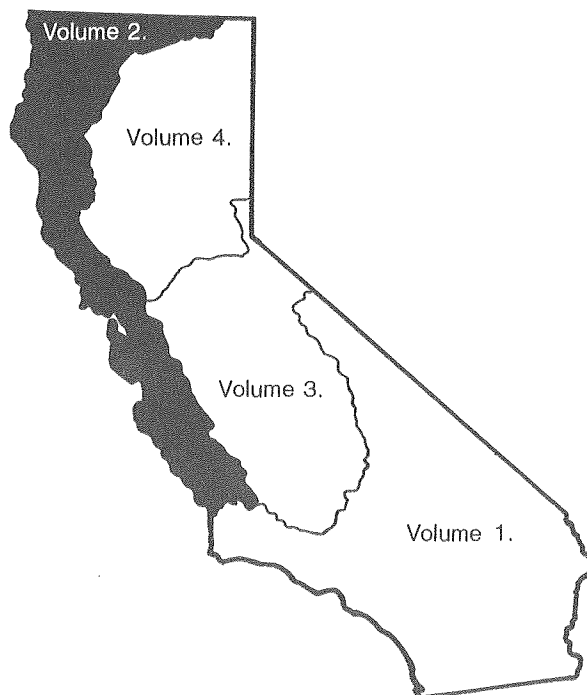


Water Resources Data California

Water Year 1983

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-83-2
Prepared in cooperation with the California Department of
Water Resources and with other agencies

CALENDAR FOR WATER YEAR 1983

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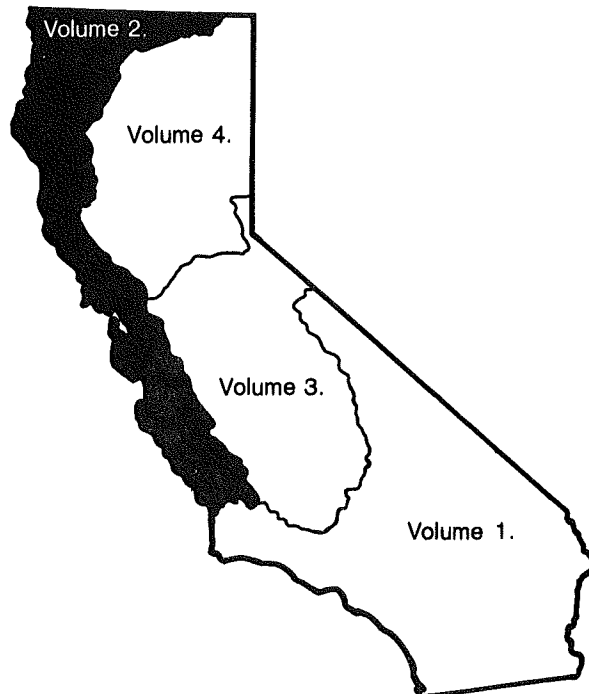
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Water Resources Data California Water Year 1983

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

by S. Anderson, K.L. Markham, V. Piro, W.F. Shelton, D.A. Grillo



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-83-2
Prepared in cooperation with the California Department of
Water Resources and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, SECRETARY

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For information on the water program in California write to
District Chief, Water Resources Division
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Sacramento, California 95825

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 4 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

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 Timothy J. Durbin, District Chief, California.

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

16. Abstract (Limit: 200 words)

Water resources data for the 1983 water year for California consists of records of stage, discharge, and water quality of streams; stage and contents in lakes and reservoirs; and water levels and water quality in wells. Volume 2 contains discharge records for 145 gaging stations; stage and contents for 19 lakes and reservoirs; water quality for 17 stations; water levels for 67 observation wells. Also included are 2 low-flow partial-record stations and 18 water-quality partial-record stations. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in California.

17. Document Analysis. a. Descriptors *California, *Hydrologic data, *Surface water, *Water quality, *Ground water, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediment, Water temperatures, Sampling sites, Water levels, Water analyses			
b. Identifiers/Open-Ended Terms			
c. COSATI Field/Group			
18. Availability Statement No restriction on distribution. This report may be purchased from National Technical Information Service Springfield, VA 22161		19. Security Class (This Report) Unclassified	21. No. of Pages 431
		20. Security Class (This Page) Unclassified	22. Price

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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;
(sc), specific conductance; (t), water temperature; and (s), sediment]

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WATER RESOURCES DATA FOR CALIFORNIA, 1983

Volume 2

INTRODUCTION

Water-resources data for the 1983 water year for California consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and records of water levels in selected observation wells. Records for a few pertinent streamflow and water-quality stations in bordering States are also included. These data, a contribution to the National Water Data System, were collected by the Geological Survey and cooperating local, State, and Federal agencies in California.

Records of discharge or stage of streams and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface-Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, Virginia, 22304.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released, either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published together as an official Survey report on a State-boundary basis. These official Survey reports carry 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 report is identified as "U.S. Geological Survey Water-Data Report CA-83-2." For archiving and general distribution, the reports for water years 1971-74 are also identified as water-data reports. Water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (916) 484-4606.

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, Paul E. Lanferman, 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, Ray Thompson, Director.
Marin Municipal Water District, Verne M. Spangenberg, General Manager.
Mendocino County, Division of Environmental Health, Gerald Davis, Director
Monterey County Flood Control and Water Conservation District, Robert L. Binder, Assistant District Engineer.
Napa County Flood Control and Water Conservation District, Harry D. Hamilton, District Engineer.
Pacheco Pass Water District, Patricia A. Clay, Secretary-Treasurer.
San Benito County Water Conservation and Flood Control District, Ralph G. Towle, 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, City of, Morris L. Allen, Director.
Santa Cruz County Flood Control and Water Conservation District, D. A. Porath, District Engineer.
Sonoma County Planning Department, Michael J. Cale, Planner.
Sonoma County Water Agency, Robert F. Beach, General Manager.

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SUMMARY OF HYDROLOGIC CONDITIONS

The 1983 water year was one of the wettest recorded in California. Rainfall exceeded 200 percent of normal which makes it one of the wettest years of the century. In 1983, an unusual occurrence known as the El Nino/Southern Oscillation caused rises in the water temperature of the ocean surface and major reversals in wind patterns near the Equator. The high-pressure ridge near the Equator was intensified while the low-pressure system over the Gulf of Alaska became extremely low. As a result, climatological changes occurred and the South American coast received record rainfall and had ocean temperatures of 30°C. Severe storms on the central California coast resulted from the fast movement of air and intensified jet stream caused by the El Nino/Southern Oscillation.

In addition to the wind, tide, and wave damages along the coast, high tides and storm runoff caused flooding in the low-lying areas surrounding the San Francisco Bay. The town of Alviso at the south end of the bay was inundated with 10 ft of floodwater and 5,000 residents were evacuated from their homes. Extensive damage to waterfront facilities also occurred along the north and central coasts. For the first time since 1951, the Golden Gate Bridge at the entrance to San Francisco Bay was closed when 70 mi/h winds caused the structure to sway as much as 5 ft. Along the coast in Monterey County, numerous slides caused the closure of State Highway 1 and extensive damage occurred near Hurricane Point, south of Carmel. All but 2 of the 16 counties in the coastal area were declared national disaster areas by April 1983.

Surface Water

Runoff was greater than normal during the 1983 water year for the area included in this volume and averaged 274 percent of the median runoff for water years 1951-80. Runoff at 10 representative gaging stations for which long-term records are available ranged from minimums of 135 percent of the median for Smith River near Crescent City in the northern coastal area and 162 percent for Arroyo Grande at Arroyo Grande in the southern coastal area to a maximum of 560 percent for Arroyo Seco near Soledad in the Salinas Valley (fig. 1).

Precipitation was greater than normal for the 1983 water year. Divisional data (data from similar meteorological areas) indicate that precipitation was 52 percent greater than normal in the north coastal area and 80 percent greater than normal in the central coastal area. A new lake was formed in the Mattole River basin south of Eureka during April when a landslide formed a dam 0.25 mi long, 300 ft wide, and 40 ft deep. Precipitation recorded downstream at Honeydew was 147 inches.

There were no peaks of discharge for the period of record on the major streams of the coastal area despite the record annual precipitation. This is attributed to the storms moving quickly over the area during 8 months instead of the normal 5 to 6 months. Flood stages were reached at only two stations on the north coast, once during December and January.

The total contents in the 10 major reservoirs of northern and central California were 134 percent of average at the start of the year, decreased to 103 percent prior to the late spring runoff in May, and then increased to 137 percent of average at the end of the year.

Ground Water

The geography and geology of California are sufficiently complex that a summary of ground-water conditions in the State is difficult. Descriptions of conditions in specific basins and valleys apply only to those areas and cannot be transferred to other areas.

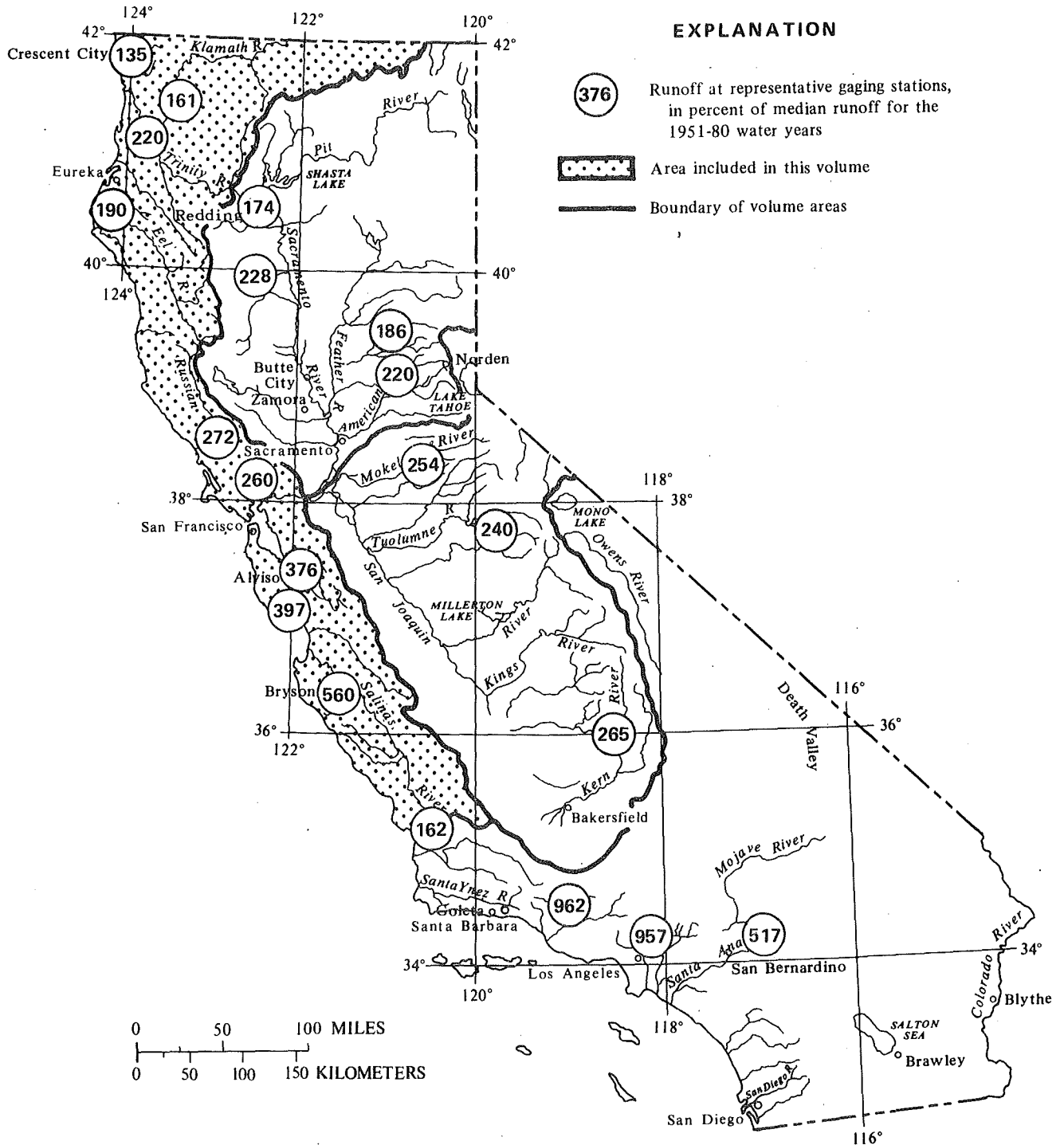


FIGURE 1. — Runoff for the 1983 water year.

Ground-water levels fluctuate in response to a variety of stresses and changes in stress. Short- and long-term climatic conditions can lead to changes in natural recharge and discharge. Ground-water pumping also can cause changes in ground-water levels.

Water levels along California's central and northern coastal areas continued the seasonal pattern established in previous years. Water levels showed little change from recent years.

Water Quality

Water samples collected at the seven NASQAN stations and one Hydrologic Benchmark station reported in this volume were analyzed for water-quality constituents during the 1983 water year. Dissolved-solids concentrations generally increased slightly from the previous year and were largest at Pajaro River near Chittenden, where the median concentration was 763 mg/L. The smallest concentration was in water sampled at Smith River near Crescent City, where the median concentration was 60 mg/L. Concentrations of water-quality constituents at all stations were less than maximum levels recommended by the U.S. Environmental Protection Agency.

The largest density of fecal-coliform and fecal-streptococci bacteria in water sampled from Pajaro River near Chittenden ranged from 400 to K17,000 col/100 mL. These densities are greater than the 1982 water year ranges of 203 to 5,100 col/100 mL and 228 to greater than 100,000 col/100 mL.

Sediment

Suspended-sediment discharge and concentrations were monitored daily at 11 stations and periodically at 22 stations in the area included in this volume. These stations are as far north as Crescent City and as far south as Bryson; the distance from the coast varies from less than 0.5 mi to about 75 mi. The large variation in precipitation and drainage-basin characteristics results in significant differences in sediment-discharge rates and concentrations.

Sediment discharge was above normal during the 1983 water year, as indicated by comparison with the 1973-82 mean sediment discharge at three of the daily stations. Annual sediment discharge was 245 percent of the mean for Russian River near Guerneville; 166 percent for Redwood Creek near Blue Lake; and 134 percent for Redwood Creek at Orick.

During the 1983 water year, sediment discharge for the 11 stations monitored daily ranged from 15,400 ton/yr for Supply Creek at Hoopa to 3.08 million ton/yr for Russian River near Guerneville. Annual sediment discharge per square mile of drainage area ranged from a minimum of 389 ton/mi² for Trinity River near Douglas City to a maximum of 16,600 ton/mi² for Cull Creek near Castro Valley.

Runoff resulting from major storms from mid-November to March along the northern coast and from mid-December to mid-March along the central coast transported the largest percentage of the sediment during the year. Maximum sediment discharge ranged from 3,240 ton/d (21 percent of the annual total) for Supply Creek at Hoopa to 273,000 ton/d (9 percent of annual total) for Russian River near Guerneville. Maximum daily concentrations ranged from 613 mg/L for Trinity River near Douglas City to 14,900 mg/L for Cull Creek near Castro Valley.

Monthly and annual bedload discharge totals also were published for nine of the stations monitored daily. The percentage of annual bedload discharge to total sediment discharge (suspended plus bedload) ranged from 2 percent for San Lorenzo Creek near Castro Valley to 24 percent for Supply Creek at Hoopa.

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

DEFINITION OF TERMS

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

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

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 \pm 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 \pm 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 \pm 0.5°C on KF Streptococcus 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 microorganisms, 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 60°C for zooplankton and 105°C for 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.

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 only 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.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. 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 judge when the results should be reported as "total in bottom 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).

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic meters. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimeter from 1 square kilometer.

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 salt water.

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.

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 is that material in a representative water sample which passes through a 0.45-micrometer 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-micrometer membrane filter will be identified and announced at a later date.

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

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

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 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 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

$$I = I_0 e^{-\lambda L},$$

where I_0 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

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_0}.$$

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, $\mu\text{g/g}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L, $\mu\text{g/L}$) 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 mg/L 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.

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.

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

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in chemically dispersed distilled water.

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.

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 are microorganisms attached to and growing upon 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 plants and animals. 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 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.

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.

Plankton--Continued

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/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/mL of sample.

Zooplankton compose 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/(m².time) for periphyton and macrophytes and mg C/(m³.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 than 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 O₂/(m².time) for periphyton and macrophytes and mg O₂/(m³.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.

Pseudomonas aeruginosa is a motile, gram-negative, rod-shaped bacterium that excretes a water-soluble, greenish, fluorescent pigment. The bacterium is noted for its aerobic, nutritional versatility, utilizing more than one hundred organic compounds as its sole source of carbon and energy, but can be an anaerobe in the presence of nitrate, reducing it to either nitrite, ammonia, or free nitrogen. P. aeruginosa is a pathogen of humans and animals and has been suggested as an indicator or sewage contamination because the human intestinal tract appears to be the major reservoir from which this bacterium reaches water environments. Its sanitary significance in surface waters is primarily related to its association with outer-ear infections of swimmers.

Sediment is solid material that is derived mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemicals 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.

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.

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

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 0.09 m above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

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 weight, or volume, that passes a section in a given time. It is computed by multiplying discharge times milligrams per liter times 0.0027.

Suspended-sediment load (tons per day) is the quantity of suspended sediment passing a section in a specified period.

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 weight, that passes a section in a given time.

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 derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of water to conduct an electrical current and is expressed in micromhos 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 concentration in water. Commonly, dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even 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 emerged or submerged 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."

Suspended total--Continued

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.....Insects
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....Hexagenia
Species.....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.

Tons per acre-foot indicates the dry weight 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 day.

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 mg/L 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 (see also p. 26).

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.

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

DOWNSTREAM ORDER AND STATION NUMBER

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 a first-rank, second-rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indentation in a list of stations in the front of the report. Each indentation represents one rank. This downstream order and system of indentation shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each surface-water station, water-quality station, and partial-record station has been assigned a station number. These are in the same downstream order as used in this report. In assigning station numbers, no distinction is made between partial-record and continuous-record stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging or partial-record stations have the same number as the gaging or partial-record station. Gaps are left between the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 11467000, which appears just to the left of the station name, includes the 2-digit number "11" plus the 6-digit downstream order number "467000". In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records for California are in Part 10 (The Great Basin), and Part 11 (Pacific slope basins in California). All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream-order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well- and miscellaneous-site number system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 2.

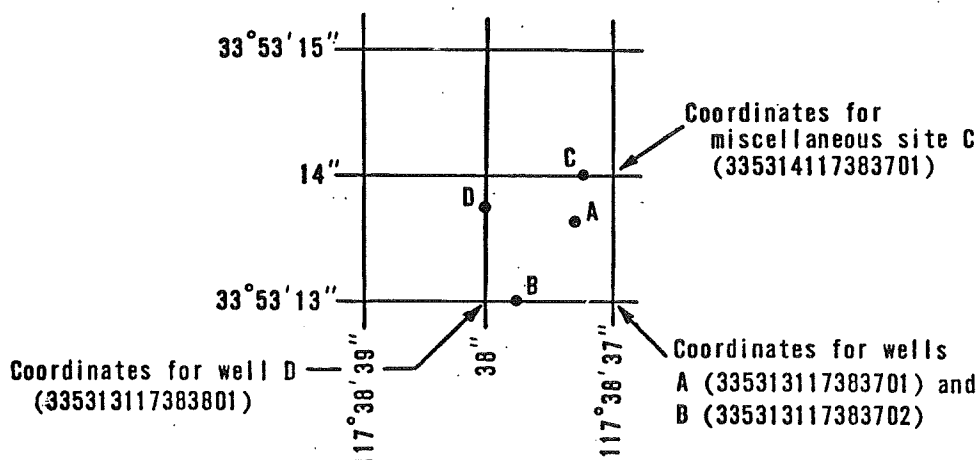


FIGURE 2.--System for numbering wells and miscellaneous sites (latitude and longitude)

Local well numbers

Wells and springs in California are assigned numbers according to their location on the rectangular system for the subdivision of public land. For example, in the number 005S/010E-22G01 M, the part of the number preceding the slash indicates the township (T.5 S.) and the number between the slash and hyphen indicates the range (R.10 E.); the digits following the hyphen indicate the section (sec.22); the letter following the section number indicates the 40-acre subdivision of the section. Within each 40-acre tract, the wells are numbered serially, as indicated by the final digit. The final letter, separated from the rest of the number by a space, indicates the base line and meridian. Base-line and meridian designations are as follows: H, Humboldt, M, Mount Diablo; S, San Bernardino. See figure 3.

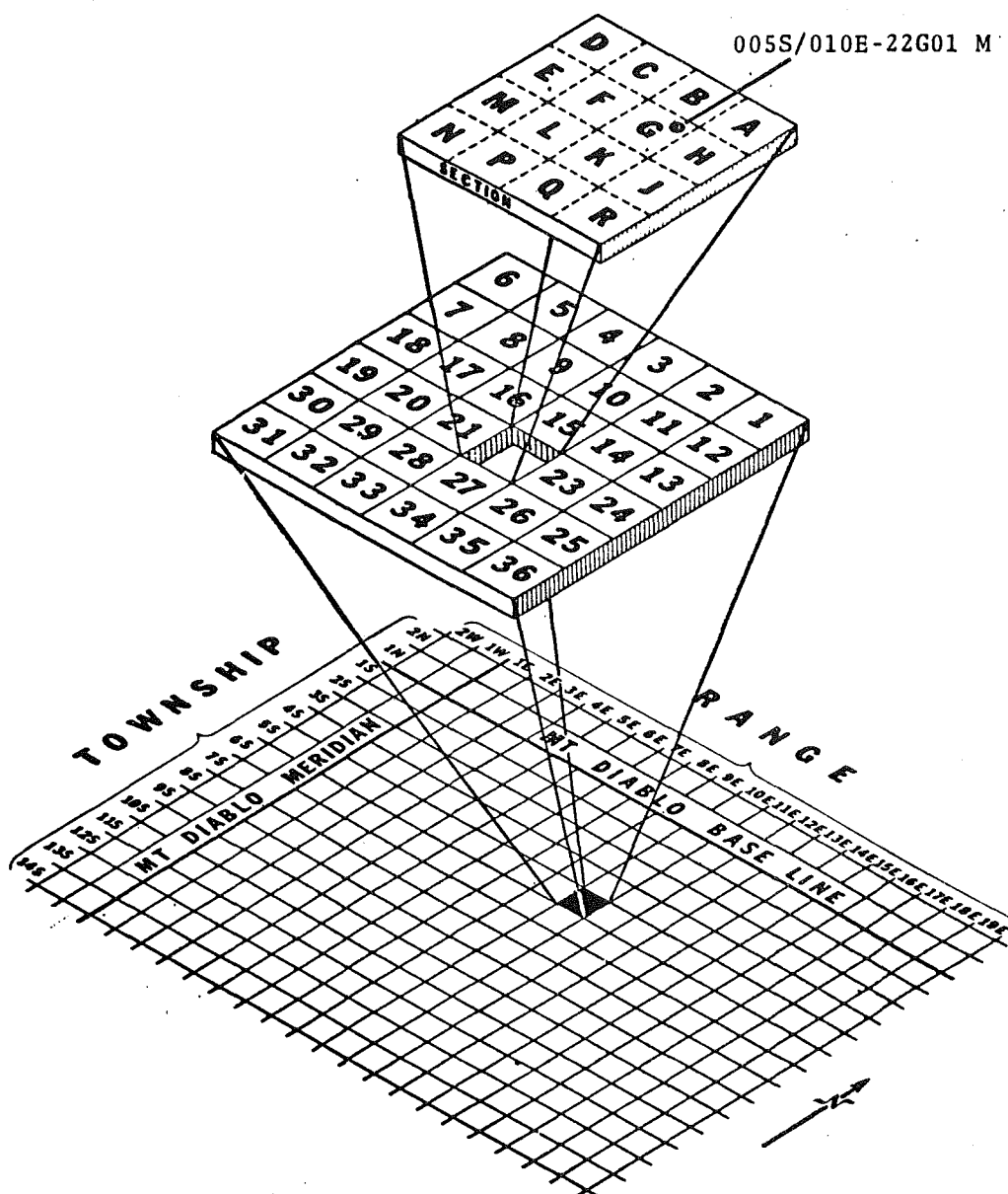


FIGURE 3.--California well-numbering system.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped basin. Stations in this network are listed below:

Volume 2:

11475560 Elder Creek near Branscomb, CA

Volume 3:

11264500 Merced River at Happy Isles Bridge, near Yosemite, CA

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on the river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality. Stations in this network are listed below:

Volume 1:

10254670 Alamo River at Drop No. 3, near Calipatria, CA
10254970 New River at International Boundary, at Calexico, CA
10261500 Mojave River at lower narrows, near Victorville, CA
10277400 Owens River below Tinemaha Reservoir, near Big Pine, CA
11042000 San Luis River at Oceanside, CA
11074000 Santa Ana River below Prado Dam, CA
11103010 Los Angeles River at Willow Street Bridge, at Long Beach, CA
11108500 Santa Clara River at Los Angeles-Ventura County Line, CA

Volume 2:

11152300 Salinas River near Chualar, CA
11159000 Pajaro River at Chittenden, CA
11458000 Napa River near Napa, CA
11467000 Russian River near Guerneville, CA
11477000 Eel River at Scotia, CA
11530500 Klamath River near Klamath, CA
11532500 Smith River near Crescent City, CA

Volume 3:

11187000 Kern River at Kernville, CA
11218500 Kings River below North Fork, near Trimmer, CA
11303500 San Joaquin River near Vernalis, CA
11325500 Mokelumne River at Woodbridge, CA

National stream-quality accounting network (continued)Volume 4:

10356500 Susan River at Susanville, CA
11370500 Sacramento River at Keswick, CA
11447650 Sacramento River at Freeport, CA

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in areas where contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

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

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams and canals, and stage and contents of lakes and reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily readings on a nonrecording gage or from a water-stage recorder that gives a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in the U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

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

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

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

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

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

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

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharges is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATIONS" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published, along with the current records, in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge are affected by the revision, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only the peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum of 1929, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page 10.

Information pertaining to the accuracy of the discharge records, and to conditions that affect the natural flow at the gaging station, is given under "REMARKS"; for reservoir stations information on the dam forming in the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is also given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance.

Under "EXTREMES" are given: First, the extremes for the period of record; second, information available outside the period of record; and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest-stage gage, obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR CURRENT YEAR; if they are, all independent peaks (including the maximum for the year) above the selected base, with the time of occurrence and corresponding gage heights, are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively for the month. Discharge for the month also may

be expressed in acre-feet (line headed "AC-FT"). In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

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

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

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

Accuracy of field data and computed results

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

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

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft³/s; to tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures above 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation by storage, increase or decrease due to artificial causes, or to other factors. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as observations of water temperatures, discharge measurements, gage-height records, and rating tables, is on file in the District Office. Also, most gaging-station records are available in computer-usable form and many statistical analyses have been made. Information on the availability of unpublished data or statistical analyses may be obtained from the District Office.

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

Records of discharge collected by agencies other than the Geological Survey

Records of discharge not published by the Geological Survey have been collected at numerous sites by many other Federal, State, County, City, and local agencies and by private organizations. A listing of stream-gaging stations and the agencies operating them is published in California Department of Water Resources Bulletin 230-81, "Index to Sources of Hydrologic Data." The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of such sites. Information on records at specific sites can be obtained upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The water-quality records are given immediately following discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); instrumentation; general remarks; extremes for the period of daily record; and extremes for the current year.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations, listed on a following page.

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.

Chemical-quality data published in this report are considered to be the most representative values 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 the 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 time of 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, minimum, and mean 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 District Office.

Ground-water quality normally does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately defines ground-water quality at a given site.

pH

At some stations, pH is measured on a continual basis. The results are reported as maximum, minimum, and mean values for each day and month. The mean pH values reported were computed from the pH values recorded by the monitor and is equal to the negative logarithm of the geometric mean of the hydrogen-ion activity.

Water temperature

Water temperatures are measured at most of 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 daily 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 continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and month. Water temperatures taken at the time of discharge measurements are on file in the district office. They will be used, with all other temperature data for reports such as the open-file reports by subregion, "Water Temperature of California Streams, 1970."

Sediment

Suspended-sediment concentration and particle-size distribution data are determined from samples collected with depth-integrating samplers at one or more verticals across a measuring cross-section. The concentration data are then combined with water discharge data to compute suspended-sediment discharge. Samples of surface bed material are also collected and the particle-size distribution of these samples are published along with the suspended-sediment data. The sampling and computational methods used are in accordance with those described in the U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapters C1 and C3.

Sediment samples are generally taken on a daily or every other day basis at stations where a daily sediment record is published. 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 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 was computed by the subdivided-day method. For periods when no samples were collected, daily loads 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 sediment and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, estimates of bedload and total-sediment discharge are included for some stations. Computations of monthly bedload discharges are based on the relation between instantaneous water discharge and corresponding bedload discharge for the station. Values of bedload discharge used in defining this relation are based on samples obtained by use of the Helley-Smith bedload sampler or by modified-Einstein or Meyer-Peter Muller computation procedures. Application of the bedload-transport relation at a station was made on a daily basis or subdivided-day basis. The Helley-Smith sampler is designed to collect a time-weighted sample for the sediment moving within 0.25 ft (0.076 m) of the stream-bed. Sediment moving in this portion of the flow cannot be sampled with standard suspended-sediment samplers. Calibration of the Helley-Smith sampler has not been completed, and a trap efficiency of 1.0 has been assumed applicable to this device. Error sources in the theoretical methods, based on analysis of bed-material characteristics, channel geometry, and associated hydraulic factors, are also undefined. In consequence, figures of bedload discharge must be used with caution. They are estimates, at best, and are subject to revision.

Turbidity

At some stations samples for the determination of turbidity were collected at the same frequency as samples collected for determination of suspended sediment. Turbidity, measured in Nephelometric turbidity units (NTU), is shown in relation to the concentration of sediment in the simultaneously collected sample.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water-level data from a basic national network of observation wells are published herein. These water-level measurements are intended to provide a sampling and historical record of water-level changes in the Nation's most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on the grid system of latitude and longitude as shown in figure 2, and (2) a local number that is provided for continuity with older reports and for other use as dictated by local needs (fig. 3).

Measurements are made in many types of wells under various conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well insure that measurements at a well are of consistent accuracy and reliability.

Water-level measurements in this report are given in feet with reference to either National Geodetic Vertical Datum of 1929 (NGVD) or land-surface datum (lsd). National Geodetic Vertical Datum is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum referred to National Geodetic Vertical Datum is given in the well description. The height of the measuring point (MP above or below land-surface datum), if known, is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

In this report basin names and numbers, for example Salinas Valley basin (3-4), are from "California's Ground Water," California Department of Water Resources Bulletin No. 118, 1975, 135 p.

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing 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) is on 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, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering 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 the 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.
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- 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.
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- 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.
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11141150 ARROYO GRANDE ABOVE PHOENIX CREEK, NEAR ARROYO GRANDE, CA

LOCATION.--Lat 35°11'03", long 120°26'11", in Arroyo Grande Grant, San Luis Obispo County, Hydrologic Unit 18060006, on right bank at county road bridge 100 ft upstream from Phoenix Creek, 8.8 mi northeast of Arroyo Grande.

DRAINAGE AREA.--13.5 mi².

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 550 ft, from topographic map.

REMARKS.--Records fair. No regulation or diversion above station except for small stock ponds.

AVERAGE DISCHARGE.--16 years, 3.20 ft³/s, 2,320 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft³/s Jan. 25, 1969, gage height, 6.83 ft in gage well, 6.57 ft from floodmarks, from rating curve extended above 350 ft³/s on basis of slope-area measurement of maximum flow, maximum gage height, 8.29 ft Apr. 4, 1978; minimum daily discharge, 0.12 ft³/s Sept. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 40 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	0515	170	5.91	Feb. 13	0030	108	5.51
Dec. 22	1530	249	6.32	Mar. 1	0130	*401	6.96
Jan. 27	Unknown	339	6.72	Apr. 18	1115	54	5.06
Feb. 8	0030	108	5.51	Apr. 21	0130	205	6.10

Minimum daily, 0.84 ft³/s Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.99	2.2	6.7	2.8	13	112	14	7.4	5.7	4.0	2.4	1.8
2	.94	2.1	3.3	2.7	16	57	14	6.3	6.1	3.9	2.4	1.8
3	.92	2.1	2.7	2.6	14	30	14	7.3	5.9	3.6	2.3	1.8
4	.93	2.1	2.5	2.5	12	27	13	7.1	5.6	3.4	2.3	1.7
5	.93	2.1	2.4	2.5	12	26	13	6.7	5.6	3.1	2.2	1.7
6	.95	2.1	2.5	2.5	16	24	13	6.6	5.5	3.2	2.1	1.8
7	.92	2.1	2.2	2.4	16	23	13	6.5	5.3	3.0	2.1	1.8
8	.84	2.1	2.2	2.4	35	23	13	6.2	5.5	3.0	2.0	1.8
9	.84	5.0	2.1	2.4	19	22	12	6.1	5.1	3.0	2.1	1.7
10	.86	4.2	2.1	2.4	18	15	12	5.9	4.9	3.0	2.1	1.6
11	.86	2.0	2.2	2.4	16	14	12	5.8	4.5	3.1	2.1	1.6
12	.87	1.8	2.2	2.4	37	12	11	5.7	4.4	3.0	2.0	1.4
13	.90	1.8	2.0	2.4	29	16	11	5.6	3.9	2.9	1.9	1.4
14	.87	1.8	1.9	2.6	13	14	11	5.5	3.5	2.8	2.0	1.1
15	.93	1.7	2.0	2.3	9.2	13	10	5.5	3.5	2.8	1.9	.99
16	.94	1.8	2.0	2.3	7.2	15	10	5.6	3.3	2.8	1.8	1.0
17	.90	1.7	2.0	2.3	6.4	17	10	5.6	3.3	2.7	1.8	1.0
18	.90	4.0	2.0	2.5	6.7	20	25	5.5	3.3	2.7	2.0	.93
19	.94	4.2	2.0	4.3	5.0	22	15	5.6	3.3	2.6	2.6	.88
20	.93	2.8	2.0	3.7	3.7	22	30	5.5	3.3	2.5	2.2	.95
21	.96	2.8	2.1	3.3	3.3	24	50	5.4	3.3	2.4	2.2	1.0
22	.91	2.9	106	23	3.1	22	7.4	5.4	3.3	2.5	2.1	1.1
23	.91	2.9	24	14	3.1	24	6.7	5.4	3.4	2.5	2.1	1.1
24	1.0	2.8	5.3	22	2.8	22	7.8	5.7	3.5	2.6	2.1	1.1
25	1.1	2.8	4.1	13	5.8	16	6.0	5.4	3.5	2.5	2.0	1.2
26	2.7	2.8	3.5	11	15	17	5.6	5.4	3.5	2.5	1.9	1.1
27	2.1	2.8	3.3	40	24	15	5.3	5.5	3.5	2.4	1.9	1.1
28	2.0	2.9	3.1	25	19	16	6.8	5.5	3.5	2.4	1.9	1.1
29	2.0	11	3.0	17	---	16	6.5	5.8	3.9	2.4	1.8	1.2
30	3.7	59	3.0	14	---	16	6.4	5.8	3.9	2.4	2.0	1.4
31	2.5	---	2.8	13	---	15	---	5.7	---	2.4	1.9	---
TOTAL	38.04	142.4	209.2	247.7	380.3	727	384.5	183.0	126.8	88.1	64.2	40.15
MEAN	1.23	4.75	6.75	7.99	13.6	23.5	12.8	5.90	4.23	2.84	2.07	1.34
MAX	3.7	59	106	40	37	112	50	7.4	6.1	4.0	2.6	1.8
MIN	.84	1.7	1.9	2.3	2.8	12	5.3	5.4	3.3	2.4	1.8	.88
AC-FT	75	282	415	491	754	1440	763	363	252	175	127	80
CAL YR 1982	TOTAL	1473.98	MEAN	4.04	MAX	109	MIN	.50	AC-FT	2920		
WTR YR 1983	TOTAL	2631.39	MEAN	7.21	MAX	112	MIN	.84	AC-FT	5220		

ARROYO GRANDE BASIN

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CA

LOCATION.--Lat 35°13'48", long 120°28'22", in SE 1/4 NE 1/4 sec.16, T.31 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060006, on right bank 0.7 mi upstream from small right-bank tributary, 3.2 mi upstream from mouth, and 9.2 mi northeast of Arroyo Grande.

DRAINAGE AREA.--21.6 mi².

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 540 ft, from topographic map.

REMARKS.--Records fair. Small diversions above station for domestic use.

AVERAGE DISCHARGE.--16 years, 12.2 ft³/s, 8,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft³/s Jan. 25, 1969, gage height, 9.26 ft in gage well, 10.8 ft from floodmarks, from rating curve extended above 300 ft³/s on basis of slope-area measurement of maximum flow; maximum gage height, 9.62 ft Mar. 1, 1983; minimum daily discharge, 0.30 ft³/s Aug. 1, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (revised) and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	0630	450	7.06	Feb. 13	0015	460	7.10
Dec. 22	1645	1,250	9.32	Mar. 1	0145	*1,390	9.62
Jan. 22	1945	323	6.54	Mar. 18	1515	247	7.19
Jan. 24	0630	328	6.56	Mar. 24	0045	274	7.28
Jan. 27	0545	289	6.38	Apr. 21	Unknown	Unknown	Unknown
Feb. 7	2330	406	6.89				

Minimum daily, 2.2 ft³/s Oct. 8, 10, 14, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	3.2	32	12	52	600	54	120	27	16	12	8.9
2	2.3	3.0	19	12	59	350	53	88	26	16	12	8.4
3	2.4	3.0	14	11	57	200	52	76	26	16	12	7.5
4	2.4	2.8	12	11	53	150	52	69	25	16	12	7.5
5	2.4	2.9	10	10	56	110	52	64	25	16	11	7.5
6	2.3	3.0	9.0	9.6	71	91	51	60	24	15	11	8.1
7	2.3	3.0	8.4	9.6	166	82	50	56	24	15	10	8.4
8	2.2	3.0	7.8	9.0	235	80	50	52	23	15	10	7.5
9	2.3	4.7	7.2	8.7	163	82	49	49	23	15	11	7.9
10	2.2	5.3	6.7	9.0	110	92	49	48	22	15	11	8.6
11	2.3	4.1	6.2	8.5	90	89	49	46	22	15	11	8.6
12	2.3	3.9	6.2	8.4	180	84	48	44	22	14	11	8.6
13	2.3	3.6	5.8	8.1	320	109	48	43	21	14	10	8.6
14	2.2	3.6	5.8	8.4	170	110	47	42	21	14	8.6	8.0
15	2.3	3.6	5.8	7.8	62	117	47	41	20	14	8.8	8.1
16	2.2	3.6	5.4	7.8	35	128	47	40	20	14	8.4	8.6
17	2.3	3.6	5.4	7.8	27	127	46	39	20	13	7.5	8.6
18	2.4	7.4	5.4	9.6	32	166	88	38	19	13	7.5	8.2
19	2.3	13	5.4	15	23	131	82	37	19	13	9.2	7.5
20	2.3	5.5	5.1	12	20	126	74	36	19	13	8.8	7.5
21	2.3	4.6	5.3	11	18	135	115	35	19	12	9.3	7.8
22	2.3	4.2	287	108	17	136	94	35	18	12	9.9	8.6
23	2.3	4.2	61	65	16	148	80	34	18	13	9.2	8.3
24	2.6	4.2	30	108	15	172	92	33	18	13	9.5	7.8
25	2.6	4.2	24	56	30	110	83	32	17	13	9.3	7.5
26	4.1	4.0	20	50	72	90	73	30	17	12	9.4	7.5
27	3.2	3.9	17	197	120	72	70	30	17	12	9.4	8.1
28	3.0	4.1	16	99	78	64	83	29	17	12	8.6	9.4
29	3.0	23	15	85	---	60	87	29	17	12	8.6	9.5
30	3.9	143	14	64	---	58	90	28	17	12	9.1	12
31	3.5	---	13	56	---	54	---	27	---	12	9.3	---
TOTAL	78.9	285.2	684.9	1094.3	2347	4123	1955	1430	623	427	304.4	249.1
MEAN	2.55	9.51	22.1	35.3	83.8	133	65.2	46.1	20.8	13.8	9.82	8.30
MAX	4.1	143	287	197	320	600	115	120	27	16	12	12
MIN	2.2	2.8	5.1	7.8	15	54	46	27	17	12	7.5	7.5
AC-FT	156	566	1360	2170	4660	8180	3880	2840	1240	847	604	494

CAL YR 1982 TOTAL 4983.5 MEAN 13.7 MAX 516 MIN 2.1 AC-FT 9880
WTR YR 1983 TOTAL 13601.8 MEAN 37.4 MAX 600 MIN 2.2 AC-FT 26980

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, 0.7 mi upstream from U.S. Highway 101.

DRAINAGE AREA.--102 mi².

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 National Geodetic Vertical Datum of 1929. Prior to July 10, 1947, at datum 0.50 ft higher.

REMARKS.--Records good. 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 above station.

AVERAGE DISCHARGE.--29 years (water years 1940-68), 19.4 ft³/s, 14,060 acre-ft/yr; 15 years (water years 1969-83), 21.6 ft³/s, 15,650 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft³/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 ft³/s Mar. 1, 1983, gage height, 10.68 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,620 ft³/s Mar. 1, gage height, 10.68 ft; minimum daily, 2.2 ft³/s Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	6.9	20	23	244	2520	265	160	35	13	8.3	4.3
2	3.7	6.7	14	21	360	1900	242	147	33	13	8.4	4.0
3	3.7	6.7	12	16	289	1540	219	133	33	12	7.4	4.3
4	3.2	6.7	11	14	225	1280	204	122	32	12	7.3	5.0
5	3.5	6.5	11	14	196	926	196	117	32	11	6.9	6.4
6	2.6	6.5	10	14	318	742	183	111	31	11	6.3	6.1
7	2.5	6.4	9.6	13	684	640	167	108	28	10	6.2	4.9
8	2.2	6.8	9.6	11	1110	539	157	104	27	10	6.6	4.4
9	2.2	10	8.5	22	746	463	148	97	26	9.4	6.2	3.8
10	3.0	8.5	9.6	26	501	409	142	83	25	8.9	5.5	4.5
11	3.3	7.5	10	17	396	367	133	76	24	8.5	6.6	4.1
12	2.8	7.2	11	12	634	329	123	73	23	8.2	6.5	4.6
13	3.1	7.3	11	10	1060	373	116	74	22	7.5	5.8	3.7
14	3.0	7.2	10	9.8	598	395	110	72	21	6.7	6.9	5.0
15	4.2	7.5	10	9.7	378	325	105	70	21	7.1	6.2	4.7
16	4.1	7.5	9.9	9.8	284	323	102	69	20	9.7	5.1	5.3
17	4.8	6.9	9.8	9.6	213	360	101	66	20	9.9	6.0	5.1
18	4.7	8.7	9.4	12	211	472	158	62	20	9.6	5.7	5.7
19	5.3	9.3	9.7	24	197	427	159	60	19	8.6	9.6	6.3
20	5.3	8.0	9.7	26	167	393	147	57	18	8.4	8.6	6.0
21	4.0	7.8	10	23	153	456	198	57	18	7.5	8.2	6.6
22	4.7	8.2	59	209	134	569	159	57	18	8.4	7.4	7.5
23	4.8	8.2	30	586	132	565	140	56	17	7.6	6.6	6.3
24	4.7	7.8	13	538	134	774	152	51	17	7.5	7.5	5.2
25	5.5	7.5	10	447	216	596	139	48	16	7.6	7.5	5.0
26	7.2	7.6	9.6	321	352	506	125	47	16	7.4	5.9	5.6
27	5.9	7.6	17	1430	624	445	118	44	15	8.0	6.1	5.4
28	5.7	9.0	26	877	544	412	132	43	15	7.4	6.2	5.2
29	6.6	15	28	662	---	354	131	41	14	8.5	6.8	5.2
30	8.8	32	29	417	---	315	136	40	14	8.1	6.8	8.8
31	7.2	---	24	310	---	291	---	37	---	8.2	5.8	---
TOTAL	136.4	259.5	471.4	6133.9	11100	20006	4607	2382	670	280.7	210.9	159.0
MEAN	4.40	8.65	15.2	198	396	645	154	76.8	22.3	9.05	6.80	5.30
MAX	8.8	32	59	1430	1110	2520	265	160	35	13	9.6	8.8
MIN	2.2	6.4	8.5	9.6	132	291	101	37	14	6.7	5.1	3.7
AC-FT	271	515	935	12170	22020	39680	9140	4720	1330	557	418	315
CAL YR 1982	TOTAL	5540.0	MEAN	15.2	MAX	475	MIN	2.2	AC-FT	10990		
WTR YR 1983	TOTAL	46416.8	MEAN	128	MAX	2520	MIN	2.2	AC-FT	92070		

BIG SUR RIVER BASIN

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 mi².

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. Altitude of gage is 240 ft, from topographic map. Prior to Oct. 1, 1951, nonrecording gage at site 0.9 mi downstream at different datum.

REMARKS.--Records good except those for period of indefinite stage-discharge relationship, July 20 to Sept. 18, which is fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--33 years, 107 ft³/s, 77,520 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft³/s Jan. 5, 1978, gage height, 14.30 ft; minimum daily, 2.6 ft³/s Aug. 23, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	1700	2,420	8.02	Feb. 25	1900	1,790	7.23
Nov. 30	0345	1,360	6.80	Mar. 1	1330	2,720	8.32
Dec. 22	1445	*3,670	9.25	Mar. 13	0945	2,140	7.72
Jan. 24	0345	3,390	8.99	Apr. 28	0200	1,690	7.21
Feb. 7	2115	2,920	8.52				

Minimum daily, 18 ft³/s Nov. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	25	573	188	906	2230	497	918	133	69	44	38
2	25	22	366	172	815	2250	463	784	129	67	44	37
3	24	20	262	159	703	1940	430	683	125	64	43	37
4	24	19	203	147	621	1640	401	605	121	65	43	37
5	24	19	167	137	678	1350	375	566	116	68	43	37
6	23	18	142	129	938	1150	350	514	112	68	42	37
7	24	18	122	121	1680	1060	327	469	108	65	42	37
8	24	20	109	115	2060	917	308	433	107	63	42	37
9	24	38	99	108	1580	813	291	401	102	58	42	37
10	24	48	91	103	1250	745	274	374	98	56	41	37
11	23	34	84	98	1030	670	263	349	94	56	41	36
12	23	27	78	94	1210	609	250	330	92	54	41	36
13	22	24	74	90	1210	1250	234	311	88	52	41	36
14	21	23	69	86	1020	986	221	294	87	51	40	36
15	21	22	66	84	903	830	210	276	86	50	41	36
16	21	21	62	83	804	792	200	262	84	50	40	36
17	20	20	70	80	713	775	198	248	81	50	40	36
18	20	740	62	284	752	835	228	235	79	50	40	36
19	21	300	58	282	651	770	206	224	77	49	40	36
20	22	132	56	184	595	750	203	214	75	49	40	36
21	22	90	601	184	547	720	198	203	76	48	39	41
22	22	74	1940	1180	509	721	183	194	79	47	39	45
23	21	72	1320	1090	496	709	325	185	77	47	39	43
24	19	59	767	1980	465	761	349	179	75	47	39	41
25	32	51	550	1230	830	752	300	171	73	46	39	40
26	71	47	430	1380	920	703	268	163	70	46	38	41
27	26	50	355	2280	995	740	491	156	69	46	38	41
28	22	97	301	1700	1440	680	1390	151	70	45	38	40
29	19	417	262	1560	---	624	1010	145	71	45	38	42
30	41	986	232	1280	---	578	946	138	69	45	38	78
31	32	---	208	1070	---	537	---	134	---	44	38	---
TOTAL	782	3533	9779	17678	26321	29887	11389	10309	2723	1660	1253	1183
MEAN	25.2	118	315	570	940	964	380	333	90.8	53.5	40.4	39.4
MAX	71	986	1940	2280	2060	2250	1390	918	133	69	44	78
MIN	19	18	56	80	465	537	183	134	69	44	38	36
AC-FT	1550	7010	19400	35060	52210	59280	22590	20450	5400	3290	2490	2350
CAL YR 1982	TOTAL	73238	MEAN	201	MAX	2780	MIN	18	AC-FT	145300		
WTR YR 1983	TOTAL	116497	MEAN	319	MAX	2280	MIN	18	AC-FT	231100		

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 150 ft upstream 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 mi².

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

REVISED RECORDS.--WSP 1715: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft, from topographic map. Prior to June 1981 at site 150 ft downstream on downstream side of county road bridge.

REMARKS.--Records good. Flow regulated by Los Padres Reservoir 11 mi upstream, capacity, 3,000 acre-ft and San Clemente Reservoir 4 mi upstream, capacity, 1,600 acre-ft. Diversion from San Clemente Reservoir for municipal supply amounted to 8,910 acre-ft for the current year.

AVERAGE DISCHARGE (unadjusted).--26 years, 98.2 ft³/s, 71,150 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,380 ft³/s Feb. 28, 1983, 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 ft³/s by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,380 ft³/s Feb. 28, gage height, 11.49 ft; minimum daily, 1.3 ft³/s Oct. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	15	717	225	997	6260	950	1050	183	87	13	16
2	1.6	11	400	201	871	5970	875	930	178	85	11	16
3	1.7	8.9	265	181	734	4420	810	830	173	83	8.6	15
4	1.7	7.0	197	165	625	3180	738	730	168	79	8.4	15
5	1.9	6.2	159	153	589	2450	696	640	163	75	8.1	14
6	1.8	5.7	134	141	670	2000	638	590	162	70	7.8	12
7	1.8	5.5	116	130	1000	1950	604	540	152	68	7.2	12
8	1.9	6.0	103	123	2110	1490	559	510	146	68	6.8	12
9	1.7	13	94	114	1430	1230	528	480	146	65	6.8	12
10	1.5	29	84	106	1150	1180	511	450	142	61	7.8	12
11	1.4	23	77	101	972	1120	501	430	138	57	7.1	11
12	1.3	17	72	95	983	1010	490	405	138	52	7.4	9.7
13	1.3	13	69	90	1070	1630	456	385	134	48	7.8	8.2
14	1.4	11	63	85	895	1430	436	365	132	45	8.1	7.2
15	1.4	9.4	61	79	779	1200	420	350	132	43	7.7	6.9
16	1.5	9.6	58	78	696	1190	405	330	132	43	8.2	7.0
17	1.5	8.8	59	78	618	1250	404	320	123	44	8.7	7.2
18	1.5	338	57	119	704	1440	403	305	118	44	14	7.2
19	1.5	382	55	267	619	1330	430	295	113	44	24	6.7
20	1.6	119	54	149	551	1270	400	285	111	43	26	6.8
21	1.6	78	148	126	501	1250	390	270	109	41	26	6.6
22	1.7	59	2910	979	459	1190	370	260	109	40	25	6.8
23	1.6	55	2200	1170	458	1190	580	245	109	40	23	7.1
24	1.5	46	1110	3060	543	1500	670	238	103	41	19	6.9
25	2.2	40	759	1620	699	1750	590	230	98	44	15	7.1
26	3.1	37	568	2010	917	1520	540	220	91	40	20	7.7
27	2.0	33	450	4120	1400	1430	1300	215	91	39	18	8.1
28	1.8	45	376	2260	2780	1320	2700	210	97	37	17	8.1
29	1.7	83	327	2290	---	1190	1580	205	94	23	16	11
30	3.5	914	289	1550	---	1110	1200	200	88	15	16	36
31	15	---	254	1220	---	1040	---	195	---	13	15	---
TOTAL	67.4	2428.1	12285	23085	25820	57490	21174	12708	3873	1577	414.5	319.3
MEAN	2.17	80.9	396	745	922	1855	706	410	129	50.9	13.4	10.6
MAX	15	914	2910	4120	2780	6260	2700	1050	183	87	26	36
MIN	1.3	5.5	54	78	458	1010	370	195	88	13	6.8	6.6
AC-FT	134	4820	24370	45790	51210	114000	42000	25210	7680	3130	822	633
CAL YR 1982	TOTAL	73032.6	MEAN	200	MAX	3430	MIN	1.2	AC-FT	144900		
WTR YR 1983	TOTAL	161241.3	MEAN	442	MAX	6260	MIN	1.3	AC-FT	319800		

CARMEL RIVER BASIN

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 45 ft, from topographic map.

REMARKS.--Records poor. Flow regulated by Los Padres Reservoir, capacity, 3,000 acre-ft and San Clemente Reservoir, capacity, 1,600 acre-ft. Diversion from San Clemente Reservoir for municipal supply amounted to 8,910 acre-ft for the current year.

AVERAGE DISCHARGE (unadjusted).--21 years, 125 ft³/s, 90,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,590 ft³/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.--Maximum discharge, 9,590 ft³/s Feb. 28, gage height, 18.22 ft; no flow many days during October and November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	0	692	290	1350	8000	960	1250	220	75	21	11
2	.28	0	393	255	1200	6800	880	1050	210	73	19	10
3	.01	0	300	230	1050	4800	790	962	195	71	17	9.7
4	0	0	230	205	930	3300	700	864	188	73	15	8.4
5	0	0	190	190	910	3200	650	824	182	75	12	7.1
6	0	0	165	175	1100	2500	600	771	175	73	11	5.6
7	0	0	140	165	1500	2100	570	705	168	73	10	4.9
8	0	0	125	155	1800	1500	540	677	164	67	10	4.4
9	0	0	110	145	1650	1410	500	632	155	71	9.9	4.2
10	0	0	105	135	1310	1530	480	595	148	59	9.6	3.7
11	0	0	97	127	1200	1640	470	583	145	55	10	3.2
12	0	0	88	120	1140	1540	450	563	138	55	11	2.6
13	0	0	83	115	1250	1990	430	540	130	52	11	2.1
14	0	0	78	105	1100	1830	410	480	127	51	12	1.8
15	0	0	75	100	998	1610	400	472	122	45	11	1.6
16	0	0	73	98	925	1650	385	460	118	46	12	1.4
17	0	0	70	100	840	1760	380	456	114	45	13	1.2
18	0	114	69	125	952	1900	410	428	110	45	13	1.3
19	0	587	68	290	850	1550	400	412	103	42	15	1.4
20	0	202	65	197	763	1400	380	397	101	45	18	1.2
21	0	125	205	188	699	1370	370	376	100	44	18	1.2
22	0	87	3100	880	656	1340	360	361	99	40	17	1.2
23	0	73	2800	1460	642	1320	427	354	100	40	15	1.2
24	0	68	1500	3210	791	1700	608	335	92	41	13	1.2
25	0	62	1000	1580	870	2000	594	329	87	42	11	1.2
26	0	60	800	1830	1240	1850	511	311	83	38	14	1.2
27	0	53	560	5060	1670	1650	545	292	81	35	13	1.2
28	0	66	490	2190	3500	1400	1730	287	79	36	12	1.5
29	0	119	440	2570	---	1250	1420	270	78	33	11	2.2
30	0	863	370	1950	---	1150	1370	250	76	28	11	15
31	0	---	320	1550	---	1050	---	235	---	24	11	---
TOTAL	0.84	2479	14846	25790	32886	68090	18720	16521	3888	1592	406.5	113.9
MEAN	.027	82.6	479	832	1174	2196	624	533	130	51.4	13.1	3.80
MAX	.55	863	3100	5060	3500	8000	1730	1250	220	75	21	15
MIN	0	0	65	98	642	1050	360	235	76	24	9.6	1.2
AC-FT	1.7	4920	29450	51150	65230	135100	37130	32770	7710	3160	806	226

CAL YR 1982 TOTAL 88531.47 MEAN 243 MAX 3770 MIN 0 AC-FT 175600
WTR YR 1983 TOTAL 185333.24 MEAN 508 MAX 8000 MIN 0 AC-FT 367600

11143500 SALINAS RIVER NEAR POZO, CA

LOCATION.--Lat 35°17'55", long 120°24'10", in NE 1/4 sec.19, T.30 S., R.15 E., San Luis Obispo County, Hydrologic Unit 18060005, on right bank at downstream side of county road bridge, 1.0 mi downstream from Pozo Creek, 1.6 mi west of Pozo, and 7.4 mi upstream from Salinas Dam.

DRAINAGE AREA.--70.3 mi².

PERIOD OF RECORD.--July 1942 to September 1983 (discontinued).

REVISED RECORDS.--WSP 1565: 1943(M). WSP 2129: 1952, 1953(P), 1954(M), 1958(M), 1960(M). WDR CA-74-1: 1973.

GAGE.--Water-stage recorder. Datum of gage is 1,347.78 ft National Geodetic Vertical Datum of 1929. Prior to May 13, 1969, water-stage recorder at site 0.4 mi downstream at same datum.

REMARKS.--Records poor. No regulation or diversion above station. Water is stored in Santa Margarita Lake below station.

AVERAGE DISCHARGE.--41 years, 19.5 ft³/s, 14,130 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft³/s Jan. 25, 1969, gage height, 13.90 ft in gage well, 15.5 ft site then in use, from floodmarks, from rating curve extended above 7,100 ft³/s on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s and maximum (*) from rating curve extended above 620 ft³/s on basis of slope-area measurement of peak flow:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	0815	2,770	16.84	Feb. 8	0200	1,790	15.34
Dec. 22	1800	*5,270	19.59	Feb. 12	0515	431	12.04
Jan. 24	0915	2,880	16.98	Mar. 1	0345	3,850	18.13
Jan. 27	0500	3,560	17.81				

Minimum daily, 0.93 ft³/s Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.5	60	12	118	1570	50	141	7.6	5.0	3.1	2.3
2	.97	1.4	8.0	10	103	1140	46	108	7.0	4.9	3.0	2.3
3	.97	1.4	7.0	8.6	91	681	43	81	7.6	4.8	2.9	2.3
4	1.0	1.3	6.0	7.4	75	435	41	65	8.3	4.4	2.9	2.2
5	1.0	1.4	5.1	6.5	67	308	38	56	10	4.0	2.8	2.2
6	1.1	1.4	4.9	5.9	88	242	36	45	9.8	4.1	2.7	2.3
7	1.1	1.4	5.3	5.2	289	196	34	40	9.1	3.7	2.7	2.3
8	1.1	1.4	4.7	4.7	862	160	33	35	9.2	3.8	2.7	2.2
9	1.1	3.7	4.5	4.3	305	130	31	33	9.3	3.8	2.7	2.1
10	1.1	2.9	4.4	3.8	192	110	30	29	10	3.9	2.7	2.1
11	1.1	2.0	4.5	3.4	146	97	29	27	10	4.0	2.7	2.0
12	1.1	1.8	4.6	3.2	173	80	28	26	10	3.8	2.6	1.8
13	1.0	1.8	4.3	2.9	285	110	27	25	11	3.7	2.4	1.8
14	.93	1.8	4.4	2.7	160	87	24	24	12	3.6	2.5	1.5
15	.98	1.8	4.4	2.7	118	65	22	22	9.2	3.5	2.4	1.4
16	.95	1.8	4.4	2.7	99	110	21	21	4.0	3.5	2.3	1.3
17	1.0	1.8	4.1	2.5	84	135	20	19	5.0	3.5	2.3	1.3
18	1.0	3.5	4.1	10	77	220	68	18	5.8	3.4	2.7	1.2
19	.98	3.3	4.1	29	65	150	79	17	6.0	3.3	3.3	1.1
20	1.0	2.3	4.1	14	56	130	70	15	6.4	3.2	2.8	1.2
21	1.1	2.1	4.5	9.6	49	165	87	14	6.8	3.1	2.8	1.3
22	1.2	2.2	1570	897	44	130	58	12	6.7	3.1	2.7	1.4
23	1.2	2.2	445	594	40	150	51	11	6.6	3.2	2.7	1.4
24	1.3	2.1	101	1190	37	240	91	9.7	6.4	3.3	2.6	1.4
25	1.5	2.1	55	321	66	160	66	10	6.3	3.2	2.5	1.5
26	2.4	2.1	37	165	177	120	52	10	5.7	3.2	2.6	1.4
27	1.5	2.0	26	1860	805	90	42	9.8	5.4	3.1	2.4	1.4
28	1.3	2.0	22	541	502	82	48	9.8	5.3	3.0	2.4	1.4
29	1.2	7.7	22	476	---	70	57	9.7	5.1	3.1	2.3	1.6
30	1.8	718	18	218	---	60	157	9.3	5.0	3.1	2.6	1.8
31	1.7	---	15	147	---	53	---	8.7	---	3.0	2.4	---
TOTAL	36.68	782.2	2468.4	6560.1	5173	7476	1479	961.0	226.6	112.3	82.2	51.5
MEAN	1.18	26.1	79.6	212	185	241	49.3	31.0	7.55	3.62	2.65	1.72
MAX	2.4	718	1570	1860	862	1570	157	141	12	5.0	3.3	2.3
MIN	.93	1.3	4.1	2.5	37	53	20	8.7	4.0	3.0	2.3	1.1
AC-FT	73	1550	4900	13010	10260	14830	2930	1910	449	223	163	102
CAL YR 1982	TOTAL	12439.3	MEAN	34.2	MAX	1900	MIN	.78	AC-FT	24670		
WTR YR 1983	TOTAL	25408.98	MEAN	69.8	MAX	1860	MIN	.93	AC-FT	50400		

SALINAS RIVER BASIN

11144000 TORO CREEK NEAR POZO, CA

LOCATION.--Lat 35°19'26", long 120°25'13", in SE 1/4 sec.12, T.30 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060005, on left bank 300 ft upstream from mouth, and 3 mi northwest of Pozo.

DRAINAGE AREA.--9.56 mi².

PERIOD OF RECORD.--June 1942 to September 1969, October 1971 to September 1983 (discontinued). Prior to October 1961 low-water records only. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,312.99 ft National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1961, at site 250 ft downstream at datum 11.83 ft lower.

REMARKS.--Records poor. Small diversions above station for irrigation and stock reservoir.

AVERAGE DISCHARGE.--20 years (water years, 1962-69, 1972-83), 1.11 ft³/s, 804 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft³/s Feb. 24, 1969, gage height, 8.3 ft from floodmarks, from rating curve extended above 60 ft³/s on basis of slope-area measurements at gage heights 5.11 ft, 7.3 ft and 7.73 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 22	Unknown	*1,770	7.73	Feb. 7	2245	56	4.59
Jan. 24	0630	106	4.96	Mar. 1	0115	246	5.56
Jan. 27	0015	84	4.82				

Minimum daily, 0.07 ft³/s Nov. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.58	1.5	.97	1.9	70	3.3	5.6	2.2	2.3	.74	.36
2	.12	.53	1.0	.84	2.7	26	3.7	3.9	2.1	2.5	.81	.42
3	.41	.07	1.2	.90	2.1	16	3.7	3.5	2.2	2.5	.69	.96
4	.58	.13	.88	.89	2.1	12	3.7	3.5	2.5	2.3	.56	1.0
5	.58	.18	.84	.91	2.0	10	3.9	3.2	2.9	2.2	.57	1.1
6	.41	.18	.88	.88	2.0	8.6	3.5	3.1	2.8	2.1	.40	.87
7	.34	.23	.79	.88	6.1	7.2	3.5	3.1	2.8	2.2	.52	.60
8	.25	.35	.78	.90	8.3	5.1	3.3	3.1	2.6	2.2	.54	.78
9	.30	3.5	.75	.81	2.1	4.1	3.3	3.2	2.6	2.2	.52	.63
10	.29	1.8	.74	.71	1.4	4.2	3.1	3.1	2.9	2.0	.52	.54
11	.19	1.2	.77	.69	1.8	3.6	3.0	3.0	2.9	1.9	.56	.50
12	.28	.91	.78	.75	6.2	2.8	3.0	3.1	2.9	1.7	.64	.47
13	.35	.83	.73	.70	7.5	3.8	3.0	3.1	3.0	1.8	.40	.51
14	.46	.68	.72	.69	3.5	2.7	3.2	3.1	3.1	1.4	.39	.70
15	.41	.08	.74	.66	2.4	2.2	3.2	3.3	2.9	1.1	.35	.40
16	.59	.09	.74	.62	1.7	4.3	3.2	3.3	2.2	1.2	.34	.39
17	.49	.15	.75	.58	1.3	4.4	3.3	3.3	2.6	1.2	.32	.43
18	.28	2.1	.75	1.3	1.5	7.5	6.4	3.3	3.2	1.2	.50	.39
19	.28	1.2	.74	1.2	1.5	4.5	4.9	3.2	3.2	.83	1.2	.43
20	.28	1.2	.75	.83	1.6	4.6	4.8	3.1	3.3	.76	.58	.46
21	.37	1.2	1.5	1.0	1.7	5.8	4.4	3.2	3.5	.88	.41	.64
22	1.6	.91	66	9.7	1.6	4.3	2.7	3.4	3.6	.94	.41	.93
23	2.3	.83	23	3.3	1.6	5.1	2.8	3.3	3.6	.73	.57	.58
24	1.9	.83	4.5	20	1.6	8.4	3.0	3.3	3.7	.80	.58	.44
25	1.8	.44	2.7	2.5	2.9	5.5	2.5	3.1	3.3	.92	.58	.54
26	2.1	.18	2.2	7.1	2.1	5.3	2.5	3.1	2.9	1.1	.58	.64
27	1.5	.18	1.8	31	11	4.9	2.5	3.1	2.8	.97	.54	.85
28	1.1	.32	1.7	8.9	14	4.3	3.4	2.9	2.6	.87	.41	1.4
29	.52	2.7	1.4	9.3	---	4.2	2.9	2.9	2.5	.87	.29	1.6
30	1.1	6.3	1.2	4.3	---	4.0	4.6	3.0	2.4	.75	.28	2.0
31	.86	---	1.1	2.5	---	3.7	---	2.8	---	.80	.28	---
TOTAL	22.22	29.88	123.93	116.31	96.2	259.1	104.3	101.2	85.8	45.22	16.08	21.56
MEAN	.72	1.00	4.00	3.75	3.44	8.36	3.48	3.26	2.86	1.46	.52	.72
MAX	2.3	6.3	66	31	14	70	6.4	5.6	3.7	2.5	1.2	2.0
MIN	.12	.07	.72	.58	1.3	2.2	2.5	2.8	2.1	.73	.28	.36
AC-FT	44	59	246	231	191	514	207	201	170	90	32	43
CAL YR 1982	TOTAL	363.50	MEAN	1.00	MAX	66	MIN	.07	AC-FT	721		
WTR YR 1983	TOTAL	1021.80	MEAN	2.80	MAX	70	MIN	.07	AC-FT	2030		

11144200 SALSIPUEDES CREEK NEAR POZO, CA

LOCATION.--Lat 35°17'34", long 120°27'07", in NW 1/4 SW 1/4 sec.23, T.30 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060005, on left bank 1.9 mi upstream from mouth, and 4.4 mi west of Pozo.

DRAINAGE AREA.--5.91 mi².

PERIOD OF RECORD.--October 1969 to September 1983 (discontinued).

REVISED RECORDS.--WDR CA-72-1: 1971(P).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 1,480 ft, from topographic map.

REMARKS.--Records fair except for period of faulty or no gage-height record, Feb. 19 to July 16, which is poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--14 years, 2.64 ft³/s, 1,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s Feb. 21, 1980, gage height, 6.12 ft, from rating curve extended above 67 ft³/s on basis of slope-area measurements at gage heights 4.58 ft and 5.88 ft; no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s, and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	Unknown	976	4.94	Jan. 26	2315	313	3.05
Dec. 22	1530	1,250	5.64	Feb. 7	2200	495	3.65
Jan. 24	0545	*1,260	5.66	Mar. 1	0045	1,130	5.34

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	4.0	1.9	11	276	6.2	10	.63	.04	0	.01
2		0	2.0	1.7	14	150	5.5	8.0	.57	.03	0	.01
3		0	1.0	1.6	11	90	5.2	6.8	.52	.03	0	.01
4		0	.65	1.5	8.8	65	4.7	6.0	.48	.03	0	.01
5		0	.48	1.4	9.3	48	4.4	5.4	.43	.02	0	.01
6		0	.35	1.2	21	38	4.2	4.9	.39	.02	0	.01
7		0	.29	1.1	68	31	4.0	4.5	.37	.02	0	.01
8		0	.23	1.1	63	26	3.9	4.2	.33	.02	0	.02
9		.14	.20	1.0	25	23	3.7	3.8	.30	.02	0	.02
10		.03	.18	.92	16	17	3.6	3.5	.28	.01	0	.02
11		0	.17	.89	12	15	3.4	3.3	.25	.01	0	.01
12		0	.16	.89	50	12	3.3	3.1	.23	.01	0	.01
13		0	.16	.79	43	15	3.1	2.9	.21	.01	0	.01
14		0	.15	.79	26	12	2.9	2.8	.19	.01	0	0
15		0	.16	.79	22	9.3	2.8	2.7	.17	.01	0	0
16		0	.15	.79	19	17	2.6	2.5	.16	.01	0	0
17		0	.13	.73	18	18	2.4	2.3	.14	0	0	0
18		0	.13	5.1	20	30	18	2.2	.13	0	0	0
19		.54	.13	6.1	19	18	12	2.0	.12	0	0	0
20		.30	.11	2.4	17	19	13	1.8	.11	0	0	0
21		.12	.43	2.1	14	23	15	1.7	.10	0	0	0
22		.06	296	141	13	18	14	1.6	.09	0	0	0
23		.07	31	39	12	22	9.0	1.5	.08	0	.01	0
24		.05	11	134	13	33	12	1.4	.07	0	0	0
25		.05	6.5	27	25	25	9.0	1.2	.07	0	0	0
26		.05	4.6	38	20	18	6.3	1.1	.06	0	0	0
27		.05	3.6	107	75	12	5.4	1.0	.06	0	0	0
28		.06	3.0	32	70	10	7.5	.92	.05	0	0	0
29		1.0	2.7	26	---	8.0	6.5	.85	.05	0	0	0
30		28	2.5	16	---	7.4	14	.75	.04	0	0	0
31		---	2.2	13	---	6.5	---	.70	---	0	0	---
TOTAL	0	30.52	374.36	607.79	735.1	1112.2	207.6	95.42	6.68	0.30	0.01	0.16
MEAN	0	1.02	12.1	19.6	26.3	35.9	6.92	3.08	.22	.010	.000	.005
MAX	0	28	296	141	75	276	18	10	.63	.04	.01	.02
MIN	0	0	.11	.73	8.8	6.5	2.4	.70	.04	0	0	0
AC-FT	0	61	743	1210	1460	2210	412	189	13	.6	.02	.3
CAL YR 1982	TOTAL	1395.23	MEAN	3.82	MAX	296	MIN	0	AC-FT	2770		
WTR YR 1983	TOTAL	3170.14	MEAN	8.69	MAX	296	MIN	0	AC-FT	6290		

SALINAS RIVER BASIN

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 mi².

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 furnished 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, 1242.5 ft, Nov. 6-10, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum usable contents, 26,500 acre-ft Mar. 1, elevation, 1,305.28 ft; minimum, 18,000 acre-ft several days during October and November, elevation, 1,292.81 ft Oct. 24, 25.

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 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18400	18100	21000	23000	23500	26500	23100	23100	22900	22300	21200	20100
2	18400	18100	21200	23000	23500	25400	22900	23200	22900	22300	21100	20000
3	18400	18000	21300	23000	23400	25200	22800	23200	22900	22300	21100	20000
4	18400	18000	21400	23000	23200	24500	22800	23100	22900	22300	21100	19900
5	18300	18000	21400	23000	23000	24000	22800	23000	22900	22200	21000	19900
6	18300	18000	21400	23000	22900	23800	22900	22800	22900	22200	21000	19900
7	18300	18000	21400	23000	23100	23600	22900	22800	22900	22200	20900	19800
8	18200	18000	21400	23000	24400	23500	22900	23000	22900	22100	20900	19800
9	18200	18000	21500	23000	24300	23400	22900	23100	22900	22100	20900	19700
10	18200	18100	21400	23000	23800	23300	22900	23000	22900	22000	20800	19700
11	18200	18100	21400	23000	23600	23200	22900	23000	22800	22000	20800	19700
12	18100	18100	21400	23000	23400	23100	22900	23000	22800	22000	20700	19600
13	18100	18100	21400	23000	24000	23000	23000	23000	22800	21900	20700	19600
14	18100	18100	21400	23000	23800	23100	23000	22900	22800	21900	20700	19600
15	18100	18100	21400	23000	23600	23000	22900	22900	22800	21800	20600	19500
16	18100	18100	21400	23000	23400	22900	23000	22900	22700	21800	20600	19500
17	18000	18100	21400	23000	23300	23100	23000	22900	22700	21800	20500	19400
18	18000	18100	21400	23000	23200	23300	23100	23000	22700	21700	20500	19400
19	18000	18300	21400	23100	23100	23700	23000	23000	22600	21700	20500	19300
20	18000	18300	21400	23100	23000	23500	23000	23000	22600	21600	20500	19300
21	18000	18300	21400	23000	22900	23600	23000	23000	22600	21600	20400	19300
22	18000	18300	21500	23000	22900	23500	22900	23000	22600	21600	20400	19200
23	18000	18300	25600	25200	23000	23500	22800	23000	22600	21500	20400	19200
24	18000	18300	24200	24900	23000	23800	23000	23000	22500	21500	20300	19200
25	18000	18300	23500	24800	23000	23800	23000	23000	22500	21400	20300	19100
26	18000	18300	23200	24000	23500	23700	22900	23000	22500	21400	20300	19100
27	18000	18300	23000	25800	24300	23500	23000	23000	22400	21400	20200	19100
28	18000	18300	22800	25200	24500	23400	23000	23000	22400	21300	20200	19000
29	18000	18300	22900	24500	---	23300	22900	23000	22400	21300	20200	19000
30	18100	19600	22900	24000	---	23200	22900	23000	22400	21200	20100	19000
31	18100	---	23000	23700	---	23100	---	23000	---	21200	20100	---
MAX	18400	19600	25600	25800	24500	26500	23100	23200	22900	22300	21200	20100
MIN	18000	18000	21000	23000	22900	22900	22800	22800	22400	21200	20100	19000
a	1292.91	1295.42	1300.64	1301.60	1302.68	1300.88	1300.59	1300.63	1299.78	1298.05	1296.27	1294.50
b	-300	+1500	+3400	+700	+800	-1400	-200	+100	-600	-1200	-1100	-1100
c	227	0	309	434	308	329	371	556	690	779	703	670

CAL YR 1982 b +7900 c 5080

WTR YR 1983 b +600 c 5380

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.

SALINAS RIVER BASIN

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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 mi².

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 1,180 ft, from topographic map.

REMARKS.--Records good. 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.--10 years, 34.8 ft³/s, 25,210 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,160 ft³/s Feb. 10, 1978, gage height, 10.24 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,850 ft³/s Mar. 1, gage height, 8.15 ft; minimum daily, 0.01 ft³/s several days during December.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.9	.31	.02	372	3110	51	203	.85	.43	4.4	6.2
2	1.9	1.9	.10	11	222	2440	52	220	.65	.43	4.4	6.2
3	1.9	2.0	.07	16	198	1850	52	198	.65	.43	4.3	6.1
4	1.9	1.9	.06	16	162	1120	52	179	.67	.43	4.3	6.0
5	1.8	1.9	.07	6.2	148	750	52	174	.70	2.0	4.9	5.9
6	1.8	1.9	.06	10	148	541	52	107	.70	3.3	5.7	5.9
7	1.8	1.9	.05	10	215	423	52	29	.70	3.5	5.5	5.9
8	1.8	1.9	.03	3.0	1190	337	52	1.9	.81	3.5	5.5	5.9
9	1.8	2.1	.02	1.4	924	273	52	54	.70	4.2	5.5	5.5
10	1.8	2.0	.01	1.4	566	231	52	73	.69	4.6	5.6	5.5
11	1.8	1.9	.01	1.4	380	202	52	43	.65	4.8	5.7	5.8
12	1.8	1.9	.01	1.4	333	180	23	42	.65	5.2	5.7	6.1
13	1.8	1.9	.01	1.4	678	172	11	43	.60	4.9	5.6	6.0
14	1.8	1.9	.01	1.6	541	171	83	35	.60	4.8	5.5	6.0
15	1.8	1.9	.01	.45	387	139	23	31	.79	4.6	5.6	6.0
16	1.8	1.9	.26	.03	290	187	2.0	22	.65	4.6	5.9	5.8
17	1.8	1.9	.03	.02	231	338	28	5.9	.65	4.6	5.7	5.7
18	1.8	2.1	.01	1.7	199	451	144	1.8	.65	4.6	5.9	5.7
19	1.8	2.0	.01	50	181	368	177	8.7	.65	4.7	6.1	5.7
20	1.8	2.0	.01	55	174	484	176	16	.65	4.6	5.9	5.9
21	1.8	2.0	.01	53	98	413	175	17	.80	4.6	5.9	5.9
22	1.8	2.0	1140	458	53	314	175	12	.65	4.6	5.9	5.9
23	1.8	2.0	1560	1660	53	259	61	6.9	.65	4.5	6.4	5.9
24	1.8	2.0	628	1850	53	216	68	3.5	.65	4.4	6.2	5.9
25	1.8	2.0	298	1210	77	189	175	1.9	.60	4.4	6.1	5.9
26	2.2	2.0	189	529	265	174	86	1.9	.60	4.8	6.0	5.9
27	1.9	2.0	169	2350	945	171	48	1.8	.60	4.5	6.1	5.9
28	1.9	2.0	18	1470	1190	143	147	1.7	.72	4.5	6.2	5.9
29	1.9	2.2	.05	871	---	83	173	1.7	.43	4.4	6.2	5.9
30	1.9	1.9	.02	470	---	71	174	1.4	.43	4.4	6.5	6.1
31	1.9	---	.02	385	---	52	---	.94	---	4.4	6.2	---
TOTAL	57.1	58.9	4003.25	11494.02	10273	15852	2520	1538.04	19.79	119.72	175.4	177.0
MEAN	1.84	1.96	129	371	367	511	84.0	49.6	.66	3.86	5.66	5.90
MAX	2.2	2.2	1560	2350	1190	3110	177	220	.85	5.2	6.5	6.2
MIN	1.8	1.9	.01	.02	53	52	2.0	.94	.43	.43	4.3	5.5
AC-FT	113	117	7940	22800	20380	31440	5000	3050	39	237	348	351
CAL YR 1982	TOTAL	11917.76	MEAN	32.7	MAX	1580	MIN	0	AC-FT	23640		
WTR YR 1983	TOTAL	46288.22	MEAN	127	MAX	3110	MIN	.01	AC-FT	91810		

SALINAS RIVER BASIN

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 860 ft, from topographic map.

REMARKS.--Records good. Some regulation and pumping above station.

AVERAGE DISCHARGE.--22 years, 15.8 ft³/s, 11,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,060 ft³/s Jan. 19, 1969, gage height, 11.12 ft in gage well, 11.75 ft from floodmarks, from rating curve extended above 1,300 ft³/s on basis of slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	0630	1,370	7.29	Feb. 7	2315	1,260	7.13
Dec. 22	0800	1,750	7.77	Feb. 12	1845	1,200	7.04
Jan. 22	2015	1,510	7.47	Mar. 2	1045	1,240	7.11
Jan. 27	0015	*1,870	7.90	Mar. 13	1300	720	6.20

Minimum, no flow many days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	45	80	8.1	67	451	64	80	6.0	2.1	.90	.35
2	0	12	35	7.0	77	763	58	65	5.8	2.0	.89	.27
3	0	2.1	18	6.4	59	333	52	57	5.8	1.9	.83	.23
4	0	.47	8.7	5.0	47	244	48	51	6.0	1.7	.77	.21
5	0	.17	5.6	4.3	116	183	45	47	5.7	1.7	.67	.21
6	0	.13	3.9	3.6	373	157	42	45	5.1	1.8	.55	.28
7	0	.12	2.9	3.2	521	152	38	39	5.2	1.6	.45	.42
8	0	.12	2.2	2.8	467	123	36	36	5.3	1.5	.45	.42
9	0	4.1	1.7	2.6	217	106	33	32	5.1	1.3	.44	.46
10	0	16	1.6	2.2	156	91	32	30	4.6	1.3	.55	.28
11	0	3.7	1.3	2.2	119	82	31	26	4.1	1.2	.60	.24
12	0	.87	1.1	1.9	439	72	29	24	3.8	1.2	.58	.17
13	0	.34	1.0	1.9	388	248	28	22	3.6	1.2	.45	.16
14	0	.19	.89	1.7	195	167	26	20	3.4	1.1	.44	.13
15	0	.15	.80	1.7	145	121	24	18	3.2	1.0	.51	.10
16	0	.15	.84	1.7	116	146	23	17	3.1	1.2	.39	.09
17	0	.15	1.3	1.5	92	149	23	15	2.9	1.3	.32	.07
18	0	17	1.2	21	108	211	37	14	2.7	1.2	.47	.05
19	0	39	1.1	55	78	142	33	13	2.6	1.2	1.1	.04
20	0	6.2	1.0	14	67	143	32	11	2.5	1.1	1.7	.03
21	0	1.7	15	11	59	178	38	10	2.5	.92	1.3	.02
22	0	.96	1050	574	53	214	39	9.9	2.8	.99	1.1	.02
23	0	5.2	245	272	50	207	42	9.8	2.7	1.0	.95	.02
24	0	2.3	111	535	49	266	52	9.2	2.7	1.1	.82	.01
25	0	1.1	57	183	138	179	25	8.3	2.5	1.2	.76	.11
26	0	.82	38	233	173	140	21	7.9	2.5	1.1	.67	.21
27	0	.71	30	880	393	127	21	7.3	2.5	1.1	.55	.29
28	0	1.7	23	229	309	109	113	7.2	2.4	1.1	.47	.37
29	33	222	19	161	---	91	85	7.0	2.3	1.0	.46	.51
30	51	486	14	123	---	79	89	6.4	2.1	.97	.45	.92
31	51	---	10	85	---	71	---	6.3	---	.95	.50	---
TOTAL	135	870.45	1782.13	3433.8	5071	5745	1259	751.3	111.5	40.03	21.09	6.69
MEAN	4.35	29.0	57.5	111	161	185	42.0	24.2	3.72	1.29	.68	.22
MAX	51	486	1050	880	521	763	113	80	6.0	2.1	1.7	.92
MIN	0	.12	.80	1.5	47	71	21	6.3	2.1	.92	.32	.01
AC-FT	268	1730	3530	6810	10060	11400	2500	1490	221	79	42	13

CAL YR 1982	TOTAL	9894.43	MEAN	27.1	MAX	1060	MIN	0	AC-FT	19630
WTR YR 1983	TOTAL	19226.99	MEAN	52.7	MAX	1050	MIN	0	AC-FT	38140

SALINAS RIVER BASIN

41

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, 3.5 mi upstream from Huerfano Creek.

DRAINAGE AREA.--390 mi².

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

REVISED RECORDS.--WSP 981: 1942.

GAGE.--Water-stage recorder. Datum of gage is 670.61 ft National Geodetic Vertical Datum of 1929. Prior to June 14, 1951, nonrecording gage, and June 14, 1951, to Sept. 30, 1965, water-stage recorder at same site and datum.

REMARKS.--Records good. Flow regulated by Santa Margarita Lake (station 11144500) 32 mi upstream beginning in 1941. Small diversions above station.

AVERAGE DISCHARGE.--40 years, 103 ft³/s, 74,620 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,500 ft³/s Feb. 16, 1980, gage height, 15.99 ft, from rating curve extended above 6,200 ft³/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 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	1115	5,620	11.05	Feb. 13	0030	7,060	11.87
Dec. 22	2100	*16,400	15.90	Feb. 18	1700	1,210	7.49
Jan. 22	2315	12,200	14.25	Mar. 1	0600	15,900	15.71
Jan. 27	0730	15,300	15.51	Mar. 13	1830	2,370	8.73
Feb. 8	0315	7,230	11.96	Mar. 24	0430	2,240	8.61

Minimum daily, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	777	130	1220	10100	565	747	50	9.0		
2		0	234	108	1100	10000	548	655	49	9.5		
3		0	138	97	980	5890	532	600	49	8.8		
4		0	87	101	876	3350	440	572	44	8.3		
5		0	77	84	939	2310	410	531	35	7.4		
6		0	64	81	1440	1850	359	492	42	7.5		
7		0	54	72	2370	1570	343	386	34	6.6		
8		0	43	70	4890	1290	324	320	31	4.0		
9		0	41	63	2650	1100	312	247	31	3.4		
10		0	38	57	1730	945	304	291	33	4.6		
11		0	33	50	1310	837	306	291	18	3.6		
12		0	34	49	2420	737	285	275	17	1.8		
13		0	30	45	4140	1160	271	245	18	.87		
14		0	24	46	2120	1160	217	217	18	.19		
15		0	24	44	1560	852	265	202	14	0		
16		0	25	42	1210	795	213	199	14	0		
17		0	24	37	1000	1140	193	162	12	0		
18		0	23	42	1020	1350	296	144	12	.33		
19		0	24	201	891	1270	501	137	13	.19		
20		0	24	142	777	1070	526	102	13	0		
21		0	26	125	713	1500	554	96	13	0		
22		0	5700	2520	590	1280	489	83	12	0		
23		0	5110	5150	515	1260	468	85	11	0		
24		0	1910	6660	480	1850	429	99	12	0		
25		0	1130	3770	590	1510	405	91	12	0		
26		0	726	2130	1740	1200	455	74	12	0		
27		0	504	10500	2950	995	342	69	11	0		
28		0	428	4590	3330	907	557	69	9.9	0		
29		0	297	3040	---	764	623	61	9.2	0		
30		2580	209	2110	---	660	797	62	9.1	0		
31		---	160	1530	---	622	---	57	---	0		
TOTAL	0	2580	18018	43686	45551	61324	12329	7661	658.2	76.08	0	0
MEAN	0	86.0	581	1409	1627	1978	411	247	21.9	2.45	0	0
MAX	0	2580	5700	10500	4890	10100	797	747	50	9.5	0	0
MIN	0	0	23	37	480	622	193	57	9.1	0	0	0
AC-FT	0	5120	35740	86650	90350	121600	24450	15200	1310	151	0	0
CAL YR 1982	TOTAL	67642.95	MEAN	185	MAX	6320	MIN	0	AC-FT	134200		
WTR YR 1983	TOTAL	191883.28	MEAN	526	MAX	10500	MIN	0	AC-FT	380600		

SALINAS RIVER BASIN

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 mi², not including Carrizo Plains.

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1960, published as Estrella Creek near Estrella.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 671.59 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

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

AVERAGE DISCHARGE.--29 years, 29.8 ft³/s 21,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,500 ft³/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 above base of 300 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 23	0745	2,140	4.02	Feb. 27	1545	1,730	3.76
Jan. 24	2030	2,040	3.96	Mar. 1	1445	7,400	6.15
Jan. 27	Unknown	*7,630	6.22	Mar. 21	1615	900	3.10
Feb. 8	1415	3,230	4.60	Mar. 24	1600	782	2.98
Feb. 13	0515	1,980	3.92				

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	162	3670	92	106	0			
2			0	0	129	1850	77	135	0			
3			0	0	98	1710	66	122	.05			
4			0	0	71	714	59	83	.04			
5			0	0	70	485	53	58	0			
6			0	0	75	349	51	42	0			
7			0	0	222	315	47	32	0			
8			0	0	1060	255	44	26	0			
9			0	0	343	217	42	25	0			
10			0	0	227	170	41	16	0			
11			0	0	156	163	40	11	0			
12			0	0	432	133	39	14	0			
13			0	0	771	134	38	13	0			
14			0	0	201	159	47	11	0			
15			0	0	167	129	44	10	0			
16			0	0	127	120	39	11	0			
17			0	0	91	160	35	12	0			
18			0	.32	74	216	46	9.2	0			
19			0	2.0	56	342	53	11	0			
20			0	1.5	47	257	85	7.1	0			
21			0	1.3	30	376	88	3.2	0			
22			2.8	65	39	295	70	3.7	0			
23			464	657	38	296	32	3.5	0			
24			113	690	40	518	45	2.8	0			
25			27	569	41	455	46	3.1	0			
26			5.4	238	73	260	44	3.5	0			
27			2.5	1200	605	220	25	2.2	0			
28			1.1	540	514	185	38	1.1	0			
29			.48	370	---	160	49	.95	0			
30			0	280	---	135	44	.66	0			
31			0	199	---	110	---	0	---			
TOTAL	0	0	616.28	4813.12	5959	14558	1519	779.01	0.09	0	0	0
MEAN	0	0	19.9	155	213	470	50.6	25.1	.003	0	0	0
MAX	0	0	464	1200	1060	3670	92	135	.05	0	0	0
MIN	0	0	0	0	30	110	25	0	0	0	0	0
AC-FT	0	0	1220	9550	11820	28880	3010	1550	.2	0	0	0

CAL YR 1982 TOTAL 1749.39 MEAN 4.79 MAX 541 MIN 0 AC-FT 3470
WTR YR 1983 TOTAL 28244.50 MEAN 77.4 MAX 3670 MIN 0 AC-FT 56020

NOTE: No gage-height record Jan. 27-31.

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, 1.4 mi south of Bryson.

DRAINAGE AREA.--162 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 800 ft, from topographic map.

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

AVERAGE DISCHARGE.--12 years, 238 ft³/s, 172,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,000 ft³/s Jan. 16, 1978, gage height, 32.00 ft, from rating curve extended above 7,820 ft³/s on basis of slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	0700	11,700	19.24	Jan. 26	2400	30,500	25.87
Dec. 22	1745	*37,000	27.57	Mar. 2	0700	20,100	22.65
Jan. 24	0630	19,400	22.39				

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	1070	210	1030	9490	529	1310	84	19	4.4	1.0
2	0	0	467	191	936	13600	474	939	79	18	4.0	.97
3	0	0	287	177	813	5910	427	748	75	17	3.7	.93
4	0	0	204	164	702	2850	391	624	71	17	15	.97
5	0	0	158	152	745	1810	359	559	67	16	10	.87
6	0	0	129	141	1600	1320	332	516	64	16	6.6	.80
7	0	0	109	131	3270	1270	303	444	59	15	4.4	.74
8	0	0	93	123	5900	997	280	397	56	15	3.4	.74
9	0	0	81	115	2200	840	260	362	54	14	2.7	.74
10	0	0	73	107	1850	730	250	332	51	13	2.3	.74
11	0	0	65	101	1650	646	242	308	48	13	1.8	.76
12	0	0	60	97	1350	569	224	288	46	12	1.6	.73
13	0	0	56	92	1220	2030	210	273	44	12	1.4	.66
14	0	0	51	86	1100	1330	196	257	42	11	1.2	.58
15	0	0	48	84	1000	919	185	245	40	11	1.2	.51
16	0	0	45	82	875	1080	174	225	38	11	1.1	.47
17	0	0	46	78	742	1260	168	205	36	10	1.0	.42
18	0	0	50	388	909	1700	313	190	34	10	.91	.39
19	0	1000	44	1180	787	1200	410	175	32	9.7	1.3	.35
20	0	236	42	514	663	1110	517	165	31	9.4	1.5	.34
21	0	128	656	490	580	1660	631	155	30	9.1	1.7	.38
22	0	91	16300	6820	516	1280	412	145	28	8.8	1.9	.45
23	0	92	3900	3580	483	1200	537	135	27	7.0	2.2	.40
24	0	78	1300	9410	533	2040	789	130	26	7.6	2.2	.40
25	0	63	784	2210	1890	1460	593	125	25	7.9	2.0	.39
26	.02	55	559	4660	2830	1070	469	115	23	8.2	2.0	.45
27	0	49	431	11200	3700	1070	828	110	22	7.8	1.8	.90
28	0	75	347	2550	5160	972	4760	103	21	6.8	1.6	.99
29	0	862	299	2910	---	795	2630	99	20	5.9	1.4	1.0
30	0	5130	264	1770	---	685	2150	94	19	5.4	1.2	3.9
31	0	---	235	1280	---	597	---	87	---	4.9	1.1	---
TOTAL	0.02	7859	28253	51095	45034	63490	20043	9860	1292	348.5	88.61	22.97
MEAN	.000	262	911	1648	1608	2048	668	318	43.1	11.2	2.86	.77
MAX	.02	5130	16300	11200	5900	13600	4760	1310	84	19	15	3.9
MIN	0	0	42	78	483	569	168	87	19	4.9	.91	.34
AC-FT	.04	15590	56040	101300	89320	125900	39760	19560	2560	691	176	46

CAL YR 1982 TOTAL 115513.51 MEAN 316 MAX 16300 MIN 0 AC-FT 229100
WTR YR 1983 TOTAL 227386.10 MEAN 623 MAX 16300 MIN 0 AC-FT 451000

NOTE.--No gage-height record Oct. 26, Nov. 19, Feb. 9-15, May 15 to July 22.

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 1982 TO SEPTEMBER 1983

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
DEC								
23...	1645	2320	12.0	218	1370	--	--	--
28...	1515	342	10.5	4	3.7	--	--	--
FEB								
15...	1300	1040	12.0	21	59	--	--	--
MAR								
01*..	1615	9120	13.0	764	18800	8	11	15
APR								
13...	1145	212	12.5	2	1.1	--	--	--
JUL								
22...	1230	9.2	26.0	1	.02	--	--	--

[illegible]

* Partial-depth sample.

PARTICLE-SIZE ANALYSES OF BED MATERIAL, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED	BED	BED
					MAT. SIEVE DIAM. % FINER THAN .062 MM	MAT. SIEVE DIAM. % FINER THAN .125 MM	MAT. SIEVE DIAM. % FINER THAN .250 MM
OCT							
05...	1355	--	1	0	27	59	84
05...	1400	--	1	0	1	2	6
05...	1405	--	1	0	1	6	40
05...	1410	--	1	0	2	16	59

	BED MAT.	BED MAT.	BED MAT.	BED MAT.	BED MAT.	BED MAT.	BED MAT.
	SIEVE DIAM.	SIEVE DIAM.	SIEVE DIAM.	SIEVE DIAM.	SIEVE DIAM.	SIEVE DIAM.	SIEVE DIAM.
	% FINER THAN	% FINER THAN	% FINER THAN	% FINER THAN	% FINER THAN	% FINER THAN	% FINER THAN
DATE	.500 MM	1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM

OCT							
05...	95	97	100	--	--	--	--
05...	20	33	39	44	57	79	100
05...	89	100	--	--	--	--	--
05...	79	81	82	84	86	91	100

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 mi² (revised). 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, 359,100 acre-ft May 3, 4, elevation, 801.75 ft; minimum observed, 198,200 acre-ft Jan. 7-9, elevation, 766.50 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 mi² (revised). PERIOD OF RECORD, December 1965 to current year. Monthend contents prior to October 1970, published in WSP 2129. GAGE, water-stage recorder. 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, 365,400 acre-ft Mar. 5, elevation, 782.65 ft; minimum, 291,000 acre-ft Oct. 14, elevation, 769.30 ft.

MONTHEND CONTENTS, IN ACRE-FEET, AT 2400, OCTOBER 1982 TO SEPTEMBER 1983

Date	Lake Nacimiento	San Antonio Reservoir
Sept. 30, 1982	270,700	294,700
Oct. 31.....	238,500	293,100
Nov. 30.....	236,800	297,400
Dec. 31.....	216,900	310,800
Jan. 31, 1983..	285,200	336,700
Feb. 28.....	287,700	337,100
Mar. 31.....	310,900	339,600
Apr. 30.....	357,800	355,800
May 31.....	324,300	339,100
June 30.....	324,800	311,600
July 31.....	289,200	305,600
Aug. 31.....	252,100	300,800
Sept. 30.....	218,400	296,300

SALINAS RIVER BASIN

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.--322 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 597 ft, from topographic map.

REMARKS.--Records good except for period of no gage-height record, Nov. 1 to Dec. 1, which is fair. Flow regulated by Nacimiento Dam (station 11149300), 2.2 mi upstream. No diversion above station.

AVERAGE DISCHARGE (unadjusted).--26 years, 317 ft³/s, 229,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,340 ft³/s Feb. 25, 1969, gage height, 10.92 ft; no flow for many days in each year except 1964, 1966-76, 1978-83.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,810 ft³/s Mar. 3, gage height, 9.40 ft; minimum daily, 7.5 ft³/s several days during January and February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	466	530	2570	2510	4300	2770	40	895	23	520	566	584
2	465	530	2510	2340	4200	4710	40	1130	33	519	565	583
3	465	530	2450	2180	4090	4880	40	1170	40	517	540	583
4	465	530	2340	2010	3980	4800	40	1160	40	516	516	583
5	506	525	2230	1850	3860	4770	40	1130	40	516	516	582
6	536	525	2120	1700	3770	4720	40	1110	40	515	516	556
7	536	525	2000	731	3790	4680	60	1200	40	514	516	528
8	536	525	1880	7.5	4000	4620	60	1370	40	513	516	528
9	536	525	1760	7.5	4060	4560	60	1360	40	512	516	551
10	535	525	1650	7.5	4010	4490	60	1190	40	512	516	579
11	536	525	1530	7.5	3930	4400	60	1120	400	512	516	575
12	534	525	1420	7.5	3850	4320	60	1400	40	546	517	575
13	533	525	487	40	3870	4270	60	1420	40	563	516	574
14	511	525	100	40	3810	4240	60	1260	40	563	516	574
15	461	525	100	40	3730	1520	60	1150	40	562	513	571
16	461	525	100	40	3620	477	60	1150	40	562	512	571
17	460	525	100	40	3510	874	60	1050	40	562	474	571
18	470	525	100	40	3400	884	60	1050	40	561	585	571
19	483	525	100	40	3300	889	60	1150	40	562	603	570
20	484	525	100	40	3180	897	60	1150	40	562	598	568
21	484	525	100	40	1050	906	60	1150	40	562	596	533
22	484	525	100	40	9.1	914	60	1120	40	562	595	503
23	484	525	216	40	7.5	1590	60	1120	40	562	592	503
24	483	490	2570	40	7.5	2620	60	1110	40	562	591	503
25	483	490	3570	2150	11	2790	60	1140	40	562	590	503
26	484	490	3430	3910	34	1920	60	1130	147	562	588	501
27	482	490	3280	4410	37	1920	60	1130	523	562	587	499
28	522	490	3130	4520	617	1920	62	474	524	562	587	499
29	548	1200	2970	4490	---	1260	110	562	523	563	587	460
30	549	2800	2820	4460	---	898	419	477	521	565	587	199
31	547	---	2660	4390	---	672	---	36	---	566	585	---
TOTAL	15529	18545	50493	42168.5	78033.1	85181	2091	33064	3574	16899	17118	16080
MEAN	501	618	1629	1360	2787	2748	69.7	1067	119	545	552	536
MAX	549	2800	3570	4520	4300	4880	419	1420	524	566	603	584
MIN	460	490	100	7.5	7.5	477	40	36	23	512	474	199
AC-FT	30800	36780	100200	83640	154800	169000	4150	65580	7090	33520	33950	31890
CAL YR 1982	TOTAL	140676.6	MEAN	385	MAX	3570	MIN	4.5	AC-FT	279000		
WTR YR 1983	TOTAL	378775.6	MEAN	1038	MAX	4880	MIN	7.5	AC-FT	751300		

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 mi².

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. No regulation; some pumping above station.

AVERAGE DISCHARGE.--18 years, 124 ft³/s, 89,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft³/s Jan. 26, 1969, gage height, 8.25 ft; 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 above base of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 19	0215	1,730	7.79	Mar. 2	0645	10,100	11.88
Nov. 30	1015	2,810	8.56	Mar. 13	1515	2,950	9.26
Dec. 22	2000	13,000	12.60	Mar. 24	0200	2,900	9.23
Jan. 26	2400	*13,100	12.64	Apr. 8	0730	2,800	9.17

Peak also occurred Feb. 8, 13.

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	722	170	840	6500	701	562	56	29	10	2.6
2		0	456	150	720	8440	658	447	54	28	9.7	2.4
3		0	314	140	610	5410	605	371	53	27	9.3	2.3
4		0	235	130	570	3220	563	362	51	29	35	2.2
5		0	204	120	550	2420	529	314	49	30	20	2.1
6		0	182	110	1500	2010	501	288	46	31	15	2.0
7		0	156	100	2500	1890	471	252	45	30	12	1.9
8		0	130	97	4600	1550	448	227	44	28	9.0	1.9
9		0	112	90	2500	1280	421	203	43	27	7.0	1.8
10		0	87	83	1800	1100	409	193	42	26	6.0	1.8
11		0	77	80	1400	1000	400	176	40	25	4.7	1.8
12		0	68	75	1200	904	384	150	39	25	4.0	1.8
13		0	59	73	1000	1380	364	145	38	24	3.7	1.6
14		0	50	70	880	1150	347	130	37	23	3.3	1.5
15		0	48	67	800	1030	335	123	36	23	2.9	1.4
16		0	41	65	681	958	320	116	35	23	2.7	1.3
17		0	46	62	580	1100	310	102	34	23	2.5	1.1
18		1.9	46	60	618	1280	360	97	33	23	2.4	1.0
19		588	44	377	586	1030	378	93	32	22	3.2	.90
20		164	41	138	526	1030	391	89	31	22	3.7	.85
21		113	45	93	469	1310	415	87	32	22	4.1	.92
22		84	5030	5400	425	1160	337	83	33	21	4.7	1.1
23		74	1920	2800	403	1040	325	79	32	19	5.4	1.0
24		61	775	7400	432	1850	442	76	31	18	5.3	1.0
25		48	716	1800	867	1440	376	72	30	20	5.0	1.0
26		36	491	3100	1570	1200	340	68	29	20	4.5	1.2
27		30	353	8000	1760	1170	376	65	30	18	4.2	1.5
28		36	280	2000	2520	1100	1400	63	30	17	3.7	1.8
29		154	240	2300	---	987	760	60	29	14	3.2	4.0
30		1340	210	1600	---	845	783	58	31	13	2.9	9.6
31		---	180	1000	---	746	---	57	---	11	2.7	---
TOTAL	0	2729.9	13358	37750	32907	57530	14449	5208	1145	711	211.8	57.37
MEAN	0	91.0	431	1218	1175	1856	482	168	38.2	22.9	6.83	1.91
MAX	0	1340	5030	8000	4600	8440	1400	562	56	31	35	9.6
MIN	0	0	41	60	403	746	310	57	29	11	2.4	.85
AC-FT	0	5410	26500	74880	65270	114100	28660	10330	2270	1410	420	114
CAL YR 1982	TOTAL	59380.11	MEAN	163	MAX	5030	MIN	0	AC-FT	117800		
WTR YR 1983	TOTAL	166057.07	MEAN	455	MAX	8440	MIN	0	AC-FT	329400		

NOTE.--No gage-height record Dec. 28 to Jan. 18, Jan. 22 to Feb. 14, May 19 to Sept. 30.

SALINAS RIVER BASIN

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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (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								
30...	1400	2120	11.5	1110	6350	9	12	16
DEC								
22...	1610	9320	12.0	5350	135000	--	9	12
27...	1530	348	13.0	65	61	--	--	--
FEB								
14...	1525	858	14.0	342	792	--	--	--
MAR								
01...	1215	5530	13.0	2530	37800	--	--	--
APR								
22...	1200	353	14.5	109	104	--	--	--
JUL								
22...	1500	22	32.0	2	.12	--	--	--

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								
30...	21	24	27	32	50	78	91	96
DEC								
22...	17	23	28	36	47	72	88	96
27...	--	--	26	--	--	--	--	--
FEB								
14...	--	--	12	16	41	76	95	100
MAR								
01...	--	--	23	34	51	69	88	97
APR								
22...	--	--	26	29	48	88	96	100
JUL								
22...	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	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
OCT							
05...	1155	1	.00	12	40	82	98
05...	1200	1	.00	--	--	2	8
05...	1205	1	.00	--	1	2	7
05...	1210	1	.00	19	39	55	65

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
OCT							
05...	100	--	--	--	--	--	--
05...	16	28	41	53	65	84	100
05...	18	28	37	45	58	89	100
05...	77	84	86	88	91	100	--

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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
FEB 14...	1610	14.0	19	916	161	2960	2	18
MAR 01...	1300	13.0	10	5520	225	13200	2	14
APR 22...	1230	15.0	23	353	120	595	2	28

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	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
FEB 14...	50	74	84	91	96	100	--	--
MAR 01...	45	71	82	88	92	98	98	100
APR 22...	61	81	90	94	98	99	100	--

SALINAS RIVER BASIN

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 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1285: 1950.

GAGE.--Water-stage recorder. Datum of gage is 442.69 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow partly 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).--35 years, 497 ft³/s, 360,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117,000 ft³/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, 31,600 ft³/s Jan. 27, gage height, 15.28 ft; minimum daily, 5.8 ft³/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	495	604	3850	3310	7460	13900	2800	1840	759	689	661	720
2	507	623	2800	3190	7150	20700	1760	2180	768	695	646	710
3	501	639	2540	3010	7290	19900	1340	2120	767	683	620	680
4	465	638	2380	2840	6910	12500	1240	1980	756	650	541	689
5	465	623	2230	1710	6660	9350	959	1960	753	635	530	684
6	527	553	2090	1530	6890	8230	886	1950	751	650	537	657
7	528	543	1940	1160	7970	7540	833	1940	746	658	529	577
8	508	520	1810	178	11400	7030	828	1960	742	670	555	593
9	472	527	1720	123	9760	6580	891	2010	751	676	580	587
10	468	528	1650	85	8230	6270	909	1780	751	673	598	653
11	503	530	1570	26	7530	6010	925	1670	753	663	598	671
12	535	543	1470	19	7480	5730	805	1860	746	626	606	694
13	538	545	1050	12	12200	5540	570	1940	747	689	622	707
14	553	516	102	8.3	8570	6110	582	1860	757	709	630	713
15	492	498	46	7.7	7520	4420	582	1730	738	719	628	702
16	489	481	27	7.2	6210	2090	576	1800	416	691	623	697
17	500	476	18	6.6	4570	2680	490	1990	390	691	565	684
18	510	494	13	5.8	4270	3240	412	1780	380	679	644	678
19	525	526	11	9.6	4220	3440	552	1720	379	670	707	673
20	530	554	9.5	38	3920	3110	664	1790	370	655	704	666
21	517	566	7.4	26	2780	3320	887	1790	366	633	707	661
22	515	570	682	73	691	3410	947	1730	618	624	719	586
23	512	570	8680	6260	495	3750	941	1750	689	618	724	584
24	509	604	3590	7000	428	4750	863	1960	700	619	718	560
25	499	614	4050	8150	390	5640	606	1880	698	631	690	570
26	479	628	3530	8290	1120	4480	574	1850	705	630	656	584
27	446	634	3440	20400	2520	4160	563	1830	524	636	640	614
28	445	640	4240	15800	3970	3940	553	1490	568	642	647	626
29	510	567	3960	11100	---	4210	825	1260	574	660	663	616
30	558	404	3700	9170	---	3500	1140	1350	580	668	692	519
31	585	---	3500	8010	---	3340	---	808	---	673	711	---
TOTAL	15686	16758	66705.9	111555.2	158604	198870	26503	55558	19242	20505	19691	19355
MEAN	506	559	2152	3599	5664	6415	883	1792	641	661	635	645
MAX	585	640	8680	20400	12200	20700	2800	2180	768	719	724	720
MIN	445	404	7.4	5.8	390	2090	412	808	366	618	529	519
AC-FT	31110	33240	132300	221300	314600	394500	52570	110200	38170	40670	39060	38390
CAL YR 1982	TOTAL	240112	MEAN	658	MAX	8680	MIN	7.4	AC-FT	476300		
WTR YR 1983	TOTAL	729033.1	MEAN	1997	MAX	20700	MIN	5.8	AC-FT	1446000		

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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 431.64 ft 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.--Records fair. No regulation; small diversions above station.

AVERAGE DISCHARGE.--25 years, 15.5 ft³/s, 11,230 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft³/s Jan. 25, 1969, gage height, 15.33 ft in gage well, 16.2 ft, from floodmarks; no flow many days in 1961 and 1973.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 22	2030	4,680	11.44	Mar. 2	1445	*5,250	11.89
Jan. 22	2300	2,310	9.11	Mar. 17	0230	426	5.34
Jan. 27	0530	2,980	9.87	Mar. 21	0145	423	5.33
Feb. 8	0400	851	6.55	Mar. 24	0530	794	6.41
Feb. 13	0015	485	5.54	Apr. 21	1000	308	4.90
Feb. 26	0445	682	6.12	Apr. 30	0100	732	6.25

Minimum daily discharge, 0.84 ft³/s Oct. 4, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	2.7	59	6.4	50	1170	154	147	51	23	12	6.7
2	.99	2.4	20	5.9	43	1930	123	109	50	24	12	5.1
3	.92	2.2	9.3	5.5	37	427	109	108	50	21	11	4.4
4	.84	2.2	7.2	5.1	31	294	106	116	47	21	10	4.2
5	.87	2.3	6.4	4.7	28	268	100	121	38	24	10	4.0
6	.87	2.4	5.8	4.3	96	240	95	124	38	20	8.9	4.0
7	.84	2.4	5.3	3.9	147	276	91	82	37	19	9.0	3.9
8	.91	2.4	4.9	3.7	297	205	82	69	34	16	8.0	4.1
9	.93	3.8	4.5	3.4	115	175	77	62	31	16	7.4	4.4
10	.86	5.4	4.2	3.1	96	141	77	59	33	18	6.8	4.5
11	.88	3.4	3.9	3.4	83	128	76	61	36	16	6.4	4.3
12	.87	3.0	3.6	3.2	117	112	73	58	33	15	5.9	4.5
13	.95	2.8	3.4	3.3	208	178	72	57	33	13	6.0	4.6
14	1.0	2.7	3.2	3.2	83	168	68	56	33	12	5.1	4.6
15	.96	2.6	3.0	3.2	65	109	65	51	30	11	5.4	4.4
16	.95	2.6	2.8	3.3	55	112	62	49	30	11	4.9	4.5
17	1.0	2.6	2.7	3.9	47	253	59	48	28	12	4.3	4.6
18	1.1	2.7	2.6	5.0	56	268	80	46	25	12	4.2	4.8
19	1.3	3.3	2.5	46	47	197	125	45	31	11	8.5	4.7
20	1.4	8.2	2.7	17	41	136	126	44	31	12	8.2	4.7
21	1.8	5.0	3.7	9.9	38	282	187	42	29	13	7.1	4.6
22	1.9	3.5	896	157	35	179	90	41	25	13	6.7	4.7
23	2.0	4.2	232	220	34	157	82	40	25	12	6.4	5.2
24	1.8	4.4	57	303	32	469	149	39	22	12	6.4	5.3
25	1.8	3.6	27	92	45	331	81	38	22	13	6.9	5.3
26	2.6	3.0	18	47	298	195	63	36	24	12	7.0	5.8
27	2.6	3.0	14	957	240	178	64	40	25	13	6.6	6.3
28	2.0	3.4	11	144	224	238	325	44	22	13	5.4	6.3
29	2.0	3.7	9.1	211	---	157	208	45	22	13	5.4	7.1
30	2.5	49	7.8	88	---	141	332	47	23	13	6.2	16
31	3.2	---	7.4	62	---	152	---	49	---	12	6.9	---
TOTAL	43.59	144.9	1440.0	2428.4	2688	9266	3401	1973	958	466	225.0	157.6
MEAN	1.41	4.83	46.5	78.3	96.0	299	113	63.6	31.9	15.0	7.26	5.25
MAX	3.2	49	896	957	298	1930	332	147	51	24	12	16
MIN	.84	2.2	2.5	3.1	28	109	59	36	22	11	4.2	3.9
AC-FT	86	287	2860	4820	5330	18380	6750	3910	1900	924	446	313
CAL YR 1982	TOTAL	4963.21	MEAN	13.6	MAX	896	MIN	.32	AC-FT	9840		
WTR YR 1983	TOTAL	23191.49	MEAN	63.5	MAX	1930	MIN	.84	AC-FT	46000		

SALINAS RIVER BASIN

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 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 780 ft, from topographic map. Prior to Aug. 27, 1970, at datum 2.00 ft higher.

REMARKS.--Records fair. No regulation; small diversion for fishponds above station by pumping.

AVERAGE DISCHARGE.--22 years, 175 ft³/s, 126,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,800 ft³/s Dec. 6, 1966, gage height, 14.50 ft, present datum, from rating curve extended above 5,700 ft³/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 above base of 2,000 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	1730	8,020	11.74	Feb. 12	1745	2,640	9.27
Nov. 30	0300	5,190	10.67	Feb. 25	2015	4,520	10.35
Dec. 22	1400	*17,100	14.03	Mar. 2	1715	10,400	12.49
Jan. 18	2100	2,300	9.03	Mar. 13	0915	6,150	11.08
Jan. 24	0315	11,000	12.65	Mar. 20	2100	2,340	9.06
Jan. 26	2045	11,800	12.88	Mar. 23	2130	2,380	9.09
Feb. 8	Unknown	12,400	13.03	Apr. 28	0230	4,600	10.39

Minimum daily, 19 ft³/s several days during October, Sept. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	33	924	250	1350	5960	857	1300	190	78	42	31
2	21	30	520	228	1220	8790	794	1110	185	77	40	29
3	21	28	357	210	1040	6050	740	982	180	76	39	28
4	20	27	274	196	906	3740	691	884	173	72	39	27
5	20	26	224	182	1070	2640	647	819	165	70	38	25
6	20	25	191	170	1510	2050	601	743	157	69	37	24
7	20	25	165	159	2780	1920	560	674	151	68	35	23
8	20	25	147	151	2800	1600	524	623	147	68	33	24
9	20	60	133	142	1030	1400	497	578	142	66	34	24
10	20	81	121	135	1630	1270	473	540	136	63	33	23
11	19	55	112	128	1360	1140	456	502	132	61	32	23
12	19	42	105	123	1750	1030	429	473	130	58	32	23
13	19	38	99	117	1760	2400	401	446	127	56	31	22
14	19	35	93	113	1390	1500	380	420	121	53	30	21
15	19	33	88	109	1200	1240	361	396	114	52	30	21
16	19	32	85	111	1060	1280	341	374	112	52	30	20
17	19	31	90	105	944	1290	337	354	109	54	29	20
18	19	1770	84	419	1130	1470	469	336	105	55	31	20
19	19	465	79	431	933	1260	430	319	103	54	37	19
20	19	169	76	235	832	1330	484	301	100	53	39	19
21	20	113	1250	249	759	1330	457	288	98	51	37	20
22	20	95	6350	3120	698	1300	394	276	97	51	35	24
23	20	93	2410	2050	682	1340	663	263	94	50	35	25
24	20	79	1170	5030	669	1620	661	249	92	49	34	25
25	27	70	804	2190	1480	1480	585	238	88	50	33	25
26	70	64	614	3570	1490	1310	507	228	84	48	31	24
27	35	63	494	5020	1870	1350	1190	217	84	46	30	25
28	29	138	414	2950	3450	1230	2830	210	85	42	29	26
29	27	736	356	2820	---	1110	1670	204	83	41	28	26
30	54	2630	314	2010	---	1010	1550	197	81	42	27	59
31	43	---	280	1610	---	931	---	192	---	42	28	---
TOTAL	758	7111	18423	34333	38793	63371	20979	14736	3665	1767	1038	745
MEAN	24.5	237	594	1108	1385	2044	699	475	122	57.0	33.5	24.8
MAX	70	2630	6350	5030	3450	8790	2830	1300	190	78	42	59
MIN	19	25	76	105	669	931	337	192	81	41	27	19
AC-FT	1500	14100	36540	68100	76950	125700	41610	29230	7270	3500	2060	1480
CAL YR 1982	TOTAL	123052	MEAN	337	MAX	6350	MIN	13	AC-FT	244100		
WTR YR 1983	TOTAL	205719	MEAN	564	MAX	8790	MIN	19	AC-FT	408000		

WATER-QUALITY RECORDS

SEDIMENT RECORDS: Water years 1962 to current year.

SEDIMENT RECORDS: October 1962 to September 1975, October 1977 to current year.

SEDIMENT DISCHARGE: Maximum daily, 451,000 tons Feb. 7, 1978; minimum daily, 0 ton many days in 1966, 1968, 1970-73, 1977.

SEDIMENT DISCHARGE: Maximum daily, 46,300 tons Mar. 2; minimum daily, 0.06 ton Sept. 11, 12, 26.

[illegible]

SALINAS RIVER BASIN

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	21	3	.17	33	4	.36	924	13	32
2	21	3	.17	30	2	.16	520	12	17
3	21	3	.17	28	1	.08	357	12	12
4	20	3	.16	27	3	.22	274	13	9.6
5	20	3	.16	26	4	.28	224	14	8.5
6	20	3	.16	25	5	.34	191	15	7.7
7	20	4	.22	25	5	.34	165	16	7.1
8	20	6	.32	25	5	.34	147	17	6.7
9	20	6	.32	60	11	2.3	133	18	6.5
10	20	7	.38	81	14	3.1	121	19	6.2
11	19	7	.36	55	8	1.2	112	20	6.0
12	19	7	.36	42	7	.79	105	19	5.4
13	19	6	.31	38	6	.62	99	18	4.8
14	19	6	.31	35	5	.47	93	18	4.5
15	19	6	.31	33	4	.36	88	17	4.0
16	19	6	.31	32	3	.26	85	17	3.9
17	19	7	.36	31	2	.17	90	18	4.4
18	19	7	.36	1770	379	4780	84	17	3.9
19	19	8	.41	465	52	107	79	17	3.6
20	19	8	.41	169	5	2.3	76	17	3.5
21	20	9	.49	113	3	.92	1250	87	549
22	20	7	.38	95	3	.77	6350	1340	34300
23	20	6	.32	93	4	1.0	2410	108	844
24	20	5	.27	79	4	.85	1170	9	28
25	27	4	.29	70	4	.76	804	6	13
26	70	12	2.6	64	4	.69	614	6	9.9
27	35	4	.38	63	5	.85	494	5	6.7
28	29	3	.23	138	28	6.9	414	4	4.5
29	27	3	.22	736	101	324	356	3	2.9
30	54	12	2.0	2630	144	1580	314	2	1.7
31	43	5	.58	---	---	---	280	1	.76
TOTAL	758	---	13.49	7111	---	6817.43	18423	---	35917.76

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	250	2	1.4	1350	9	33	5960	901	14500
2	228	2	1.2	1220	16	53	8790	1950	46300
3	210	2	1.1	1040	9	25	6050	409	7680
4	196	2	1.1	906	7	17	3740	61	616
5	182	2	.98	1070	25	62	2640	33	235
6	170	2	.92	1510	101	430	2050	30	166
7	159	2	.86	2780	374	4240	1920	143	741
8	151	2	.82	2800	0	2200	1600	68	294
9	142	2	.77	1030	0	880	1400	52	197
10	135	3	1.1	1630	24	106	1270	39	134
11	128	3	1.0	1360	15	55	1140	28	86
12	123	3	1.0	1750	234	1210	1030	19	53
13	117	3	.95	1760	97	494	2400	400	4100
14	113	3	.92	1390	44	165	1500	86	348
15	109	3	.88	1200	43	139	1240	50	167
16	111	7	2.1	1060	41	117	1280	112	438
17	105	5	1.4	944	40	102	1290	125	442
18	419	53	182	1130	84	273	1470	244	977
19	431	28	45	933	44	111	1260	98	333
20	235	3	1.9	832	34	76	1330	98	444
21	249	12	9.3	759	31	64	1330	73	262
22	3120	679	10400	698	29	55	1300	47	170
23	2050	254	1620	682	41	78	1340	80	376
24	5030	576	10900	669	70	126	1620	123	541
25	2190	70	414	1480	226	1680	1480	32	128
26	3570	619	13200	1490	95	437	1310	19	67
27	5020	489	7320	1870	154	817	1350	44	168
28	2950	130	1170	3450	538	8440	1230	30	100
29	2820	106	902	---	---	---	1110	23	69
30	2010	24	130	---	---	---	1010	21	57
31	1610	14	61	---	---	---	931	18	45
TOTAL	34333	---	46373.70	38793	---	22485	63371	---	80234

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	857	15	35	1300	45	158	190	2	1.0
2	794	10	21	1110	33	99	185	2	1.0
3	740	11	22	992	22	58	180	2	.97
4	691	19	35	884	14	33	173	2	.93
5	647	28	49	819	12	27	165	2	.89
6	601	25	41	743	10	20	157	2	.85
7	560	23	35	674	9	16	151	2	.82
8	524	22	31	623	9	15	147	2	.79
9	497	21	28	578	8	12	142	2	.77
10	473	20	26	540	8	12	136	2	.73
11	456	20	25	502	7	9.5	132	2	.71
12	429	19	22	473	7	8.9	130	2	.70
13	401	19	21	446	7	8.4	127	2	.69
14	380	18	18	420	6	6.8	121	2	.65
15	361	18	18	396	6	6.4	114	2	.62
16	341	17	16	374	6	6.1	112	2	.60
17	337	17	15	354	5	4.8	109	3	.88
18	469	38	49	336	5	4.5	105	3	.85
19	430	23	28	319	5	4.3	103	3	.83
20	484	23	31	301	5	4.1	100	3	.81
21	457	19	23	288	4	3.1	98	3	.79
22	394	11	12	276	4	3.0	97	3	.79
23	663	58	172	263	4	2.8	94	3	.76
24	661	42	75	249	4	2.7	92	3	.75
25	585	26	41	238	3	1.9	88	3	.71
26	507	12	16	228	3	1.8	84	3	.68
27	1190	159	967	217	3	1.8	84	3	.68
28	2830	337	3010	210	3	1.7	85	3	.69
29	1670	290	1260	204	3	1.7	83	3	.67
30	1550	87	364	197	2	1.1	81	3	.66
31	---	---	---	192	2	1.0	---	---	---
TOTAL	20979	---	6506	14736	---	536.4	3665	---	23.27
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	78	3	.63	42	5	.57	31	3	.25
2	77	3	.62	40	3	.32	29	3	.23
3	76	4	.82	39	2	.21	28	3	.23
4	72	4	.78	39	3	.32	27	3	.22
5	70	3	.57	38	4	.41	25	3	.20
6	69	2	.37	37	4	.40	24	3	.19
7	68	3	.55	35	3	.28	23	4	.25
8	68	4	.73	33	3	.27	24	4	.26
9	66	4	.71	34	2	.18	24	3	.19
10	63	3	.51	33	1	.09	23	2	.12
11	61	3	.49	32	2	.17	23	1	.06
12	58	3	.47	32	2	.17	23	1	.06
13	56	4	.60	31	3	.25	22	2	.12
14	53	4	.57	30	3	.24	21	2	.11
15	52	5	.70	30	4	.32	21	3	.17
16	52	6	.84	30	3	.24	20	3	.16
17	54	7	1.0	29	3	.23	20	4	.22
18	55	8	1.2	31	5	.42	20	4	.22
19	54	8	1.2	37	7	.70	19	5	.26
20	53	8	1.1	39	5	.53	19	6	.31
21	51	5	.69	37	3	.30	20	5	.27
22	51	2	.28	35	2	.19	24	4	.26
23	50	4	.54	35	2	.19	25	4	.27
24	49	5	.66	34	2	.18	25	3	.20
25	50	7	.95	33	2	.18	25	2	.14
26	48	5	.65	31	2	.17	24	1	.06
27	46	4	.50	30	2	.16	25	1	.07
28	42	6	.68	29	3	.23	26	1	.07
29	41	8	.89	28	3	.23	26	2	.14
30	42	6	.68	27	3	.22	59	30	5.4
31	42	5	.57	28	3	.23	---	---	---
TOTAL	1767	---	21.55	1038	---	8.60	745	---	10.71
YEAR 205719.0				198947.9					

SALINAS RIVER BASIN

11152000 ARROYO SECO NEAR SOLEDAD, CA

LOCATION.--Lat 36°16'50", long 121°19'20", in SW 1/4 NE 1/4 sec.16, T.19 S., R.6 E., Monterey County, Hydrologic Unit 18060005, on right bank just downstream from bridge, 1.5 mi downstream from Vaquero Creek, and 10 mi south of Soledad.

DRAINAGE AREA.--244 mi².

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. Datum of gage is 339.20 ft 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.--Records fair. No regulation or large diversion above station.

AVERAGE DISCHARGE.--82 years, 173 ft³/s, 125,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft³/s Apr. 3, 1958, gage height, 16.40 ft, present datum, from rating curve extended above 12,000 ft³/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 above base of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	2015	7,350	8.21	Feb. 12	2015	3,220	5.62
Nov. 30	0715	5,940	7.47	Feb. 25	2115	4,970	6.82
Dec. 22	1630	*22,000	14.50	Mar. 2	1845	16,500	12.43
Jan. 24	0600	14,400	11.57	Mar. 13	1230	4,930	6.80
Jan. 26	2345	15,800	12.14	Mar. 24	0030	2,620	5.16
Feb. 8	0045	7,130	8.09	Apr. 28	0615	3,890	6.10

Minimum daily, 22 ft³/s Sept. 18-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	41	990	306	2060	6810	1080	1520	277	125	66	53
2	26	37	500	277	1930	8840	982	1330	277	122	64	53
3	26	35	361	257	1720	6500	926	1210	263	118	62	47
4	26	33	263	237	1550	4030	869	1110	256	115	62	38
5	25	32	206	219	1690	3140	817	1040	247	113	60	28
6	25	31	169	202	2060	2490	768	979	234	109	59	27
7	25	31	143	187	2970	2280	723	902	226	107	56	26
8	25	31	124	174	4380	1960	678	845	220	107	54	28
9	25	60	110	162	2860	1720	643	793	211	105	54	28
10	25	84	99	150	2340	1560	615	751	200	100	52	26
11	25	60	91	143	2040	1430	593	710	192	97	52	26
12	25	49	84	136	2350	1310	567	672	191	92	52	26
13	25	44	78	129	2470	2270	533	639	185	89	50	25
14	26	41	74	124	2050	1770	507	607	182	85	48	24
15	27	41	69	120	1850	1500	484	576	177	83	48	24
16	27	39	66	119	1700	1530	463	550	172	84	47	23
17	27	38	67	114	1580	1550	454	527	168	86	47	23
18	27	1400	67	211	1740	1750	573	501	162	88	70	22
19	28	629	62	718	1540	1550	556	479	159	86	78	22
20	29	138	60	271	1430	1540	609	452	155	84	70	22
21	29	82	601	241	1330	1720	612	428	151	82	63	23
22	29	63	8530	2580	1260	1570	521	413	149	82	57	26
23	29	59	4180	2430	1230	1540	668	390	145	80	53	28
24	30	52	1840	6010	1240	1990	826	368	142	80	50	28
25	33	46	1150	2800	1870	1820	702	344	140	80	47	28
26	56	42	814	3370	2190	1630	616	326	138	77	46	27
27	49	39	611	6790	2740	1620	888	312	135	73	44	29
28	39	58	507	3520	4670	1500	2740	301	133	69	48	30
29	36	329	436	3740	---	1360	1840	302	131	66	45	30
30	40	3110	385	2890	---	1240	1780	293	129	66	43	56
31	55	---	342	2390	---	1150	---	282	---	66	44	---
TOTAL	945	6774	23079	41017	58840	72670	24633	19952	5547	2816	1691	896
MEAN	30.5	226	744	1323	2101	2344	821	644	185	90.8	54.5	29.9
MAX	56	3110	8530	6790	4670	8840	2740	1520	277	125	78	56
MIN	25	31	60	114	1230	1150	454	282	129	66	43	22
AC-FT	1870	13440	45780	81360	116700	144100	48860	39570	11000	5590	3350	1780
CAL YR 1982	TOTAL	142631	MEAN	392	MAX	9740	MIN	13	AC-FT	282900		
WTR YR 1983	TOTAL	258860	MEAN	711	MAX	8840	MIN	22	AC-FT	513400		

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, 2 mi southwest of Chualar.

DRAINAGE AREA.--4,042 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder installed January 1979 (nonrecording gage prior to 1979). Datum of gage is 68.00 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. 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 partly regulated by Santa Margarita Lake (station 11144500), Lake Nacimiento, formerly Nacimiento Reservoir (station 11149300), and San Antonio Reservoir (station 11150100). Large withdrawals from ground water and small surface-water diversions for municipal use and irrigation above station.

AVERAGE DISCHARGE.--7 years, 822 ft³/s, 595,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,000 ft³/s Mar. 3, 1983, gage height, 14.49 ft; no flow many days in 1977 and several days in 1978-81.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48,000 ft³/s Mar. 3, gage height, 14.49 ft; minimum daily, 238 ft³/s Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240	345	1750	5230	9530	21100	6850	2450	1480	511	420	453
2	242	356	1510	4930	7840	38700	6200	2600	1200	482	414	433
3	246	366	2890	4630	7120	43500	4980	2750	1090	552	398	427
4	253	377	2530	4410	7100	26300	3830	3000	999	584	377	424
5	253	382	2270	4250	6990	13300	3440	2950	974	686	363	438
6	244	384	1980	3130	7200	11700	2740	2750	960	642	340	462
7	238	381	1940	2440	9190	11100	2680	2550	953	583	330	462
8	255	371	1880	2180	15400	10300	2530	2500	936	500	337	450
9	268	386	1800	1340	18400	9930	2230	2600	934	470	342	414
10	275	406	1700	988	11700	9120	1890	2600	919	470	340	396
11	285	390	1610	833	8920	8810	1760	2500	917	480	338	388
12	289	377	1540	718	8270	9060	1680	2500	857	470	330	432
13	295	369	1480	618	13300	8230	1590	2550	836	450	327	436
14	297	367	1390	552	16000	7780	1380	2600	844	420	322	412
15	300	368	937	503	10800	7130	1210	2500	784	415	340	405
16	304	362	645	464	9150	4770	1080	2400	814	420	338	413
17	292	357	513	432	6880	4200	1000	2250	740	422	302	401
18	289	374	439	413	5990	4910	997	2660	576	420	298	407
19	292	997	396	676	5440	5420	1120	2590	531	415	306	425
20	298	545	364	622	5020	5920	1100	2500	479	422	338	429
21	300	463	334	524	4590	6970	1420	2570	473	414	402	424
22	303	479	2260	798	3490	6360	1820	2340	458	403	437	418
23	303	465	6480	6010	2500	6190	1800	2280	422	401	444	418
24	300	455	8200	8740	2570	7310	2500	2180	512	407	444	386
25	307	457	5310	7450	2070	8040	2370	2370	557	424	444	395
26	320	472	5930	6230	3970	6710	1950	2350	537	428	448	422
27	315	493	5250	14000	3710	5570	1430	2290	553	418	444	426
28	314	504	4860	23000	5370	5680	2350	2270	612	411	454	417
29	308	514	5950	24000	---	5580	2300	2230	552	408	469	442
30	321	1670	5850	14100	---	5490	2200	1670	515	396	464	504
31	329	---	5470	10800	---	6140	---	1650	---	397	452	---
TOTAL	8875	14232	85458	155011	218510	331320	70427	76000	23014	14321	11802	12759
MEAN	286	474	2757	5000	7804	10690	2348	2452	767	462	381	425
MAX	329	1670	8200	24000	18400	43500	6850	3000	1480	686	469	504
MIN	238	345	334	413	2070	4200	997	1650	422	396	298	386
AC-FT	17600	28230	169500	307500	433400	657200	139700	150700	45650	28410	23410	25310
CAL YR 1982	TOTAL	247252.7	MEAN	677	MAX	8200	MIN	9.7	AC-FT	490400		
WTR YR 1983	TOTAL	1021729	MEAN	2799	MAX	43500	MIN	238	AC-FT	2027000		

SALINAS RIVER BASIN

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 TEMPERATURE: 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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	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 SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCO FECAL, KF AGAR (COLS. PER 100 ML)
NOV 15...	1230	380	376	8.3	12.0	765	11	11.2	104	K18	72
FEB 08...	1245	15000	287	8.0	12.5	760	400	10.2	96	K920	K4700
MAR 21...	1500	7040	485	7.8	14.0	760	450	10.2	99	3900	6100
MAY 16...	1400	2350	441	8.0	20.0	765	55	9.3	102	K64	740
JUL 19...	1330	415	459	8.3	21.5	765	19	9.3	105	K49	540
SEP 13...	1130	435	406	8.4	22.0	760	27	9.8	113	K55	320

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	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- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 15...	160	42	39	16	17	18	.6	1.4	122	51	13
FEB 08...	120	18	29	11	15	21	.6	1.8	100	47	10
MAR 21...	180	62	44	18	31	27	1	2.4	122	94	23
MAY 16...	180	57	44	18	25	23	.8	2.1	128	82	18
JUL 19...	190	49	45	18	24	22	.8	2.0	138	84	19
SEP 13...	170	39	41	16	20	20	.7	1.8	130	64	--

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 CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	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, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV 15...	.20	17	232	230	.32	.35	.07	.50	.06	.02	.05
FEB 08...	.20	18	185	190	.25	.22	.10	.60	.09	.09	.10
MAR 21...	.20	21	280	310	.38	.45	.13	--	--	.14	.10
MAY 16...	.20	22	282	290	.38	.43	.10	.70	.22	.08	.07
JUL 19...	.20	18	292	290	.40	.83	.07	.60	.16	.10	.05
SEP 13...	.20	20	257	--	.35	.51	.05	.80	.19	.05	.06

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

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 15...	1230	20	1	34	<.5	<1	<1	<3	1	13	<1
FEB 08...	1245	50	1	32	<.5	<1	<1	<3	1	77	<1
MAY 16...	1400	20	1	34	.5	<1	<1	<3	1	10	<1
SEP 13...	1130	20	1	34	2	<1	<1	<3	2	<3	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 15...	20	3	<.1	<10	3	1	<1	240	<6	15
FEB 08...	17	8	<.1	<10	3	1	<1	180	<6	22
MAY 16...	19	7	<.1	<10	1	2	<1	270	<6	11
SEP 13...	11	2	<.1	<10	4	1	<1	260	<6	7

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
NOV 15...	1350	371	12.0	57	57	--	--	--	--	--	--
FEB 08...	1250	16400	12.5	4500	199000	--	13	14	19	24	--
MAR 21...	1410	6880	14.0	3030	56300	16	19	22	27	34	42
MAY 16...	1420	2350	20.0	590	3740	--	--	--	--	--	--
JUL 19...	1300	432	21.5	83	97	--	--	--	--	--	--
SEP 13...	1205	444	23.0	93	111	27	35	44	54	65	--

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. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV 15...	48	--	--	--	--	--	--	--	--	--
FEB 08...	29	--	39	--	70	--	96	--	99	100
MAR 21...	--	63	--	90	--	99	--	100	--	--
MAY 16...	33	--	44	--	82	--	99	--	100	--
JUL 19...	--	--	--	--	--	--	--	--	--	--
SEP 13...	72	--	78	--	92	--	99	--	100	--

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 mi².

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. Datum of gage is 20.56 ft 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. July 1, 1961, to May 22, 1969, auxiliary water-stage recorder at site 0.3 mi downstream at datum 0.69 ft lower.

REMARKS.--Records fair. Flow partly regulated by Santa Margarita Lake (station 11144500) beginning in 1941, Lake Nacimiento, formerly Nacimiento Reservoir (station 11149300) beginning in February 1957, and San Antonio Reservoir (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 Spreckels sugar refinery and Alisal sewage disposal plant.

AVERAGE DISCHARGE.--54 years (water years 1930-83), 465 ft³/s, 336,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,100 ft³/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, 63,000 ft³/s Mar. 3, gage height, 23.44 ft; minimum daily, 181 ft³/s Dec. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	297	2440	4410	9330	22900	4780	3000	1650	370	351	408
2	190	307	1250	4530	8360	43300	4160	3140	1400	340	363	411
3	192	314	2710	4270	7860	59800	3490	3300	1200	400	360	406
4	195	319	2830	4090	7580	55100	2830	3470	1130	430	369	399
5	198	320	2460	3840	6870	43100	2600	3320	1100	482	374	407
6	198	321	2340	3050	7110	16600	2350	3020	1070	481	366	420
7	198	324	2200	2600	8630	14100	2320	2800	1050	465	345	430
8	202	321	2050	2670	13900	12000	2260	2780	1020	451	350	416
9	213	325	1930	2120	17200	10600	2160	2860	1000	451	376	394
10	218	357	1790	1530	12000	9970	2420	2810	980	457	351	369
11	226	344	1650	1240	9530	9670	2410	2690	980	464	348	362
12	232	336	1530	1070	8910	9050	1930	2630	900	466	347	385
13	239	327	1420	901	11300	9490	2000	2640	850	447	308	415
14	243	323	1310	773	15200	10200	2210	2680	860	414	298	395
15	244	320	974	678	10000	7900	2090	2560	780	404	302	382
16	244	320	516	612	8280	5300	1940	2460	790	408	308	384
17	241	326	366	553	6320	4210	1790	2430	690	409	292	372
18	227	339	285	526	5020	4770	1670	2850	540	404	267	368
19	227	675	237	643	4580	4960	1860	2850	460	401	284	377
20	228	718	204	838	4270	4650	1760	2890	410	389	295	405
21	231	442	181	601	4000	5190	2130	3010	390	373	342	401
22	233	417	651	606	3620	5010	2410	3080	370	368	385	391
23	238	410	7900	3640	2610	5260	2330	3160	340	363	405	397
24	241	403	6930	8210	2540	7620	2690	2970	420	363	402	377
25	249	402	4950	8820	2460	9660	2910	3010	460	366	399	358
26	270	403	4890	8420	4100	9110	2410	3000	430	380	394	371
27	263	418	4280	16300	4070	6940	2010	3000	440	373	380	386
28	263	405	4090	24700	5680	6850	2960	2900	490	359	383	389
29	263	421	4420	32700	---	6210	2900	2800	430	348	391	389
30	288	711	4580	16900	---	6210	2700	2000	380	340	420	470
31	284	---	4480	11600	---	5210	---	1900	---	340	409	---
TOTAL	7169	11665	77844	173441	211330	430940	74480	88010	23010	12506	10964	11834
MEAN	231	389	2511	5595	7548	13900	2483	2839	767	403	354	394
MAX	288	718	7900	32700	17200	59800	4780	3470	1650	482	420	470
MIN	190	297	181	526	2460	4210	1670	1900	340	340	267	358
AC-FT	14220	23140	154400	344000	419200	854800	147700	174600	45640	24810	21750	23470

CAL YR 1982 TOTAL 224992.4 MEAN 616 MAX 7900 MIN .94 AC-FT 446300
WTR YR 1983 TOTAL 1133193 MEAN 3105 MAX 59800 MIN 181 AC-FT 2248000

NOTE.--No gage-height record Nov. 30 to Dec. 4, Dec. 30 to Jan. 5, Mar 14-17, Apr. 10-28, May 16 to July 5.

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 210 ft, from topographic map. Prior to Sept. 16, 1983, at site 700 ft upstream at same datum.

REMARKS.--Records poor. No regulation or diversion above station except for minor stock ponds.

AVERAGE DISCHARGE.--22 years, 2.00 ft³/s, 1,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 630 ft³/s May 2, 1983, gage height, 6.10 ft, from rating curve extended above 93 ft³/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 above base of 20 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	Unknown	35	3.50	Feb. 8	0030	92	4.03
Dec. 22	1715	360	5.26	Feb. 13	0100	30	3.43
Jan. 19	0045	23	3.33	Feb. 18	1045	24	3.35
Jan. 24	0330	107	4.14	Mar. 2	Unknown	*630	6.10
Jan. 26	2345	360	5.26				

Peak also occurred on Mar. 13, 24, 27, Apr. 28.

Minimum daily, 0.06 ft³/s Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.15	.60	1.4	31	146	23	24	.64	.32	.34	.22
2	.09	.14	.50	1.1	28	390	21	16	.78	.32	.35	.22
3	.08	.11	.40	.62	23	120	19	13	1.1	.33	.35	.22
4	.08	.12	.33	.39	19	80	17	12	1.2	.34	.34	.22
5	.09	.13	.29	.33	19	60	16	10	1.1	.37	.34	.23
6	.08	.12	.26	.28	27	50	15	9.5	1.1	.38	.34	.23
7	.10	.12	.24	.28	30	44	14	8.4	1.1	.40	.34	.24
8	.08	.13	.26	.28	63	37	13	7.5	1.1	.41	.33	.23
9	.07	1.7	.24	.28	37	32	12	6.8	1.1	.40	.33	.23
10	.08	.33	.31	.28	27	30	10	6.1	1.0	.38	.33	.22
11	.06	.18	.49	.29	20	28	9.8	5.5	.85	.37	.32	.22
12	.07	.16	.43	.24	19	26	9.3	5.0	.74	.35	.32	.21
13	.08	.16	.24	.27	22	100	8.7	4.5	.61	.33	.31	.22
14	.07	.16	.24	.27	16	53	8.3	4.2	.51	.32	.30	.22
15	.08	.14	.22	.39	15	39	7.5	3.8	.43	.30	.29	.22
16	.09	.14	.22	.47	13	40	7.1	3.3	.38	.29	.28	.23
17	.08	.14	.22	.40	13	42	6.5	2.9	.34	.28	.28	.16
18	.08	24	.25	4.4	18	43	6.1	2.5	.33	.27	.27	.15
19	.09	9.0	.26	7.2	13	35	5.5	2.2	.35	.26	.27	.15
20	.09	1.0	.25	1.6	9.7	39	5.3	1.9	.36	.26	.26	.14
21	.09	.35	1.4	1.0	8.8	42	5.1	1.7	.37	.26	.25	.14
22	.10	.28	73	25	8.1	48	4.9	1.5	.38	.25	.25	.15
23	.08	.23	53	19	14	56	4.7	1.3	.39	.25	.24	.15
24	.09	.21	25	63	37	67	4.6	1.2	.40	.26	.24	.14
25	.16	.19	18	23	27	47	7.4	1.0	.39	.27	.23	.15
26	.33	.18	13	71	24	41	8.0	.90	.38	.27	.23	.16
27	.11	.17	10	91	51	58	4.5	.81	.36	.28	.22	.14
28	.11	11	8.1	55	86	41	41	.79	.35	.29	.22	.14
29	.11	6.6	6.2	135	---	35	24	.75	.34	.30	.22	.16
30	2.7	9.5	3.2	70	---	30	30	.71	.33	.32	.22	1.0
31	.16	---	2.4	44	---	28	---	.67	.33	.33	.22	---
TOTAL	5.65	66.84	219.55	617.77	718.6	1927	368.3	160.43	18.81	9.76	8.83	6.51
MEAN	.18	2.23	7.08	19.9	25.7	62.2	12.3	5.18	.63	.31	.28	.22
MAX	2.7	24	73	135	86	390	41	24	1.2	.41	.35	1.0
MIN	.06	.11	.22	.24	8.1	26	4.5	.67	.33	.25	.22	.14
AC-FT	11	133	435	1230	1430	3820	731	318	37	19	18	13
CAL YR 1982	TOTAL	1291.64	MEAN	3.54	MAX	87	MIN	.05	AC-FT	2560		
WTR YR 1983	TOTAL	4128.05	MEAN	11.3	MAX	390	MIN	.06	AC-FT	8190		

NOTE.--No gage-height record Nov. 16 to Dec. 6. Stage-discharge relation indefinite Mar. 2 to Sept. 16.

TEMBLADERO SLOUGH BASIN

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 mi².

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

GAGE.--Water-stage recorder. Concrete control since Oct. 9, 1975. Altitude of gage is 200 ft, from topographic map. Prior to Oct. 9, 1975, on right bank at same datum.

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

AVERAGE DISCHARGE.--13 years, 5.88 ft³/s, 4,260 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 800 ft³/s Apr. 1, 1974, gage height, 11.13 ft, from rating curve extended above 260 ft³/s on basis of slope-area measurement of maximum flow; no flow for most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 60 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	1815	132	3.02	Feb. 25	1900	*272	4.12
Dec. 23	0015	155	3.20	Mar. 3	0445	217	2.90
Jan. 22	1700	121	2.93	Mar. 13	1400	202	3.56
Jan. 27	0130	180	3.39	Apr. 28	0215	68	2.62

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.12	69	11	67	159	98	41	18	5.4	5.7	2.7
2	0	0	30	10	54	156	87	37	17	5.4	5.0	1.7
3	0	0	16	9.6	47	134	78	41	20	6.1	4.6	1.2
4	0	0	11	8.8	43	124	77	37	18	5.2	3.9	.87
5	0	0	8.9	8.2	40	112	73	37	15	5.2	3.1	1.1
6	0	0	8.3	7.8	70	117	70	35	11	5.1	3.0	1.6
7	0	0	7.6	7.4	140	118	74	32	9.1	4.7	3.7	1.7
8	0	0	7.1	7.2	92	120	75	26	9.2	5.2	3.7	1.0
9	0	1.0	6.3	7.1	62	115	56	25	8.3	5.2	3.7	.41
10	0	2.2	5.2	7.1	50	116	49	23	8.5	5.4	4.2	.07
11	0	0	4.1	6.9	66	114	45	23	8.6	5.8	3.2	0
12	0	0	3.7	6.4	130	105	38	22	8.6	5.5	3.8	0
13	0	0	3.7	7.8	78	153	36	21	9.6	4.6	3.2	0
14	0	0	3.1	8.2	110	131	33	20	8.3	3.8	3.0	0
15	0	0	2.0	7.9	101	115	32	19	7.9	4.7	3.1	0
16	0	0	1.5	8.7	97	117	32	19	7.4	5.2	2.3	0
17	0	0	1.7	8.1	95	117	28	18	6.9	4.7	2.1	.12
18	0	9.8	1.1	19	101	147	25	18	7.2	4.7	2.9	.14
19	0	7.8	1.0	26	97	122	23	17	7.0	5.0	3.6	.25
20	0	3.1	1.2	15	94	120	26	18	7.1	4.8	2.9	.09
21	0	1.3	9.7	9.9	88	132	21	16	6.6	4.8	2.3	.03
22	0	.14	78	52	90	117	18	16	7.2	4.7	2.0	.10
23	0	.22	140	64	93	125	22	18	7.0	4.9	1.4	.04
24	0	0	49	93	98	133	26	18	7.0	5.2	1.3	.03
25	.18	0	33	51	120	122	23	18	6.7	5.5	1.0	.03
26	5.0	0	29	62	121	117	19	19	6.8	5.1	.98	.14
27	.09	0	24	135	117	122	18	19	6.0	5.6	1.4	.20
28	0	2.3	20	107	120	118	54	18	6.2	5.9	1.6	.15
29	0	38	17	126	---	116	48	18	6.6	5.4	1.8	.34
30	5.1	120	14	104	---	117	48	18	5.2	4.9	1.7	3.3
31	.98	---	13	87	---	107	---	18	---	5.5	2.2	---
TOTAL	11.35	185.98	619.2	1089.1	2481	3838	1352	725	278.0	159.2	88.38	17.31
MEAN	.37	6.20	20.0	35.1	88.6	124	45.1	23.4	9.27	5.14	2.85	.58
MAX	5.1	120	140	135	140	159	98	41	20	6.1	5.7	3.3
MIN	0	0	1.0	6.4	40	105	18	16	5.2	3.8	.98	0
AC-FT	23	369	1230	2160	4920	7610	2680	1440	551	316	175	34

CAL YR 1982	TOTAL	4999.75	MEAN	13.7	MAX	190	MIN	0	AC-FT	9920
WTR YR 1983	TOTAL	10844.52	MEAN	29.7	MAX	159	MIN	0	AC-FT	21510

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 mi²

PERIOD OF RECORD.--October 1970 to current year. March 1968 to September 1970 in reports of Monterey County Flood Control and Water Conservation District.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 30 ft, from topographic map.

AVERAGE DISCHARGE.--13 years, 19.5 ft³/s, 14,130 acre-ft/yr.

REMARKS.--Records good. Flow is mostly drainage from Carr Lake area for farming.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 524 ft³/s Mar. 1, 1983; no flow Dec. 4, 10, 11, 1978.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	17	261	13	263	524	147	91	22	13	6.4	8.0
2	4.0	8.5	188	9.0	188	480	129	66	22	12	6.0	7.8
3	2.5	6.4	110	6.9	142	467	113	57	22	13	6.9	8.5
4	2.5	6.5	59	5.7	98	508	111	53	21	9.9	6.5	9.0
5	4.2	5.1	38	4.9	89	440	109	51	21	10	7.2	5.9
6	5.9	5.6	22	4.3	116	370	103	51	20	12	7.7	4.8
7	6.3	4.3	11	3.8	170	327	95	47	21	13	7.2	6.2
8	4.7	3.3	7.5	3.9	348	269	92	44	21	12	5.9	6.5
9	5.3	28	6.1	3.3	397	207	86	41	19	9.9	5.3	6.7
10	3.7	56	5.0	3.5	357	175	82	43	21	9.2	5.1	7.1
11	4.2	24	3.9	4.5	304	210	77	42	20	8.8	6.8	5.9
12	6.0	9.8	2.8	4.3	275	201	73	41	18	10	7.5	4.8
13	5.8	5.5	4.3	3.6	275	228	70	42	16	13	6.8	8.0
14	6.3	3.1	3.2	3.2	236	375	72	37	17	10	6.6	7.5
15	6.2	2.0	2.9	3.3	191	372	64	34	16	10	5.5	6.3
16	5.4	4.4	2.7	18	163	330	59	34	15	11	7.0	5.8
17	3.4	4.3	3.9	4.1	140	316	58	32	16	9.6	7.5	6.0
18	2.7	27	3.2	39	146	430	57	33	16	8.4	6.9	5.9
19	5.6	52	2.7	119	153	448	57	33	16	10	8.6	4.0
20	5.7	24	3.7	77	135	394	56	31	13	9.7	8.9	5.7
21	5.9	9.2	21	55	116	393	54	33	14	8.6	5.3	8.2
22	5.3	5.2	130	88	106	363	51	32	13	7.5	3.8	6.8
23	5.9	17	310	176	113	315	61	29	13	8.4	5.9	5.5
24	3.5	8.1	264	181	175	348	67	28	13	8.0	6.2	4.9
25	5.4	4.8	190	162	204	391	71	28	12	8.1	7.0	3.7
26	44	2.1	114	135	369	368	58	30	14	6.4	6.5	3.0
27	14	4.6	72	380	361	322	62	35	15	7.2	5.3	3.3
28	7.8	14	55	371	367	287	135	35	14	6.3	4.9	4.2
29	5.8	79	38	450	---	239	136	29	14	7.1	4.1	6.6
30	70	263	24	422	---	193	122	23	13	7.5	6.7	58
31	36	---	18	347	---	168	---	23	---	6.6	7.5	---
TOTAL	299.0	703.8	1976.9	3101.3	5997	10458	2527	1228	508	296.2	199.5	234.6
MEAN	9.65	23.5	63.8	100	214	337	84.2	39.6	16.9	9.55	6.44	7.82
MAX	70	263	310	450	397	524	147	91	22	13	8.9	58
MIN	2.5	2.0	2.7	3.2	89	168	51	23	12	6.3	3.8	3.0
AC-FT	593	1400	3920	6150	11900	20740	5010	2440	1010	588	396	465
CAL YR 1982	TOTAL	10929.8	MEAN	29.9	MAX	327	MIN	2.0	AC-FT	21680		
WTR YR 1983	TOTAL	27529.3	MEAN	75.4	MAX	524	MIN	2.0	AC-FT	54600		

PAJARO RIVER BASIN

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, 1.5 mi north of the town of Dunneville.

DRAINAGE AREA.--154 mi².

PERIOD OF RECORD.--October 1981 to current year.

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

REMARKS.--Records fair. Flow 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 ft³/s Feb. 16, 1982, gage height, 14.57 ft; no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,580 ft³/s Jan. 27, gage height, 14.53 ft; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	269	115	286	2780	211	380	14	0	3.2	0
2		0	104	93	208	1550	185	217	13	0	3.1	0
3		0	60	80	160	1100	169	159	12	0	2.7	0
4		0	38	68	120	830	154	127	12	0	.01	0
5		0	29	60	108	590	138	105	13	0	1.6	0
6		0	23	52	1300	470	127	101	13	0	2.0	0
7		0	17	48	2700	400	119	83	13	0	1.8	0
8		0	12	40	4000	310	110	72	13	1.5	.34	0
9		0	9.6	35	2000	260	104	67	12	0	.86	0
10		0	6.4	31	800	215	99	75	10	.69	2.5	0
11		0	3.9	28	475	219	93	72	9.9	.47	1.9	0
12		0	2.3	25	700	192	85	61	10	0	.84	0
13		0	1.3	22	890	1390	82	56	8.7	0	.44	0
14		0	.52	20	600	786	80	58	8.7	0	.76	0
15		0	.30	19	350	429	76	52	8.8	.01	1.7	0
16		0	.12	22	250	339	73	46	8.6	1.7	.49	0
17		0	.23	22	150	351	73	42	9.3	1.1	0	0
18		.21	.02	35	330	437	73	32	11	0	0	0
19		100	0	105	250	335	77	33	13	0	0	0
20		45	.02	50	180	294	95	29	9.6	0	0	0
21		30	71	30	150	749	98	28	6.1	0	0	0
22		21	1210	1080	130	518	76	25	7.8	0	0	.08
23		16	1130	1280	155	478	77	22	6.5	.47	0	0
24		11	610	2490	193	1410	137	20	1.6	1.3	0	0
25		5.0	429	1070	388	1060	120	20	.49	1.1	0	0
26		1.5	371	731	1230	581	98	19	0	0	0	0
27		.20	324	3060	1540	480	85	18	0	0	0	0
28		1.7	273	934	1420	416	422	17	0	0	0	0
29		48	220	1620	---	326	515	16	0	.25	0	.54
30		805	170	816	---	273	404	15	0	2.1	0	9.0
31		---	140	435	---	234	---	14	---	1.1	0	---
TOTAL	0	1084.61	5524.71	14516	21063	19802	4255	2081	245.09	11.79	24.24	9.62
MEAN	0	36.2	178	468	752	639	142	67.1	8.17	.38	.78	.32
MAX	0	805	1210	3060	4000	2780	515	380	14	2.1	3.2	9.0
MIN	0	0	0	19	108	192	73	14	0	0	0	0
AC-FT	0	2150	10960	28790	41780	39280	8440	4130	486	23	48	19
CAL YR 1982	TOTAL	36794.81		101	MAX	3300	MIN	0	AC-FT	72980		
WTR YR 1983	TOTAL	68617.06		188	MAX	4000	MIN	0	AC-FT	136100		

RESERVOIRS IN PAJARO RIVER BASIN, CA

11153480 CHESBRO RESERVOIR.--Lat 37°07'00", long 121°41'34", near southwest boundary of Ojo de Agua de la Coche Grant, Santa Clara County, Hydrologic Unit 18060002, at left end of dam on Llagas Creek, and 2.5 mi west of Morgan Hill. DRAINAGE AREA, 19.3 mi². PERIOD OF RECORD, December 1955 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 South Santa Clara Valley Water Conservation District).

Reservoir is formed by earthfill and rockfill dam completed in 1955. Capacity, 8,090 acre-ft between elevations 465 ft, elevation of outlet gates, and 525 ft, crest of spillway. Reservoir is used for flood control and water released down Llagas Creek for irrigation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 8,520 acre-ft Feb. 19, 1980, elevation, 526.5 ft; maximum elevation, 527.4 ft Feb. 24, 1969; no contents at times in 1957, 1960-62, 1973, 1977.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 8,350 acre-ft Jan. 27, elevation, 526.1 ft; minimum observed, 4,740 acre-ft Nov. 8, 9, elevation 510.9 ft.

11154020 UVAS RESERVOIR.--Lat 37°04'02", long 121°41'25", in Las Uvas Grant, Santa Clara County, Hydrologic Unit 18060002, at center of dam on Uvas Creek, and 4.8 mi southwest of Morgan Hill. DRAINAGE AREA, 30.4 mi². PERIOD OF RECORD, December 1957 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 South Santa Clara Valley Water Conservation District).

Reservoir is formed by earthfill and rockfill dam completed in 1957. Capacity, 10,000 acre-ft between elevations 410 ft, hydraulic gate valves, and 487.5 ft, crest of spillway. Water released down Uvas Creek for irrigation; at times diverted into Llagas Creek 3.6 mi below Chesbro Reservoir for ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 11,030 acre-ft Mar. 16, 1967, elevation, 490.5 ft; no contents at times in 1961, 1976, and 1977.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 10,460 acre-ft Jan. 27, elevation, 489.3 ft; minimum observed, 4,730 acre-ft Nov. 18, elevation 465.1 ft.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Chesbro Reservoir	Uvas Reservoir
Sept. 30, 1982..	5,730	5,670
Oct. 31.....	4,750	4,950
Nov. 30.....	5,640	7,700
Dec. 31.....	5,330	9,000
Jan. 31, 1983...	7,570	9,980
Feb. 28.....	7,860	9,980
Mar. 31.....	6,620	9,980
Apr. 30.....	8,090	9,980
May 31.....	8,090	9,980
June 30.....	8,050	9,980
July 31.....	7,460	9,570
Aug. 31.....	6,630	8,370
Sept. 30.....	5,690	7,030

PAJARO RIVER BASIN

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 190 ft, from topographic map.

REMARKS.--Records fair. Flow regulated by Uvas Reservoir (station 11154020) 10 mi upstream. Diversion above station for irrigation.

AVERAGE DISCHARGE.--24 years, 44.7 ft³/s, 32,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,490 ft³/s Feb. 1, 1963, gage height, 17.66 ft, from rating curve extended above 3,300 ft³/s; maximum gage height, 20.21 ft Jan. 5, 1982; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,250 ft³/s Jan. 27, gage height, 13.05 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.63	.32	131	44	506	2860	288	584	32	5.5	0	.28
2	.32	.14	70	39	412	2440	222	395	30	4.7	0	.13
3	.23	.03	50	34	344	1620	220	309	31	4.1	0	0
4	.45	0	40	30	303	1130	209	258	31	3.4	0	0
5	.22	0	32	27	296	821	185	230	31	2.6	0	0
6	.07	0	26	23	340	647	171	211	28	1.8	0	0
7	.06	0	21	21	1250	582	165	181	19	1.1	0	0
8	.02	0	17	19	2340	491	156	162	21	2.7	0	0
9	0	0	15	17	1110	423	149	146	24	1.5	0	0
10	0	0	13	16	670	386	140	134	27	.28	0	0
11	0	.28	17	15	506	378	130	121	24	0	0	0
12	0	.12	17	14	598	331	123	115	22	0	0	0
13	0	0	16	13	587	1510	114	108	21	0	0	0
14	0	0	18	11	449	916	106	101	14	0	0	0
15	0	0	9.4	9.3	386	596	100	96	14	0	0	0
16	0	0	6.6	11	348	517	95	89	12	0	0	0
17	0	0	10	9.0	309	518	92	81	11	.78	0	0
18	.04	321	29	40	393	521	90	73	13	1.0	0	0
19	.12	145	12	123	371	423	86	69	11	.32	0	0
20	.06	55	7.7	142	317	397	90	64	11	0	1.1	0
21	0	33	100	130	298	535	84	60	9.4	0	1.1	0
22	0	23	1900	410	287	507	78	57	9.1	0	1.2	0
23	.09	20	1110	295	291	512	101	53	8.2	0	.51	0
24	.12	14	352	2440	316	841	140	50	7.2	0	.21	0
25	1.3	9.6	200	960	663	684	139	47	5.6	0	0	0
26	5.0	7.2	145	714	857	523	111	44	5.5	0	0	0
27	1.6	5.8	115	3140	1060	523	159	44	6.4	0	0	0
28	.55	26	88	1320	1170	473	1190	45	6.7	.10	0	0
29	.25	247	75	1420	---	396	729	40	6.5	.95	0	0
30	.76	364	61	1010	---	348	782	37	5.8	0	0	0
31	.70	---	51	674	---	315	---	33	---	0	.10	---
TOTAL	12.59	1271.49	4754.7	13170.3	16777	23164	6444	4037	497.4	30.83	4.22	0.41
MEAN	.41	42.4	153	425	599	747	215	130	16.6	.99	.14	.014
MAX	5.0	364	1900	3140	2340	2860	1190	584	32	5.5	1.2	.28
MIN	0	0	6.6	9.0	287	315	78	33	5.5	0	0	0
AC-FT	25	2520	9430	26120	33280	45950	12780	8010	987	61	8.4	.8
CAL YR 1982	TOTAL	47181.13	MEAN	129	MAX	4060	MIN	0	AC-FT	93580		
WTR YR 1983	TOTAL	70163.94	MEAN	192	MAX	3140	MIN	0	AC-FT	139200		

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 mi².

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. Datum of gage is 925.52 ft 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.--Records good. Flow regulated by Hernandez Reservoir 40 mi upstream beginning in December 1961, capacity, 18,700 acre-ft. Small diversion above station for irrigation.

AVERAGE DISCHARGE.--44 years, 27.2 ft³/s, 19,710 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,210 ft³/s Apr. 3, 1958, gage height, 8.35 ft, site and datum then in use, from rating curve extended above 600 ft³/s on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of February 1938, reached a stage of about 9.0 ft former datum, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,540 ft³/s Mar. 2, gage height, 12.01 ft; minimum daily, 3.9 ft³/s Oct. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	5.1	47	11	85	1740	340	330	60	24	41	40
2	49	4.7	21	11	72	3460	321	267	62	22	42	38
3	47	4.4	18	10	62	2200	302	230	59	21	42	35
4	36	4.3	15	9.8	51	1420	287	210	57	19	42	30
5	17	4.2	14	9.1	47	886	280	240	55	18	42	27
6	14	4.3	12	8.4	74	640	266	200	53	18	46	25
7	12	4.3	12	8.1	164	607	249	178	51	18	52	25
8	10	4.4	11	7.9	359	531	235	165	49	19	53	25
9	9.2	8.9	10	7.6	305	447	223	155	48	18	55	24
10	8.3	9.1	9.3	7.2	233	404	203	146	46	18	55	22
11	7.6	6.4	8.4	7.2	193	358	202	138	44	17	56	16
12	6.9	5.7	8.1	7.2	170	306	194	128	43	16	55	13
13	6.1	5.4	7.9	7.0	310	428	186	124	42	14	56	11
14	5.7	5.2	7.8	6.9	277	407	175	121	41	13	56	9.9
15	5.3	5.1	7.5	6.6	218	338	167	115	42	13	59	9.3
16	5.0	5.0	7.5	6.9	188	326	159	109	40	13	58	8.7
17	4.8	4.8	7.5	6.9	169	364	151	102	40	19	58	15
18	4.7	7.1	7.2	10	172	400	166	97	36	22	59	19
19	4.5	9.1	7.2	33	163	325	208	94	35	23	65	20
20	4.2	7.1	7.2	18	149	313	265	90	34	24	65	21
21	4.1	6.3	8.4	13	138	407	295	86	32	24	64	22
22	4.0	6.2	67	40	129	334	267	82	31	23	56	24
23	4.0	6.7	197	177	126	331	236	78	29	27	46	25
24	3.9	6.7	60	225	120	562	256	74	30	35	45	26
25	4.2	6.1	30	120	123	538	246	72	27	39	44	24
26	6.4	5.8	23	98	170	402	211	69	26	40	46	19
27	5.5	5.6	18	610	265	377	198	67	25	40	45	18
28	5.1	6.2	16	212	577	373	364	65	26	41	42	17
29	4.7	12	14	298	---	333	383	63	25	42	39	20
30	5.6	52	13	159	---	356	476	61	24	41	37	32
31	5.6	---	12	112	---	391	---	60	---	41	38	---
TOTAL	358.4	228.2	704.0	2263.8	5109	20304	7511	4016	1212	762	1559	660.9
MEAN	11.6	7.61	22.7	73.0	182	655	250	130	40.4	24.6	50.3	22.0
MAX	49	52	197	610	577	3460	476	330	62	42	65	40
MIN	3.9	4.2	7.2	6.6	47	306	151	60	24	13	37	8.7
AC-FT	711	453	1400	4490	10130	40270	14900	7970	2400	1510	3090	1310
CAL YR 1982	TOTAL	10627.1	MEAN	29.1	MAX	292	MIN	3.9	AC-FT	21080		
WTR YR 1983	TOTAL	44688.3	MEAN	122	MAX	3460	MIN	3.9	AC-FT	88640		

PAJARO RIVER BASIN

11157500 TRES PINOS CREEK NEAR TRES PINOS, CA

LOCATION.--Lat 36°45'13", long 121°17'03", in Santa Ana y Quien Sabe Grant, San Benito County, Hydrologic Unit 18060002, on right bank 3.5 mi southeast of Tres Pinos, and 6.2 mi upstream from mouth.

DRAINAGE AREA.--206 mi².

PERIOD OF RECORD.--October 1939 to September 1983 (discontinued). Yearly estimate only for 1940 and monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1715: Drainage area.

GAGE.--Water-stage recorder. Concrete control since June 3, 1954 (control ineffective since 1955 due to gravel fill). Altitude of gage is 570 ft, from topographic map.

REMARKS.--Records poor. No regulation; diversions above station for irrigation can divert total flow in summer months, and since 1962, diversions into basin above station from San Benito River for percolation and irrigation.

AVERAGE DISCHARGE (unadjusted).--44 years, 16.2 ft³/s, 11,740 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,790 ft³/s Jan. 27, 1983, gage height, 11.14 ft, from rating curve extended above 3,500 ft³/s; no flow at times in 1952, 1957-61, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1938 reached a stage of about 9.0 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	2130	768	5.57	Feb. 8	0130	3,370	8.20
Dec. 22	1930	3,590	8.36	Feb. 13	1415	482	4.80
Jan. 24	0645	5,150	9.35	Feb. 28	2030	7,180	10.41
Jan. 27	0300	*8,790	11.14				

Minimum daily, 3.1 ft³/s June 10-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	4.5	266	4.4	172	2430	117	74	5.2	4.5	11	14
2	10	4.5	30	4.3	136	3300	101	58	5.5	4.5	11	14
3	10	4.5	9.3	4.2	119	1000	89	52	4.8	4.7	11	14
4	7.9	4.5	6.4	4.2	110	500	84	48	4.8	5.1	10	14
5	5.1	4.5	6.8	4.0	103	250	77	47	4.5	5.3	9.9	14
6	5.0	4.5	7.0	3.9	121	195	68	49	4.2	5.4	9.7	14
7	5.0	4.5	7.6	3.9	492	200	62	47	3.8	5.2	10	14
8	5.0	4.5	7.7	3.9	1680	180	57	45	3.6	5.3	9.9	15
9	4.9	4.9	8.1	3.7	584	165	55	44	3.3	5.2	9.5	15
10	4.9	4.6	8.0	3.7	315	155	54	43	3.1	5.1	11	15
11	4.8	4.5	7.5	3.7	195	150	53	42	3.1	5.4	12	15
12	4.8	4.5	7.8	3.5	175	140	53	41	3.1	5.4	5.6	14
13	4.8	4.5	8.2	3.5	393	200	53	41	3.1	5.6	5.2	14
14	4.6	4.5	8.6	3.5	220	185	50	40	4.0	5.8	6.0	14
15	4.6	4.4	8.8	3.4	185	165	49	39	6.4	6.4	5.6	14
16	4.6	4.4	9.3	3.2	175	155	48	38	6.4	6.6	5.1	14
17	4.6	4.4	9.5	3.2	170	175	45	37	6.3	6.6	5.1	14
18	4.6	4.6	9.9	3.2	370	190	46	36	6.0	6.6	5.2	14
19	4.6	4.4	10	12	139	155	47	35	5.6	6.6	6.0	14
20	4.6	4.4	10	5.9	92	150	48	34	5.6	6.8	5.6	14
21	4.6	4.4	11	4.5	79	165	52	33	5.1	7.0	5.4	14
22	4.6	4.4	765	143	73	160	49	31	4.7	7.2	6.8	14
23	4.6	4.4	614	142	74	160	45	10	4.7	7.2	9.3	14
24	4.6	4.4	100	1320	96	265	69	8.8	4.6	7.2	9.6	14
25	4.8	4.4	29	254	89	245	63	8.0	4.9	7.4	11	14
26	4.7	4.4	15	220	185	205	54	7.2	4.6	7.4	14	14
27	4.7	4.4	9.3	2670	461	185	49	6.4	4.7	7.4	14	14
28	4.6	4.5	6.4	385	1630	178	84	5.9	4.5	7.5	14	14
29	4.7	27	5.3	1520	---	160	70	5.5	4.4	7.4	14	14
30	4.6	476	4.9	503	---	175	79	5.3	4.5	8.5	14	14
31	4.5	---	4.5	268	---	180	---	5.1	---	10	14	---
TOTAL	165.4	628.4	2010.9	7514.8	8633	12118	1870	1016.2	139.1	196.3	290.5	424
MEAN	5.34	20.9	64.9	242	308	391	62.3	32.8	4.64	6.33	9.37	14.1
MAX	10	476	765	2670	1680	3300	117	74	6.4	10	14	15
MIN	4.5	4.4	4.5	3.2	73	140	45	5.1	3.1	4.5	5.1	14
AC-FT	328	1250	3990	14910	17120	24040	3710	2020	276	389	576	841
CAL YR 1982	TOTAL	13835.3	MEAN	37.9	MAX	1120	MIN	2.9	AC-FT	27440		
WTR YR 1983	TOTAL	35006.6	MEAN	95.9	MAX	3300	MIN	3.1	AC-FT	69440		

11158500 SAN BENITO RIVER NEAR HOLLISTER, CA

LOCATION.--Lat 36°47'17", long 121°22'11", in SW 1/4 sec.24, T.13 S., R.5 E., San Benito County, Hydrologic Unit 18060002, on left bank 1,500 ft downstream from Bird Creek, 0.9 mi downstream from Tres Pinos Creek, 2.7 mi west of Tres Pinos, and 4.8 mi southeast of Hollister.

DRAINAGE AREA.--586 mi².

PERIOD OF RECORD.--October 1949 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 359.3 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for period of no gage-height record, Mar. 24 to July 28, which is poor. Flow regulated by Hernandez Reservoir 67 mi upstream beginning in December 1961, capacity, 18,700 acre-ft. Several small diversions above station for irrigation.

AVERAGE DISCHARGE.--34 years, 37.3 ft³/s, 27,020 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft³/s Mar. 2, 1983, gage height, 16.34 ft, from rating curve extended above 1,200 ft³/s on basis of flood-routing study; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,600 ft³/s Mar. 2, gage height, 16.34 ft, from rating curve extended above 539 ft³/s; minimum daily, 5.3 ft³/s Oct. 21-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	8.4	573	61	289	7250	590	600	61	12	9.0	21
2	25	7.5	188	58	224	8390	560	470	57	12	8.6	20
3	26	6.9	91	56	147	4000	520	420	53	11	6.9	19
4	25	6.6	58	56	119	1900	500	375	50	11	7.7	19
5	23	6.4	43	55	101	1190	485	350	47	10	6.3	19
6	18	6.5	36	51	127	1010	465	320	45	9.6	5.8	19
7	15	6.4	30	48	708	992	430	295	42	9.3	8.4	19
8	13	6.6	26	47	2280	906	410	280	40	8.8	14	20
9	11	9.6	23	46	1330	812	385	260	37	8.5	16	20
10	9.7	23	21	45	666	717	355	250	35	8.2	16	20
11	8.9	18	20	44	495	677	350	230	33	7.9	18	20
12	8.3	14	20	44	285	637	345	220	31	7.6	18	18
13	7.3	13	19	43	730	799	320	205	30	7.3	26	12
14	6.6	12	19	42	640	758	305	195	28	7.1	30	9.7
15	6.1	11	18	41	510	777	290	180	27	6.8	33	9.7
16	6.8	11	18	43	450	787	280	170	25	6.5	33	9.7
17	5.8	11	18	58	400	793	270	160	24	6.3	34	10
18	5.8	17	17	100	410	779	300	150	23	6.1	36	12
19	5.8	26	17	200	380	773	380	140	21	5.9	37	12
20	5.5	19	17	120	365	798	450	130	20	5.8	39	11
21	5.3	14	19	90	335	587	500	120	19	5.9	40	10
22	5.3	13	811	300	315	539	460	115	18	5.6	41	11
23	5.3	12	1340	600	295	540	420	105	17	6.6	35	12
24	5.3	12	417	1400	290	970	450	100	17	8.4	32	12
25	5.4	11	217	580	300	910	420	93	16	9.3	32	12
26	7.6	11	134	283	502	700	380	88	15	9.7	27	12
27	8.7	10	109	3890	861	660	350	83	14	10	25	12
28	7.9	11	86	1110	2190	630	520	77	14	10	25	12
29	7.2	28	77	2060	---	590	660	73	13	9.8	25	14
30	8.9	617	69	859	---	630	810	68	13	8.8	20	23
31	10	---	62	340	---	680	---	63	---	8.9	19	---
TOTAL	334.5	978.9	4613	12770	15744	42181	12960	6385	885	260.7	723.7	450.1
MEAN	10.8	32.6	149	412	562	1361	432	206	29.5	8.41	23.3	15.0
MAX	26	617	1340	3890	2280	8390	810	600	61	12	41	23
MIN	5.3	6.4	17	41	101	539	270	63	13	5.6	5.8	9.7
AC-FT	663	1940	9150	25330	31230	83670	25710	12660	1760	517	1440	893
CAL YR 1982	TOTAL	21204.4	MEAN	58.3	MAX	1340	MIN	4.1	AC-FT	42060		
WTR YR 1983	TOTAL	98285.9	MEAN	270	MAX	8390	MIN	5.3	AC-FT	195000		

PAJARO RIVER BASIN

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 260 ft, from topographic map.

REMARKS.--Records poor. Flow regulated by Hernandez Reservoir 73 mi upstream, capacity, 18,700 acre-ft. Some small diversions above station for irrigation.

AVERAGE DISCHARGE.--13 years, 43.9 ft³/s, 31,810 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,900 ft³/s Mar. 1, 1983, gage height, 11.97 ft, from rating curve extended above 4,050 ft³/s; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,900 ft³/s Mar. 1, gage height, 11.97 ft; minimum daily, 2.6 ft³/s Oct. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	4.5	678	33	270	8860	517	516	43	6.0	5.4	13
2	13	4.0	207	31	220	7900	486	407	39	5.8	4.9	12
3	13	3.7	79	30	150	4530	459	363	37	5.6	4.2	11
4	13	3.5	42	30	119	2380	442	340	34	5.4	4.8	11
5	11	3.4	28	30	100	1500	425	333	32	5.2	3.7	11
6	8.9	3.5	23	28	290	1240	410	324	30	5.0	3.5	11
7	6.5	3.4	20	26	800	1200	398	313	27	4.9	6.2	12
8	4.7	3.5	18	25	2020	1010	382	302	25	4.7	8.3	12
9	3.7	5.0	16	25	1200	879	369	260	23	4.5	9.6	12
10	3.0	12	16	24	840	795	362	240	22	4.3	10	12
11	3.8	9.4	14	24	450	774	352	220	20	4.2	11	12
12	2.7	7.6	14	23	290	736	348	200	19	4.0	13	11
13	2.6	7.0	14	23	720	903	342	190	18	4.0	16	7.6
14	3.4	6.4	12	23	610	944	331	170	17	3.9	18	5.8
15	3.2	6.1	10	22	510	767	328	160	16	3.8	20	5.8
16	3.6	6.0	9.6	22	440	708	324	150	14	3.7	20	5.9
17	3.0	5.9	9.6	23	400	784	320	135	13	3.6	21	6.3
18	3.0	9.0	9.6	42	440	1060	315	123	12	3.5	22	7.2
19	3.0	27	9.6	105	480	914	313	112	12	3.5	23	7.3
20	2.9	17	9.6	50	420	748	328	104	11	3.5	24	6.3
21	2.8	10	14	35	350	988	346	96	10	3.4	25	6.3
22	2.8	8.5	459	61	310	830	342	89	9.6	3.8	24	6.3
23	2.8	9.4	1270	355	290	793	323	81	9.0	4.3	21	6.8
24	2.8	7.9	367	1190	340	1160	336	76	8.4	5.0	19	10
25	2.8	7.2	149	445	430	1220	335	71	8.0	5.6	19	12
26	3.9	6.5	96	222	671	876	317	65	7.7	5.9	16	14
27	4.6	6.5	72	2930	1310	778	297	62	6.8	6.2	15	14
28	4.1	9.4	55	994	2360	757	345	56	6.8	6.2	15	13
29	3.8	23	47	2200	---	674	486	53	6.4	5.9	15	12
30	4.6	452	37	900	---	624	508	49	6.2	5.4	12	21
31	5.2	---	34	400	---	564	---	46	---	5.4	12	---
TOTAL	161.2	688.3	3839.0	10371	16830	47896	11186	5706	542.9	146.2	441.6	307.6
MEAN	5.20	22.9	124	335	601	1545	373	184	18.1	4.72	14.2	10.3
MAX	13	452	1270	2930	2360	8860	517	516	43	6.2	25	21
MIN	2.6	3.4	9.6	22	100	564	297	46	6.2	3.4	3.5	5.8
AC-FT	320	1370	7610	20570	33380	95000	22190	11320	1080	290	876	610

CAL YR 1982 TOTAL 14954.00 MEAN 41.0 MAX 1270 MIN 0 AC-FT 29660
WTR YR 1983 TOTAL 98115.8 MEAN 269 MAX 8860 MIN 2.6 AC-FT 194600

NOTE.--No gage-height record Oct. 13 to Nov. 18, Dec. 30 to Jan. 20, Jan. 28 to Feb. 25, May 9 to Sept. 19.

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 mi².

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. Datum of gage is 82.28 ft National Geodetic Vertical Datum of 1929. Prior to May 13, 1949, nonrecording gage on former bridge 100 ft downstream at same datum except that water-stage recorder, also 100 ft downstream and at same datum, was used Dec. 20, 1946, to June 11, 1947, June 21 to Sept. 23, 1947, and Dec. 19, 1947, to May 6, 1948. May 7, 1948, to Aug. 19, 1975, at downstream side of right bank pier of bridge at same datum.

REMARKS.--Records fair. Flow regulated by Hernandez Reservoir, capacity, 18,700 acre-ft, Pacheco Lake, capacity, 6,150 acre-ft, Chesbro Reservoir (station 11153480), Uvas Reservoir (station 11154020), and San Felipe Lake. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--44 years, 163 ft³/s, 118,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,000 ft³/s Dec. 24, 1955, gage height, 32.46 ft, from rating curve extended above 8,300 ft³/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.--Maximum discharge, 15,800 ft³/s Mar. 2, gage height, 28.03 ft; minimum daily, 7.3 ft³/s Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	18	1530	280	2250	11400	1470	2650	224	32	24	19
2	7.3	15	752	230	1810	14200	1310	1900	217	32	24	19
3	7.7	14	490	200	1510	12500	1240	1500	209	31	25	19
4	7.6	14	357	175	1220	7750	1200	1200	187	29	25	19
5	8.1	13	273	152	902	5100	1150	1060	170	27	24	20
6	10	14	214	140	1050	3880	1050	937	152	26	23	21
7	9.0	14	172	130	3140	3470	1000	805	139	26	22	19
8	9.6	16	142	119	7900	2870	970	736	125	29	24	17
9	9.5	18	118	110	6850	2360	930	680	115	28	23	16
10	9.5	32	99	101	3900	2050	870	620	105	29	20	15
11	9.3	27	86	97	2510	2090	840	575	98	27	22	16
12	8.1	21	80	91	2120	1670	800	530	90	25	21	16
13	8.7	18	74	94	2420	3950	780	495	83	26	20	17
14	8.4	17	68	88	2140	4550	740	470	77	28	19	16
15	8.5	17	69	79	1850	2940	700	445	72	29	20	15
16	8.8	17	95	84	1500	2500	670	430	68	29	20	15
17	8.2	17	115	82	1350	2740	640	450	63	28	21	15
18	7.9	156	117	111	1400	3480	620	440	60	25	21	14
19	8.1	614	116	382	1300	2810	600	404	56	24	20	14
20	7.9	203	116	324	1170	2190	570	405	53	24	21	14
21	8.3	140	148	290	1090	3420	650	374	52	24	20	14
22	8.6	107	1730	925	1000	2960	610	355	49	23	19	14
23	9.4	83	4990	2840	857	2940	554	338	47	24	19	14
24	9.8	69	2580	6010	1050	5360	711	324	45	23	21	14
25	11	56	1530	5900	1300	6000	748	314	43	25	24	14
26	22	47	1140	3000	3230	3880	689	301	41	25	27	14
27	19	40	800	9500	3460	3170	664	277	38	23	25	16
28	13	77	630	7890	3730	2950	1610	270	38	22	25	15
29	11	443	490	6720	---	2330	2800	252	36	21	24	16
30	25	1400	400	5420	---	1890	4500	244	35	23	23	29
31	21	---	330	3240	---	1640	---	231	---	24	20	---
TOTAL	328.0	3737	19851	54804	64009	131040	31686	20012	2787	811	686	496
MEAN	10.6	125	640	1768	2286	4227	1056	646	92.9	26.2	22.1	16.5
MAX	25	1400	4990	9500	7900	14200	4500	2650	224	32	27	29
MIN	7.3	13	68	79	857	1640	554	231	35	21	19	14
AC-FT	651	7410	39370	108700	127000	259900	62850	39690	5530	1610	1360	984

CAL YR 1982 TOTAL 166276.2 MEAN 456 MAX 10600 MIN 7.1 AC-FT 329800
WTR YR 1983 TOTAL 330247.0 MEAN 905 MAX 14200 MIN 7.3 AC-FT 655000

PAJARO RIVER BASIN

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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	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 SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC 14...	1330	66	1230	7.9	10.0	770	5.5	8.7	77	K17000	K14000
MAR 23...	1100	2820	569	7.7	12.0	765	750	9.9	92	2500	9100
JUN 20...	1400	49	1080	8.0	22.0	760	35	8.3	96	400	780
SEP 14...	1215	17	1260	8.0	20.0	760	14	8.6	95	470	300

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- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC 14...	440	130	80	59	92	31	2	5.2	314	210	90
MAR 23...	220	58	40	28	41	29	1	2.5	158	80	45
JUN 20...	460	120	81	63	94	31	2	3.0	347	190	92
SEP 14...	500	71	88	67	99	30	2	4.2	426	140	95

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 CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	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 14...	.20	21	758	750	1.0	--	--	--	--	--	--
MAR 23...	.30	19	350	350	.48	--	.19	--	.16	.11	.090
JUN 20...	.30	22	781	750	1.1	5.8	.06	1.4	.23	.15	.100
SEP 14...	.30	27	768	780	1.0	6.1	.08	1.9	.25	.19	.190

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

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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)
DEC 14...	1330	20	2	110	<.5	<1	<1	<3	2	26	<1
MAR 23...	1100	40	2	58	.8	<1	<1	<3	2	57	1
JUN 20...	1400	10	2	120	<.5	<1	<1	<3	2	15	1
SEP 14...	1215	<10	2	110	<.5	<1	<1	<3	2	9	<1

	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	HOLYB- 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)
DEC 14...	22	--	<.1	<10	9	2	<1	570	<6	57
MAR 23...	22	32	<.1	<10	7	1	<1	380	<6	11
JUN 20...	--	56	<.1	<10	9	2	1	600	<6	26
SEP 14...	34	23	<.1	<10	7	<1	<1	650	<6	11

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 .031 MM
DEC 14...	1315	68	10.0	17	3.1	--	--	--	--	--
MAR 23...	1345	2720	13.0	2230	16400	21	28	37	46	56
JUN 20...	1345	49	22.0	279	37	--	--	--	--	--
SEP 14...	1300	16	22.0	135	5.8	--	--	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
DEC 14...	--	82	--	90	--	100	--	--	--
MAR 23...	66	--	80	--	98	--	100	--	--
JUN 20...	--	28	--	33	--	55	--	97	100
SEP 14...	--	41	--	--	--	--	--	--	--

PAJARO RIVER BASIN

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 80 ft, from topographic map.

REMARKS.--Records fair. No regulation; Watsonville Water Works can divert up to 8.0 ft³/s daily above station for municipal supply, domestic use, and irrigation.

AVERAGE DISCHARGE.--27 years, 16.7 ft³/s, 12,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,610 Jan. 4, 1982, gage height, 16.66 ft; 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 ft³/s, on basis of contracted-opening measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	1445	940	7.67	Feb. 8	0300	977	7.59
Nov. 28	2200	637	6.79	Feb. 25	1630	1,300	8.54
Dec. 22	1630	1,250	8.52	Mar. 1	0530	1,200	8.26
Jan. 24	0330	*2,150	10.57	Mar. 13	0845	1,100	7.97
Jan. 26	2130	2,050	10.36				

Minimum daily discharge, 0.25 ft³/s Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.89	18	10	148	802	82	146	14	6.0	1.8	.99
2	.26	.82	11	9.5	134	741	73	105	14	5.9	1.7	.97
3	.27	1.2	8.1	8.7	120	394	67	84	13	5.8	1.7	.94
4	.28	1.6	6.8	8.1	110	286	62	73	13	5.7	1.6	.95
5	.27	2.4	5.9	7.6	115	208	56	69	12	5.6	1.4	.96
6	.27	4.0	5.3	7.3	171	166	51	62	12	5.5	1.2	.98
7	.31	3.8	4.7	6.9	608	158	48	54	11	5.4	1.1	1.0
8	.44	3.9	4.4	6.6	557	124	45	48	11	5.3	1.0	.93
9	.49	5.7	4.1	6.3	229	110	43	44	10	5.3	1.0	.91
10	.42	5.6	3.9	6.0	152	109	42	41	10	5.2	1.1	.89
11	.33	1.6	3.7	5.5	119	96	40	38	9.9	5.1	1.1	.88
12	.27	1.3	3.6	5.3	243	89	39	35	9.6	5.1	1.1	.87
13	.26	1.2	3.5	5.1	173	444	37	31	9.3	5.0	1.1	.89
14	.25	1.2	3.4	4.8	131	192	35	30	9.0	5.0	1.1	.88
15	.30	1.2	3.3	4.9	117	134	34	28	8.7	5.0	1.0	.93
16	.41	1.2	3.5	5.1	107	139	33	27	8.5	5.0	.97	.95
17	.32	1.2	8.6	4.9	93	144	32	26	8.2	4.9	1.0	.90
18	.29	223	5.1	73	126	148	31	25	7.9	4.9	1.0	.86
19	.52	31	4.4	49	104	116	31	24	7.7	4.9	1.1	1.1
20	.38	10	4.6	35	93	143	30	23	7.5	4.9	1.1	.87
21	.38	7.0	130	32	85	147	29	22	7.3	4.9	1.0	.85
22	.36	5.5	396	254	79	175	28	21	7.1	4.8	1.0	.90
23	.42	4.7	132	146	84	197	46	20	6.9	4.9	1.1	.88
24	.39	4.0	60	695	87	234	49	19	6.8	4.9	1.1	.85
25	1.4	3.6	40	228	340	171	47	19	6.7	4.8	1.1	.87
26	3.1	3.2	29	448	254	136	39	18	6.6	4.9	1.0	.89
27	.92	3.0	23	579	257	204	121	17	6.5	4.6	1.0	.90
28	.77	63	19	292	380	147	363	17	6.4	2.6	1.0	.89
29	.78	37	16	315	---	122	186	16	6.3	2.2	1.0	.93
30	2.2	53	14	228	---	105	207	15	6.1	2.0	1.1	7.3
31	1.3	---	12	176	---	93	---	15	---	1.9	1.0	---
TOTAL	18.66	486.81	986.9	3662.6	5216	6474	2026	1212	273.0	148.0	35.57	33.91
MEAN	.60	16.2	31.8	118	186	209	67.5	39.1	9.10	4.77	1.15	1.13
MAX	3.1	223	396	695	608	802	363	146	14	6.0	1.8	7.3
MIN	.25	.82	3.3	4.8	79	89	28	15	6.1	1.9	.97	.85
AC-FT	37	966	1960	7260	10350	12840	4020	2400	541	294	71	67

CAL YR 1982 TOTAL 16764.59 MEAN 45.9 MAX 2290 MIN .22 AC-FT 33250
WTR YR 1983 TOTAL 20573.45 MEAN 56.4 MAX 802 MIN .25 AC-FT 40810

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 mi².

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

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

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--12 years, 10.8 ft³/s, 7,850 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,980 ft³/s Jan. 4, 1982, gage height, 12.1 ft, from rating curve extended above 340 ft³/s; minimum daily, 0.36 ft³/s July 30 to Aug. 2, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 22	Unknown	Unknown	Unknown	Feb. 25	1515	887	9.80
Jan. 24	0245	*1,030	10.31	Mar. 1	0500	445	7.90
Feb. 8	0215	319	7.21	Mar. 16	0945	251	6.78
Feb. 12	0500	193	6.38	Apr. 28	0645	301	7.10

Minimum daily, 1.9 ft³/s several days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	5.6	23	6.4	43	357	42	85	12	7.2	4.9	4.2
2	2.1	3.8	14	5.8	37	333	38	52	12	7.2	4.9	4.2
3	2.1	3.0	11	5.1	32	241	35	41	12	7.1	4.8	3.9
4	2.1	2.6	8.6	4.6	28	226	33	36	12	7.1	4.8	4.4
5	2.1	2.4	6.9	4.2	30	166	31	33	11	7.0	4.8	4.2
6	2.1	2.3	6.0	3.6	63	141	29	31	11	6.8	4.7	4.2
7	2.1	2.2	5.3	3.5	206	136	27	28	10	6.7	4.7	4.2
8	2.1	2.1	4.9	3.3	195	111	26	26	10	6.6	4.7	4.0
9	1.9	3.1	4.4	3.1	84	124	25	25	10	6.5	4.4	3.8
10	1.9	5.0	4.0	2.5	68	124	24	23	10	6.4	4.4	3.8
11	1.9	4.0	3.7	2.3	57	138	24	22	9.8	6.2	4.4	3.8
12	1.9	3.1	3.4	2.1	139	109	23	21	9.8	6.2	4.4	3.6
13	1.9	2.6	4.4	2.1	78	132	22	21	9.5	6.1	4.4	3.4
14	1.9	2.9	3.8	1.9	54	120	21	20	9.5	6.0	4.3	3.3
15	1.9	2.3	3.3	1.9	46	151	20	19	9.2	5.6	4.3	3.3
16	1.9	2.2	3.0	2.0	41	187	20	18	9.1	5.5	4.2	3.3
17	1.9	2.1	6.7	1.9	35	165	19	18	8.9	5.5	4.2	3.1
18	2.1	60	4.7	27	46	129	20	17	8.6	5.5	4.1	3.0
19	2.1	20	3.6	23	38	81	19	16	8.8	5.5	4.6	3.0
20	2.1	6.0	3.6	11	33	83	19	16	8.2	5.6	5.0	3.0
21	2.1	4.5	233	7.7	29	86	18	15	8.2	5.4	4.7	3.0
22	2.1	4.2	261	158	27	103	17	15	8.1	5.2	4.4	3.2
23	4.6	5.5	77	67	28	91	26	15	8.1	5.2	4.3	3.4
24	6.4	4.3	29	274	29	118	25	14	8.0	5.2	4.1	3.5
25	8.4	3.4	20	70	211	102	23	14	8.0	5.2	4.1	3.2
26	10	2.8	16	133	146	82	19	14	7.7	5.2	4.2	3.1
27	3.2	5.1	14	173	139	111	54	13	7.6	5.1	4.0	3.1
28	2.3	24	11	88	229	80	183	13	7.6	5.0	4.2	3.1
29	3.3	44	9.9	109	---	64	74	12	7.6	55	4.5	3.2
30	7.6	97	8.4	76	---	54	141	12	7.3	4.9	4.4	4.0
31	5.0	---	7.2	55	---	47	---	12	---	4.9	4.6	---
TOTAL	95.2	332.1	814.8	1328.0	2191	4192	1097	717	279.6	232.6	138.5	106.5
MEAN	3.07	11.1	26.3	42.8	78.2	135	36.6	23.1	9.32	7.50	4.47	3.55
MAX	10	97	261	274	229	357	183	85	12	55	5.0	4.4
MIN	1.9	2.1	3.0	1.9	27	47	17	12	7.3	4.9	4.0	3.0
AC-FT	189	659	1620	2630	4350	8310	2180	1420	555	461	275	211

CAL YR 1982 TOTAL 10475.0 MEAN 28.7 MAX 1670 MIN 1.9 AC-FT 20780
WTR YR 1983 TOTAL 11524.3 MEAN 31.6 MAX 357 MIN 1.9 AC-FT 22860

NOTE.--No gage-height record Oct. 24 to Dec. 22, Mar. 18-30, June 20 to Sept. 30.

SOQUEL CREEK BASIN

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 mi².

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

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

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

REMARKS.--Records poor. No regulation; small diversion above station for irrigation.

AVERAGE DISCHARGE.--32 years, 46.1 ft³/s, 33,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s Dec. 23, 1955, gage height, 22.33 ft, from rating curve extended above 2,900 ft³/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 above base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	1215	1,720	7.62	Feb. 25	1515	6,960	14.70
Dec. 22	1530	1,810	7.50	Mar. 2	Unknown	7,260	15.01
Jan. 24	0245	*7,290	15.05	Mar. 13	0700	2,320	8.70
Feb. 8	0315	2,080	8.29	Mar. 26	0200	1,180	6.48
Feb. 12	0430	1,360	6.88	Apr. 28	Unknown	1,410	6.98

Minimum daily, 3.9 ft³/s Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	11	116	104	499	1500	165	350	38	21	12	8.8
2	5.3	10	67	96	477	3300	145	254	39	21	12	8.6
3	5.0	9.3	40	92	439	1300	133	209	39	20	11	8.2
4	4.9	8.8	34	91	406	800	124	185	38	19	11	8.2
5	4.8	8.4	27	83	415	600	116	199	36	19	11	8.0
6	4.7	8.1	24	75	554	520	107	157	35	19	11	8.2
7	4.6	7.9	21	65	1170	480	103	123	34	19	11	8.4
8	4.3	8.8	19	62	1110	440	99	112	33	18	11	8.3
9	4.1	11	18	59	590	405	97	102	32	17	11	7.9
10	4.0	16	17	54	528	380	95	94	32	17	11	7.5
11	4.0	12	16	52	494	370	92	88	31	16	10	7.3
12	3.9	10	16	52	899	343	90	82	30	16	10	7.1
13	4.1	9.4	15	47	569	967	89	78	29	15	10	7.1
14	4.1	8.6	15	44	488	446	87	73	28	15	10	7.4
15	4.0	8.2	14	46	472	345	86	69	28	15	10	7.7
16	4.2	8.2	16	47	442	372	86	65	27	14	10	7.7
17	4.2	8.1	43	44	400	341	88	62	26	14	10	8.0
18	4.2	560	30	290	487	320	90	60	26	14	10	7.9
19	4.2	75	19	122	384	282	91	57	26	14	11	7.9
20	3.9	27	20	47	345	381	93	55	25	13	12	7.7
21	4.2	22	1700	37	316	384	86	52	25	13	12	7.6
22	4.5	29	1760	1100	287	463	80	51	25	13	11	8.8
23	4.6	30	447	434	292	583	197	49	24	13	10	9.3
24	4.8	19	300	2300	301	413	201	48	24	13	10	9.3
25	43	16	256	458	1270	351	161	47	23	13	10	9.2
26	81	14	222	784	501	576	121	45	23	12	9.9	8.8
27	15	13	196	917	631	332	490	44	23	12	9.7	8.8
28	10	185	173	614	960	261	704	43	22	12	9.1	8.8
29	11	210	150	781	---	233	433	41	22	12	9.3	8.5
30	26	391	129	591	---	207	544	40	22	12	9.5	8.4
31	15	---	115	549	---	187	---	38	---	12	9.2	---
TOTAL	307.2	1754.8	6035	10137	15726	17882	5093	2972	865	473	324.7	245.4
MEAN	9.91	58.5	195	327	562	577	170	95.9	28.8	15.3	10.5	8.18
MAX	81	560	1760	2300	1270	3300	704	350	39	21	12	9.3
MIN	3.9	7.9	14	37	287	187	80	38	22	12	9.1	7.1
AC-FT	609	3480	11970	20110	31190	35470	10100	5890	1720	938	644	487

CAL YR 1982 TOTAL 38060.3 MEAN 104 MAX 4300 MIN 3.8 AC-FT 75490
WTR YR 1983 TOTAL 61815.1 MEAN 169 MAX 3300 MIN 3.9 AC-FT 122600

NOTE.--No gage-height record Dec. 5-22, Feb. 28 to Mar. 11, Mar. 18, Apr. 4-29, Apr. 30 to May 6, July 14 to Aug. 17.

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 mi².

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

GAGE.--Water-stage recorder. Concrete control since Sept. 1, 1971. Altitude of gage is 710 ft, from topographic map.

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

AVERAGE DISCHARGE.--15 years, 7.99 ft³/s, 5,790 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft³/s Jan. 4, 1982, gage height, 11.48 ft, from rating curve extended above 230 ft³/s on basis of computation of flow through culvert at gage height 8.48 ft; minimum daily, 0.08 ft³/s Aug. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 90 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	0345	130	4.01	Feb. 12	0530	157	4.29
Dec. 22	1400	472	7.17	Feb. 25	1630	318	5.86
Jan. 24	0100	*851	10.08	Mar. 2	0900	774	9.52
Jan. 27	0515	315	5.82	Mar. 13	0715	343	6.07
Feb. 8	0115	290	5.59	Apr. 28	1045	101	3.69

Minimum daily, 0.90 ft³/s Nov. 4, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.2	21	8.1	42	290	33	53	7.5	3.6	2.5	1.9
2	.99	1.0	12	7.5	39	527	29	38	7.2	3.6	2.6	1.8
3	1.0	.96	8.8	6.9	35	294	26	31	6.9	3.6	2.5	1.7
4	1.0	.90	7.0	6.5	31	162	22	26	6.3	3.4	2.5	1.7
5	.98	.95	5.7	6.2	32	122	20	26	6.0	3.3	2.4	1.6
6	.98	1.0	4.7	5.9	48	101	18	23	5.9	3.2	2.3	1.6
7	.98	1.0	3.8	5.7	124	97	17	22	5.8	3.4	2.2	1.6
8	.98	1.2	2.9	5.4	189	85	15	21	5.7	3.3	2.3	1.6
9	.98	1.5	2.5	5.1	89	75	13	21	5.7	3.0	2.3	1.5
10	.98	1.3	2.3	4.9	58	70	11	21	5.5	3.1	2.4	1.5
11	.98	1.2	2.2	4.8	44	65	10	19	5.5	3.8	2.3	1.5
12	.98	1.1	2.1	4.5	121	66	9.5	17	5.3	3.6	2.2	1.6
13	.98	1.0	2.1	4.5	80	182	9.4	17	5.1	3.6	2.2	1.6
14	.98	.90	1.9	4.5	59	94	9.4	16	5.1	3.5	2.2	1.6
15	.98	1.0	1.9	4.5	51	72	9.2	15	4.8	3.5	2.1	1.5
16	.98	1.2	1.9	5.0	44	66	9.7	14	4.8	3.4	2.0	1.5
17	.98	1.1	3.2	4.9	39	59	9.7	13	4.6	2.9	2.0	1.5
18	.98	24	2.3	14	47	54	9.4	12	4.5	2.9	2.1	1.4
19	.98	10	2.1	13	39	48	9.9	11	4.5	2.9	2.1	1.4
20	.98	5.8	2.5	8.5	35	49	9.4	10	4.5	2.8	2.1	1.3
21	.98	4.5	131	7.2	32	49	9.1	9.6	4.5	2.9	2.0	1.4
22	.98	4.4	169	133	30	55	8.7	9.4	4.4	3.0	1.9	1.5
23	1.1	4.3	68	104	29	56	15	9.0	4.2	2.8	1.9	1.5
24	1.2	3.8	24	261	26	68	13	8.6	4.2	2.8	1.9	1.5
25	4.0	3.4	20	62	104	64	13	8.2	4.0	2.8	2.1	1.4
26	3.3	3.3	17	41	77	57	11	8.0	4.0	3.0	2.1	1.4
27	1.5	3.5	14	206	85	65	12	7.8	4.0	2.9	2.0	1.6
28	1.0	9.8	12	98	214	54	64	7.6	4.0	2.9	2.0	1.5
29	1.5	17	11	93	---	48	42	7.5	3.9	2.8	1.9	1.5
30	3.4	49	9.7	66	---	43	77	7.4	3.6	2.7	1.9	2.4
31	1.5	---	8.8	51	---	40	---	7.5	---	2.5	1.9	---
TOTAL	40.33	161.31	577.4	1252.6	1843	3177	564.4	516.6	152.0	97.5	66.9	47.1
MEAN	1.30	5.38	18.6	40.4	65.8	102	18.8	16.7	5.07	3.15	2.16	1.57
MAX	4.0	49	169	261	214	527	77	53	7.5	3.8	2.6	2.4
MIN	.98	.90	1.9	4.5	26	40	8.7	7.4	3.6	2.5	1.9	1.3
AC-FT	80	320	1150	2480	3660	6300	1120	1020	301	193	133	93
CAL YR 1982	TOTAL	5787.14	MEAN	15.9	MAX	505	MIN	.90	AC-FT	11480		
WTR YR 1983	TOTAL	8496.14	MEAN	23.3	MAX	527	MIN	.90	AC-FT	16850		

SAN LORENZO RIVER BASIN

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 460 ft, from topographic map.

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

AVERAGE DISCHARGE.--6 years, 27.7 ft³/s, 20,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,480 ft³/s Jan. 4, 1982, gage height, 13.30 ft, from rating curve extended above 600 ft³/s on basis of slope-area measurement of maximum flow; minimum daily, 0.12 ft³/s Sept. 23, 24, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 21	1700	877	5.60	Feb. 25	1530	838	5.47
Jan. 24	0145	*2,770	10.25	Mar. 2	0930	1,870	8.31
Jan. 26	2030	1,170	6.50	Mar. 13	Unknown	Unknown	Unknown
Feb. 8	0145	762	5.21	Apr. 28	0600	765	5.22
Feb. 12	0415	395	3.74				

Minimum daily, 1.3 ft³/s Oct. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	5.8	38	16	87	799	83	170	21	8.9	4.9	2.8
2	1.4	5.6	17	15	79	1000	75	124	21	8.9	4.6	2.9
3	1.3	5.2	13	14	66	500	70	100	19	8.9	4.3	2.7
4	1.3	4.9	10	14	57	270	64	85	18	8.6	4.1	2.7
5	1.4	4.7	9.2	13	74	215	60	89	18	7.9	4.1	2.5
6	1.6	4.6	8.6	13	147	195	56	77	17	7.9	3.9	2.5
7	1.6	4.6	8.0	12	310	185	52	67	17	7.9	4.0	2.5
8	1.5	4.4	9.5	12	424	165	50	61	16	7.7	3.7	2.5
9	1.5	4.9	10	11	181	148	48	57	16	7.5	3.7	2.4
10	1.9	6.2	10	11	134	140	46	53	15	6.9	3.7	2.3
11	1.5	6.6	9.6	11	108	135	43	49	15	6.6	3.9	2.2
12	1.6	6.0	9.3	10	294	130	42	46	15	6.6	3.7	2.0
13	1.5	5.7	9.3	10	182	390	40	44	14	6.4	3.7	2.0
14	1.5	5.7	9.3	10	138	220	37	41	14	6.3	3.5	2.0
15	1.5	5.7	9.3	10	115	175	36	39	13	6.3	3.5	2.0
16	1.5	5.6	9.6	10	98	160	35	37	13	6.2	3.4	1.9
17	1.5	5.4	20	10	83	155	33	35	12	6.0	3.3	1.8
18	1.5	81	14	68	106	138	36	34	12	6.0	3.4	1.7
19	1.6	18	12	37	81	118	39	32	12	5.8	4.1	1.7
20	1.7	8.4	14	21	71	129	36	31	12	5.9	4.3	1.7
21	1.7	6.7	362	18	64	133	33	29	11	5.7	4.1	1.7
22	1.7	6.2	365	355	59	164	32	27	11	5.4	3.7	1.9
23	1.8	6.6	154	273	62	161	70	26	10	5.4	3.5	2.1
24	1.8	5.7	65	704	65	213	54	26	10	5.4	3.5	2.6
25	6.6	5.3	42	140	276	179	50	25	10	5.4	3.3	1.6
26	8.5	5.1	32	287	197	145	42	24	10	5.4	3.3	1.6
27	2.7	6.2	26	478	281	181	67	23	9.7	5.4	3.4	1.6
28	2.1	27	23	202	697	141	416	22	9.7	5.5	3.0	1.7
29	2.1	38	21	226	---	121	170	22	9.7	5.1	2.8	1.7
30	6.8	112	19	146	---	105	234	21	9.2	4.9	2.7	4.8
31	8.1	---	17	109	---	93	---	21	---	4.8	2.7	---
TOTAL	74.2	417.8	1375.7	3266	4536	7003	2149	1537	410.3	201.6	113.8	66.1
MEAN	2.39	13.9	44.4	105	162	226	71.6	49.6	13.7	6.50	3.67	2.20
MAX	8.5	112	365	704	697	1000	416	170	21	8.9	4.9	4.8
MIN	1.3	4.4	8.0	10	57	93	32	21	9.2	4.8	2.7	1.6
AC-FT	147	829	2730	6480	9000	13890	4260	3050	814	400	226	131

CAL YR 1982	TOTAL	17264.9	MEAN	47.3	MAX	1840	MIN	.95	AC-FT	34250
WTR YR 1983	TOTAL	21150.5	MEAN	57.9	MAX	1000	MIN	1.3	AC-FT	41950

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, 750 ft upstream from mouth.

DRAINAGE AREA.--11.3 mi²

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

GAGE.--Water-stage recorder. Altitude of gage is 470 ft, from topographic map.

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

AVERAGE DISCHARGE.--7 years, 24.0 ft³/s, 17,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft³/s Jan. 4, 1982, gage-height, 9.50 ft, from rating curve extended above 330 ft³/s on basis of slope-area measurement of maximum flow; minimum daily, 0.35 ft³/s Oct. 16, 17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	1030	636	4.22	Feb. 12	0600	434	3.55
Nov. 28	2000	306	3.10	Feb. 25	1545	880	5.02
Dec. 21	1515	805	4.77	Mar. 2	1000	1,150	6.00
Jan. 24	0300	*1,290	6.53	Mar. 13	0615	883	5.03
Jan. 28	2230	524	3.85	Apr. 28	0515	379	3.36
Feb. 8	0100	669	4.33				

Minimum daily, 1.4 ft³/s several days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	3.2	50	17	75	470	67	115	15	6.9	4.0	2.6
2	1.5	3.0	24	16	71	740	62	79	15	6.8	3.7	2.5
3	1.5	2.8	13	15	61	444	57	65	14	6.6	3.6	2.2
4	1.4	2.8	9.3	15	52	260	53	57	13	6.5	3.6	2.2
5	1.4	2.7	7.8	13	76	205	49	66	13	6.2	3.5	2.2
6	1.4	2.6	6.7	12	179	182	46	57	12	6.2	3.2	2.1
7	1.4	2.6	5.5	12	415	175	43	49	12	5.9	3.2	2.1
8	1.4	3.0	5.0	11	370	138	42	44	12	5.9	2.9	2.1
9	1.4	3.6	4.7	11	163	115	40	42	11	5.9	3.1	2.1
10	1.4	4.1	4.0	10	114	110	38	39	11	5.9	2.8	2.0
11	1.4	3.2	3.8	9.8	94	97	36	36	11	5.6	2.8	2.1
12	1.4	3.2	3.6	9.3	321	118	35	33	11	5.4	2.8	1.9
13	1.4	3.1	3.7	8.9	175	441	32	33	10	5.3	2.8	1.8
14	1.4	3.0	3.2	8.8	120	183	30	31	10	5.3	2.5	1.8
15	1.4	3.0	3.2	8.5	99	132	29	29	9.4	5.3	2.5	1.8
16	1.4	3.0	3.7	8.6	88	165	29	28	9.4	5.1	2.5	1.8
17	1.4	3.0	22	8.5	76	166	29	26	9.3	5.0	2.5	1.8
18	1.4	177	6.6	70	115	133	32	25	8.8	5.0	2.5	1.6
19	1.4	27	5.1	42	85	106	31	24	8.5	5.0	2.5	1.6
20	1.4	10	7.2	21	72	129	31	23	8.6	5.0	2.3	1.6
21	1.5	6.5	415	17	65	139	29	22	8.2	5.0	2.3	1.6
22	1.5	6.0	295	285	59	167	27	20	8.1	4.8	2.2	1.7
23	1.7	6.3	160	173	62	157	76	20	7.7	4.7	2.2	1.8
24	1.8	4.9	75	393	64	209	62	19	7.6	4.5	2.2	1.8
25	16	4.3	51	155	293	169	52	19	7.3	4.5	2.2	1.7
26	13	4.1	40	244	200	121	39	18	7.2	4.5	2.1	1.7
27	5.1	7.0	33	305	202	177	56	17	6.9	4.5	2.1	1.7
28	3.0	57	27	183	392	125	209	17	6.9	4.0	2.5	1.7
29	3.1	64	23	232	---	100	108	16	6.9	4.0	2.5	1.7
30	11	115	21	128	---	98	181	16	6.9	4.0	2.5	3.0
31	4.3	---	18	91	---	85	---	15	---	4.0	2.7	---
TOTAL	90.3	541.0	1350.1	2533.4	4158	6056	1650	1100	297.7	163.3	84.8	58.3
MEAN	2.91	18.0	43.6	81.7	148	195	55.0	35.5	9.92	5.27	2.74	1.94
MAX	16	177	415	393	415	740	209	115	15	6.9	4.0	3.0
MIN	1.4	2.6	3.2	8.5	52	85	27	15	6.9	4.0	2.1	1.6
AC-FT	179	1070	2680	5020	8250	12010	3270	2180	590	324	168	116

CAL YR 1982	TOTAL	14359.8	MEAN	39.3	MAX	913	MIN	1.4	AC-FT	28480
WTR YR 1983	TOTAL	18082.9	MEAN	49.5	MAX	740	MIN	1.4	AC-FT	35870

SAN LORENZO RIVER BASIN

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 390 ft, from topographic map. Prior to Jan. 14, 1978, at datum 0.12 ft higher.

REMARKS.--Records fair. No known regulation; only small diversion above station for individual use.

AVERAGE DISCHARGE.--26 years, 12.6 ft³/s, 9,130 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft³/s Jan. 14, 1978, gage height, 8.52 ft, from rating curve extended above 1,200 ft³/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 above base of 450 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 21	1700	1,260	5.21	Mar. 2	Unknown	1,620	5.76
Jan. 24	0330	*2,330	6.82	Apr. 29	1845	791	4.43
Jan. 26	2000	1,120	5.00	May 2	0100	1,390	5.41
Feb. 8	0200	641	4.15				

Minimum daily, 0.96 ft³/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.5	17	6.9	43	510	46	147	12	6.2	3.2	1.8
2	1.1	1.3	8.3	6.4	39	920	41	376	12	6.2	3.1	1.7
3	1.1	1.2	6.1	6.1	32	450	37	110	12	6.0	3.1	1.8
4	1.1	1.2	5.1	5.7	28	240	34	74	11	5.7	3.3	1.7
5	5.7	1.2	4.4	5.5	33	190	32	59	11	5.7	3.2	1.6
6	1.1	1.1	4.1	5.2	83	170	30	49	11	5.7	3.1	1.5
7	1.0	1.2	3.7	4.9	193	180	28	57	10	5.4	3.1	1.6
8	.98	1.4	3.5	4.9	286	150	27	60	9.9	5.4	3.0	1.6
9	.99	1.5	3.5	4.7	101	140	26	45	9.7	5.1	2.9	1.5
10	.96	1.7	3.2	4.5	66	130	25	39	9.4	5.2	2.8	1.6
11	.97	1.3	3.1	4.4	50	125	24	37	9.2	5.0	2.7	1.5
12	.97	1.3	3.0	4.4	252	120	23	34	8.9	4.9	2.6	1.4
13	.97	1.2	2.9	4.2	116	360	21	32	8.7	4.8	2.5	1.3
14	.97	1.2	2.8	4.2	75	210	21	30	8.7	4.7	2.5	1.5
15	.98	1.2	2.8	4.2	59	130	20	28	8.4	4.5	2.5	1.4
16	.98	1.2	2.8	4.2	52	140	19	27	8.2	4.6	2.5	1.2
17	.98	1.2	7.8	4.0	46	150	18	25	8.0	4.3	2.3	1.3
18	1.0	47	4.1	37	100	100	17	24	7.9	4.1	2.3	1.3
19	1.0	7.8	3.5	22	87	64	18	23	7.9	4.3	2.3	1.3
20	1.0	3.3	3.8	10	73	79	18	22	7.6	4.0	2.1	1.3
21	1.1	2.5	357	8.6	68	77	21	21	7.7	3.9	2.2	1.2
22	1.1	2.4	238	404	64	114	18	20	7.6	3.9	2.1	1.3
23	1.1	2.3	80	132	62	111	16	17	7.5	4.1	1.9	1.4
24	1.1	2.0	32	659	66	151	16	15	7.3	4.0	2.0	1.2
25	5.0	1.8	20	100	320	110	49	14	7.2	3.8	2.0	1.3
26	5.7	1.7	15	220	170	82	32	14	7.2	3.6	2.1	1.2
27	1.6	2.4	12	288	200	174	25	13	7.1	3.7	2.1	1.3
28	1.3	21	10	139	720	101	22	13	7.1	3.6	1.7	1.3
29	1.3	22	9.1	172	---	76	222	13	6.7	3.3	1.7	1.4
30	4.4	58	8.2	83	---	62	178	12	6.3	3.3	1.7	5.7
31	1.8	---	7.5	56	---	53	---	12	---	3.4	1.8	---
TOTAL	50.45	196.1	884.3	2415.0	3484	5669	1124	1462	263.2	142.4	76.4	47.2
MEAN	1.63	6.54	28.5	77.9	124	183	37.5	47.2	8.77	4.59	2.46	1.57
MAX	5.7	58	357	659	720	920	222	376	12	6.2	3.3	5.7
MIN	.96	1.1	2.8	4.0	28	53	16	12	6.3	3.3	1.7	1.2
AC-FT	100	389	1750	4790	6910	11240	2230	2900	522	282	152	94

CAL YR 1982 TOTAL 9817.3 MEAN 26.9 MAX 1690 MIN .96 AC-FT 19470
WTR YR 1983 TOTAL 15814.05 MEAN 43.3 MAX 920 MIN .96 AC-FT 31370

NOTE.--No gage-height record Oct. 1-6, Feb. 16 to Mar. 18.

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 mi².

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. Datum of gage is 227.00 ft Santa Cruz County datum. Prior to Oct. 6, 1972, at site 1.3 mi downstream at different datum.

REMARKS.--Records good. Flow regulated by Loch Lomond Reservoir since 1961, capacity, 8,400 acre-ft. Many small diversions above station for domestic supply.

AVERAGE DISCHARGE.--47 years, 141 ft³/s, 102,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,400 ft³/s Dec. 23, 1955, gage height, 22.55 ft site and datum then in use, from rating curve extended above 11,000 ft³/s on basis of slope-area measurement of maximum flow; maximum gage height, 28.85 ft Jan. 5, 1982; minimum, 0.8 ft³/s, regulated, June 25, 1939; minimum daily, 5.6 ft³/s July 27, 28, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	1115	2,080	9.75	Feb. 25	1600	8,840	17.30
Dec. 21	1730	7,910	16.51	Mar. 2	1045	11,900	19.65
Jan. 24	0200	*13,400	20.69	Mar. 13	0815	5,930	14.77
Jan. 29	0045	2,310	10.18	Mar. 27	0930	2,150	9.88
Feb. 8	0245	4,760	13.57	Apr. 28	0745	2,860	11.07
Feb. 12	0530	2,880	11.10				

Minimum daily, 20 ft³/s Nov. 4, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	25	395	120	751	4120	576	936	162	84	53	37
2	21	23	210	111	716	6910	529	663	161	84	52	36
3	21	22	152	103	635	3270	496	558	157	82	51	35
4	22	20	121	98	568	1730	468	494	145	81	50	34
5	22	22	102	92	645	1440	440	535	143	80	48	34
6	22	23	90	87	1140	1310	413	480	140	79	45	37
7	23	23	79	82	2040	1330	391	428	135	77	44	35
8	23	27	71	80	2620	1140	374	397	133	75	43	35
9	23	29	68	75	1190	1040	359	372	128	74	44	34
10	23	34	64	69	922	972	345	352	125	72	46	33
11	23	27	61	66	779	947	333	332	120	69	46	31
12	22	24	59	63	2070	915	321	318	117	67	45	30
13	22	23	59	61	1230	2750	308	306	112	65	44	30
14	21	20	56	59	932	1240	294	294	109	63	44	30
15	21	22	54	59	802	989	287	278	104	63	43	29
16	22	26	56	61	705	1100	279	264	102	63	42	29
17	22	24	162	59	614	1110	268	250	99	62	40	30
18	22	812	86	463	773	969	282	241	98	62	46	37
19	21	222	73	381	626	839	283	232	96	61	47	31
20	22	126	74	213	555	887	279	220	96	60	48	27
21	22	102	2460	168	514	936	256	212	95	59	46	30
22	22	102	1920	2860	484	1210	245	206	94	58	43	31
23	23	83	1030	1360	497	1060	442	201	92	57	42	31
24	24	90	535	4130	501	1350	422	197	91	57	41	31
25	72	88	371	944	2440	1110	378	189	91	57	41	32
26	101	79	285	1610	1280	873	318	184	90	56	40	30
27	35	97	235	2230	1400	1340	452	178	81	56	39	30
28	22	340	201	1200	3230	954	1700	174	87	56	38	31
29	24	440	177	1550	---	790	914	171	87	54	37	31
30	80	787	160	1030	---	704	1280	163	85	54	37	80
31	35	---	132	866	---	645	---	162	---	54	38	---
TOTAL	900	3782	9598	20350	30659	45980	13732	9987	3375	2041	1363	1011
MEAN	29.0	126	310	656	1095	1483	458	322	112	65.8	44.0	33.7
MAX	101	812	2460	4130	3230	6910	1700	936	162	84	53	80
MIN	21	20	54	59	484	645	245	162	81	54	37	27
AC-FT	1790	7500	19040	40360	60810	91200	27240	19810	6690	4050	2700	2010
CAL YR 1982	TOTAL	119792	MEAN	328	MAX	14700	MIN	20	AC-FT	237600		
WTR YR 1983	TOTAL	142778	MEAN	391	MAX	6910	MIN	20	AC-FT	283200		

SAN VICENTE CREEK BASIN

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 mi².

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

GAGE.--Water-stage recorder and concrete dam. Altitude of gage is 740 ft, from topographic map.

REMARKS.--Records fair except for those periods of no gage-height record, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--14 years, 9.84 ft³/s, 7,130 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft³/s Jan. 4, 1982, gage height, 8.90 ft; no flow Sept. 9-18, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 21	1715	160	4.24	Mar. 2	0830	*529	5.59
Jan. 24	0130	143	4.14	Mar. 13	0645	323	4.94
Jan. 26	2015	174	4.31	Mar. 22	0915	153	4.20
Feb. 8	0245	186	4.37	Mar. 27	0900	138	4.11
Feb. 12	0930	139	4.12	Apr. 28	0415	155	4.21
Feb. 25	1515	257	4.69				

Minimum daily, 1.5 ft³/s Oct. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	3.7	12	10	33	167	55	50	16	9.8	5.8	4.1
2	2.0	3.5	9.6	9.5	32	295	52	42	16	9.8	5.8	3.9
3	2.0	3.3	7.7	9.0	30	202	49	37	16	9.7	5.8	3.9
4	2.0	3.0	6.5	8.9	27	139	47	35	15	9.3	5.4	3.9
5	1.8	3.0	5.8	8.8	30	122	44	37	15	8.9	5.4	3.6
6	1.8	2.9	5.6	8.5	65	106	42	36	15	8.9	5.4	3.6
7	1.8	2.9	5.2	8.4	134	106	41	33	14	8.9	5.1	3.6
8	1.9	2.9	5.0	7.3	129	87	39	31	14	8.5	4.8	3.6
9	1.8	3.0	4.7	7.3	75	78	38	29	14	8.5	4.7	3.6
10	1.8	3.5	5.1	7.2	60	74	35	28	14	8.5	4.7	3.4
11	1.8	4.0	5.0	6.9	53	70	35	27	14	8.4	4.7	3.4
12	1.8	3.8	4.8	6.8	100	71	34	26	14	8.1	4.7	3.3
13	1.7	3.7	4.8	6.5	76	172	32	25	14	8.0	4.7	3.1
14	1.7	3.6	4.8	6.5	61	97	31	24	13	7.7	4.7	3.1
15	1.7	3.5	4.4	6.2	55	80	30	24	13	7.7	4.7	3.1
16	1.7	3.5	4.5	6.2	52	82	29	23	13	7.7	4.8	3.1
17	1.7	4.0	12	6.2	47	80	28	23	12	7.7	4.8	3.1
18	1.7	34	8.2	17	55	73	28	22	12	7.7	4.6	3.1
19	1.7	13	7.2	17	48	67	27	21	12	7.7	4.4	2.9
20	1.7	6.6	6.9	13	44	69	27	20	12	7.3	4.4	2.9
21	1.7	5.4	58	11	40	70	26	20	12	7.3	4.5	2.9
22	1.5	4.9	58	59	38	92	25	19	12	7.3	4.4	2.9
23	1.7	4.6	38	38	38	79	30	19	11	7.3	4.4	2.8
24	1.8	4.2	24	79	38	80	29	19	11	7.2	4.4	2.9
25	5.3	4.1	19	40	92	73	28	18	11	6.8	4.4	2.9
26	8.4	3.9	17	50	83	67	26	18	11	6.5	4.4	2.9
27	3.9	4.1	15	68	77	93	31	17	10	6.5	4.2	2.9
28	3.0	11	14	51	129	74	77	17	10	6.5	4.2	2.9
29	2.7	22	12	65	---	66	51	17	10	6.2	4.2	2.9
30	9.6	39	11	45	---	63	52	16	10	6.2	4.2	4.1
31	4.8	---	11	38	---	60	---	16	---	5.8	4.2	---
TOTAL	80.5	214.6	406.8	721.2	1741	3054	1118	789	386	242.4	146.9	98.4
MEAN	2.60	7.15	13.1	23.3	62.2	98.5	37.3	25.5	12.9	7.82	4.74	3.28
MAX	9.6	39	58	79	134	295	77	50	16	9.8	5.8	4.1
MIN	1.5	2.9	4.4	6.2	27	60	25	16	10	5.8	4.2	2.8
AC-FT	160	426	807	1430	3450	6060	2220	1560	766	481	291	195

CAL YR 1982 TOTAL 8153.9 MEAN 22.3 MAX 854 MIN 1.5 AC-FT 16170
WTR YR 1983 TOTAL 8998.8 MEAN 24.7 MAX 295 MIN 1.5 AC-FT 17850

NOTE.--No gage-height record Oct. 27 to Dec. 9.

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 mi².

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

REVISED RECORDS.--WSP 1445: 1952-53(M). WSP 1715: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 62.3 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. 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.--32 years, 45.1 ft³/s, 32,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,420 ft³/s Dec. 23, 1955, gage height, 21.27 ft, from rating curve extended above 2,700 ft³/s on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	1545	718	6.83	Jan. 26	2200	*7,550	18.80
Nov. 30	0615	916	7.46	Mar. 2	Unknown	4,650	14.50
Dec. 21	1845	2,840	11.57	Mar. 13	0915	2,430	10.44

Peak also occurred on Feb. 8, 18.

Minimum daily, 4.3 ft³/s Oct. 4, 5, 6, 7, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	6.8	358	170	290	1400	198	365	37	25	10	8.5
2	4.7	5.8	172	155	235	2400	178	247	36	25	10	8.0
3	4.6	5.2	121	140	200	1150	159	194	35	22	9.7	7.5
4	4.3	4.9	99	125	190	760	145	163	34	21	9.5	7.1
5	4.3	4.7	86	118	350	600	132	164	32	19	9.3	6.8
6	4.3	4.6	77	110	700	478	121	155	31	18	9.2	6.8
7	4.3	4.5	69	100	1300	458	112	129	30	18	8.9	6.8
8	4.5	4.9	63	95	2250	380	105	116	29	17	8.7	6.7
9	4.5	5.6	61	89	500	325	99	102	28	17	8.4	6.6
10	4.5	7.1	62	84	270	296	93	95	28	16	8.1	6.5
11	4.3	6.5	59	79	600	274	89	89	27	15	7.7	6.5
12	4.5	5.7	54	75	480	262	84	84	27	15	7.8	6.4
13	4.5	5.4	52	73	380	1160	80	79	26	14	8.4	6.4
14	4.5	5.3	45	71	270	546	75	74	25	14	8.0	6.4
15	4.5	5.2	51	70	215	384	72	70	25	13	7.6	6.4
16	4.5	5.4	50	70	180	386	69	67	25	13	7.7	6.5
17	4.7	5.5	67	69	300	391	66	64	24	13	8.6	6.5
18	4.9	266	62	68	520	366	67	61	24	13	11	6.5
19	5.0	149	54	155	250	307	65	57	24	13	15	6.5
20	5.0	60	55	95	175	340	71	54	25	13	10	6.6
21	4.9	41	1040	74	155	440	66	52	25	12	9.0	6.6
22	5.0	34	1900	808	160	429	61	50	26	12	8.6	7.9
23	5.3	32	1450	448	200	408	156	48	28	12	8.3	7.5
24	5.7	28	1050	1660	350	490	148	46	28	12	7.9	7.6
25	27	39	740	332	700	428	129	44	28	12	7.7	8.1
26	45	40	540	867	560	347	103	43	29	12	7.5	8.2
27	12	41	400	1330	640	415	100	41	28	11	7.3	8.2
28	7.1	41	330	602	900	350	355	40	28	11	7.1	9.1
29	5.9	88	270	695	---	293	280	39	26	11	7.0	8.5
30	9.1	584	215	480	---	253	420	38	26	10	6.9	26
31	11	---	195	349	---	228	---	38	---	10	9.0	---
TOTAL	229.0	1536.1	9847	9656	13320	16744	3898	2908	844	459	269.9	233.7
MEAN	7.39	51.2	318	311	476	540	130	93.8	28.1	14.8	8.71	7.79
MAX	45	584	1900	1660	2250	2400	420	365	37	25	15	26
MIN	4.3	4.5	45	68	155	228	61	38	24	10	6.9	6.4
AC-FT	454	3050	19530	19150	26420	33210	7730	5770	1670	910	535	464

CAL YR 1982 TOTAL 45130.3 MEAN 124 MAX 3500 MIN 3.9 AC-FT 89520
WTR YR 1983 TOTAL 59944.7 MEAN 164 MAX 2400 MIN 4.3 AC-FT 118900

NOTE.--No gage-height record Dec. 22 to Jan. 21, Feb. 1 to Mar. 5, May 9-20, July 17 to Sept. 30.

SAN GREGORIO CREEK BASIN

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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 11.40 ft National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--14 years, 44.0 ft³/s, 31,880 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,910 ft³/s Jan. 4, 1982, gage height, 21.28 ft; no flow many days in 1972 and 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 22	1515	2,050	9.84	Jan. 26	2130	4,390	12.57
Jan. 24	Unknown	4,790	13.70	Mar. 2	Unknown	*5,440	14.40

Peak may have occurred on Feb. 8, 13, and Mar. 13.

Minimum daily, 2.4 ft³/s Oct. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	9.8	181	28	189	750	130	190	37	13	6.9	4.4
2	3.5	8.5	82	26	162	1400	118	140	35	13	6.6	4.5
3	3.3	7.5	53	24	120	830	106	120	33	13	6.4	7.0
4	2.9	6.9	39	22	97	590	96	100	31	12	6.2	5.7
5	3.6	6.9	32	21	110	476	89	140	29	12	6.0	4.5
6	3.5	7.1	27	19	400	370	82	122	27	12	5.7	4.0
7	4.0	6.8	24	18	1250	380	76	100	24	12	5.5	3.8
8	3.8	6.9	21	17	900	280	72	90	25	12	5.4	3.7
9	3.1	7.9	19	16	400	247	68	84	25	11	5.2	3.6
10	2.6	11	18	15	250	288	64	77	24	11	5.0	3.5
11	2.5	9.1	17	15	200	264	60	71	23	11	4.8	3.4
12	2.4	8.3	16	15	400	400	58	67	21	11	4.6	3.4
13	2.4	7.7	17	14	330	1250	56	62	19	11	5.0	3.4
14	2.6	7.4	16	14	240	475	54	59	17	11	4.7	3.5
15	2.7	7.4	15	15	200	310	52	56	16	10	4.4	3.6
16	3.0	7.4	15	15	170	350	50	53	17	10	4.5	3.6
17	3.3	7.7	20	14	150	450	49	51	16	10	5.0	3.8
18	3.2	280	17	97	350	380	60	50	16	9.9	6.0	3.9
19	3.2	140	16	90	250	280	64	49	16	9.7	8.3	3.9
20	3.0	54	16	45	190	360	63	44	16	9.6	5.5	4.0
21	4.0	28	604	27	160	400	56	41	16	9.4	5.2	4.1
22	4.7	21	929	980	145	420	48	40	16	9.2	4.8	4.3
23	4.6	18	343	520	155	340	140	38	15	9.0	4.7	4.1
24	4.6	16	140	1200	200	470	130	36	15	8.8	4.4	3.9
25	18	14	94	370	450	320	135	33	15	8.6	4.5	4.1
26	33	13	72	1150	340	250	90	34	14	8.3	4.0	4.3
27	12	12	58	1100	400	300	92	35	14	8.0	4.1	4.1
28	9.1	66	47	555	510	250	290	35	14	7.8	4.3	4.0
29	7.9	135	40	629	---	200	165	35	14	7.6	3.9	3.7
30	16	327	35	381	---	170	320	35	13	7.4	3.7	16
31	14	---	31	250	---	150	---	37	---	7.2	4.4	---
TOTAL	190.1	1258.3	3054	7702	8718	13400	2933	2124	613	315.5	159.7	133.8
MEAN	6.13	41.9	98.5	248	311	432	97.8	68.5	20.4	10.2	5.15	4.46
MAX	33	327	929	1200	1250	1400	320	190	37	13	8.3	16
MIN	2.4	6.8	15	14	97	150	48	33	13	7.2	3.7	3.4
AC-FT	377	2500	6060	15280	17290	26580	5820	4210	1220	626	317	265
CAL YR 1982	TOTAL	35038.4	MEAN	96.0	MAX	4120	MIN	2.4	AC-FT	69500		
WTR YR 1983	TOTAL	40601.4	MEAN	111	MAX	1400	MIN	2.4	AC-FT	80530		

11162630 PILARCITOS CREEK AT HALF MOON BAY, CA

LOCATION.--Lat 37°28'07", long 122°26'08", on north boundary of Miramontes Grant, San Mateo County, Hydrologic Unit 18050006, on left bank 0.2 mi downstream from State Highway 1, 0.5 mi northwest of town of Half Moon Bay, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--27.2 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 23.59 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow partly 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).--17 years, 17.3 ft³/s, 12,530 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft³/s Jan. 4, 1982, gage height, 13.08 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 24	Unknown	*2,500 e	10.20

Peak may have occurred on Nov. 18, 29, Dec. 22, Jan. 26, Feb. 7, 13, Mar. 2, 13, Apr. 28.

Minimum daily, 0.73 ft³/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.73	4.3	100	18	84	870	72	105	12	5.7	1.9	1.3
2	.78	3.3	40	16	73	1100	64	82	11	5.6	1.9	1.3
3	.86	3.0	23	14	63	440	57	66	11	5.3	1.8	1.9
4	.93	3.0	15	13	59	290	50	56	10	5.2	1.8	1.5
5	1.1	3.0	11	12	150	215	46	120	10	5.0	1.7	1.3
6	1.2	2.9	9.2	11	600	190	43	94	11	4.7	1.8	1.2
7	1.3	3.0	8.3	10	1000	205	41	73	11	4.4	1.7	1.1
8	1.3	4.0	7.2	11	500	140	39	54	11	4.2	1.9	1.1
9	1.5	9.4	6.5	10	270	115	37	48	10	3.9	1.7	1.1
10	1.7	5.8	6.0	9.3	150	117	36	44	9.7	3.7	1.5	1.0
11	2.0	4.2	5.7	8.2	200	110	34	40	9.4	3.4	1.4	1.0
12	1.8	3.5	5.4	7.7	310	400	32	37	9.0	2.8	1.4	.97
13	1.7	3.2	5.5	7.4	240	900	31	32	8.5	2.6	1.6	.95
14	1.6	3.2	5.4	7.2	150	230	29	27	8.1	2.5	1.5	.99
15	1.9	3.2	5.4	7.3	120	180	28	24	7.8	2.5	1.4	1.0
16	2.4	3.2	5.8	7.6	100	260	27	22	7.6	2.4	1.4	1.0
17	2.5	20	11	7.1	88	300	28	21	7.3	2.4	1.5	1.1
18	2.4	250	8.4	85	270	230	32	20	7.4	2.3	1.9	1.1
19	2.5	70	6.6	80	170	165	33	19	7.6	2.4	2.4	1.1
20	2.4	25	10	40	93	235	34	17	7.0	2.4	1.6	1.1
21	2.6	13	550	23	80	240	27	16	6.4	2.4	1.5	1.0
22	2.5	9.0	900	690	81	245	55	16	6.1	2.3	1.4	1.2
23	2.5	6.8	300	390	88	200	100	16	6.0	2.3	1.4	1.1
24	9.0	5.5	130	850	150	320	90	15	6.0	2.2	1.3	1.1
25	26	4.8	80	200	350	200	92	14	6.0	2.3	1.3	1.2
26	28	4.6	53	680	280	145	48	13	5.9	2.2	1.2	1.2
27	5.0	4.4	40	640	340	175	51	14	5.8	2.1	1.2	1.2
28	3.5	50	32	320	480	125	210	12	6.0	2.0	1.3	1.4
29	5.0	150	27	420	---	100	110	12	6.0	2.0	1.2	1.3
30	15	300	23	170	---	88	230	12	5.8	2.0	1.1	4.0
31	6.0	---	20	115	---	80	---	12	---	1.9	1.3	---
TOTAL	137.70	975.3	2450.4	4879.8	6539	8610	1806	1153	246.4	97.1	48.0	37.81
MEAN	4.44	32.5	79.0	157	234	278	60.2	37.2	8.21	3.13	1.55	1.26
MAX	28	300	900	850	1000	1100	230	120	12	5.7	2.4	4.0
MIN	.73	2.9	5.4	7.1	59	80	27	12	5.8	1.9	1.1	.95
AC-FT	273	1930	4860	9680	12970	17080	3580	2290	489	193	95	75

CAL YR 1982 TOTAL 17597.5 MEAN 48.2 MAX 2150 MIN .70 AC-FT 34900
WTR YR 1983 TOTAL 26980.51 MEAN 73.9 MAX 1100 MIN .73 AC-FT 53520

NOTE.--Stage-discharge indefinite Oct. 1 to Sept. 30.

e Estimate on basis of records nearby stations.

COLMA CREEK BASIN

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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 12.53 ft 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.--Records good. Low flow affected by return flow from urban irrigation.

AVERAGE DISCHARGE.--20 years, 7.72 ft³/s, 5,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,880 ft³/s Jan. 16, 1973, gage height, 11.80 ft; no flow Oct. 5, 26, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 25	1930	1,380	8.42	Feb. 12	2120	1,460	8.64
Nov. 29	2345	1,380	8.41	Feb. 25	1255	1,420	8.53
Jan. 18	1600	1,370	8.38	Mar. 13	0210	1,060	7.53
Jan. 23	2225	*1,630	9.18	Mar. 16	2330	1,160	7.78
Jan. 27	0255	1,480	8.73	Apr. 23	1035	1,380	8.42
Feb. 5	1045	990	7.34				

Minimum daily, 0.25 ft³/s Oct. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	.93	11	1.1	9.9	121	7.0	3.5	3.8	2.0	1.9	1.1
2	.46	.93	5.6	1.1	41	223	19	2.3	3.5	2.2	1.8	.93
3	.25	.93	2.5	1.1	9.2	54	6.2	1.8	4.0	1.1	2.7	.93
4	.25	.74	1.4	1.0	8.0	76	4.2	8.2	4.3	1.5	2.3	.93
5	.59	.74	1.4	1.0	85	52	4.2	31	3.0	2.7	2.8	.93
6	12	.74	1.4	1.0	115	31	4.9	2.9	2.8	2.7	2.4	.92
7	.59	3.6	1.4	1.0	197	19	5.6	2.5	2.7	2.2	1.0	.74
8	.59	5.4	1.4	.95	55	10	5.6	2.3	2.3	1.6	1.2	.74
9	.59	31	1.4	.91	21	9.2	5.6	2.3	1.9	3.0	1.1	.74
10	.59	12	1.4	.87	13	27	5.6	2.7	1.7	2.6	1.7	.74
11	.59	1.2	1.2	.84	26	6.2	5.6	3.0	1.4	2.5	2.8	.86
12	.59	1.2	6.2	.82	138	114	6.2	2.5	2.8	1.4	3.1	.74
13	.59	1.4	2.1	.92	26	50	6.2	2.1	2.6	2.3	1.5	.74
14	.74	1.4	1.4	1.0	11	22	6.2	2.3	2.2	2.7	2.1	.74
15	12	1.7	1.4	2.5	13	12	6.2	2.3	2.8	2.9	3.3	.74
16	24	1.7	5.7	7.0	9.5	116	6.9	2.0	2.7	2.3	3.4	.78
17	.74	16	5.4	1.3	8.0	181	6.9	1.9	2.6	2.3	2.3	.74
18	.93	224	1.2	158	52	54	31	1.7	2.0	2.5	3.5	.74
19	16	5.3	.93	1.2	9.5	19	28	2.3	4.4	1.6	5.9	1.0
20	.74	3.0	24	.74	9.5	71	2.5	2.7	2.9	2.7	1.9	.91
21	.74	3.0	139	2.1	9.2	13	1.4	2.2	2.4	2.4	1.7	.83
22	.74	91	148	156	8.0	81	2.1	2.6	2.6	1.6	.99	.97
23	.74	9.2	16	188	73	43	123	2.7	2.6	1.5	.93	2.1
24	38	3.0	3.5	39	9.9	39	53	2.6	2.6	1.6	.93	.89
25	201	3.0	2.5	13	150	12	6.2	2.7	2.4	1.9	.93	.74
26	3.0	3.0	1.7	166	49	21	4.2	2.8	3.0	1.3	.93	1.6
27	1.2	23	.93	215	49	48	4.2	3.0	2.5	1.4	.93	2.0
28	1.2	90	.93	94	136	9.9	15	3.0	1.6	1.1	.93	3.4
29	34	136	.93	60	---	9.5	6.2	4.0	2.0	1.9	.93	3.6
30	21	140	1.1	13	---	36	38	4.0	1.8	1.9	.93	30
31	1.2	---	1.1	11	---	12	---	4.1	---	2.5	3.0	---
TOTAL	376.24	815.11	394.12	1141.45	1340.7	1591.8	426.9	116.0	79.9	63.9	61.83	62.82
MEAN	12.1	27.2	12.7	36.8	47.9	51.3	14.2	3.74	2.66	2.06	1.99	2.09
MAX	201	224	148	215	197	223	123	31	4.4	3.0	5.9	30
MIN	.25	.74	.93	.74	8.0	6.2	1.4	1.7	1.4	1.1	.93	.74
AC-FT	746	1620	782	2260	2660	3160	847	230	158	127	123	125
a	1.01	3.39	1.49	3.52	4.00	5.47	2.10	0.34	0.04	0.09	0.10	0.45
b	2.66	6.21	3.00	6.85	7.23	6.23	2.87	0.76	0.01	0.11	0.30	0.69

CAL YR 1982 TOTAL 5260.54 MEAN 14.4 MAX 820 MIN .25 AC-FT 10430 a 22.00
WTR YR 1983 TOTAL 6470.77 MEAN 17.7 MAX 224 MIN .25 AC-FT 12830 a 21.18

a Precipitation in inches, at San Bruno Mt. gage.

b Precipitation in inches, at 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 mi².

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Low flow at times affected by return flow from urban irrigation.

AVERAGE DISCHARGE.--24 years, 1.22 ft³/s, 885 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 644 ft³/s Jan. 31, 1963, gage height, 9.36 ft, from rating curve extended above 180 ft³/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 above base of 130 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	0900	135	4.29	Feb. 7	2015	170	4.76
Dec. 22	1300	268	5.88	Feb. 25	1400	188	4.98
Jan. 23	2315	*473	7.85	Mar. 1	0300	147	4.45
Jan. 26	1815	296	6.16	Mar. 13	0500	244	5.63

Minimum daily, 0.02 ft³/s several days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.23	2.8	.89	3.3	30	2.4	4.0	.51	.21	.14	.09
2	.02	.22	1.4	.83	3.1	68	2.3	2.4	.52	.20	.10	.08
3	.02	.14	1.1	.81	2.8	13	2.2	1.9	.50	.18	.14	.08
4	.02	.13	.89	.77	2.5	6.4	2.0	1.7	.48	.18	.11	.07
5	.02	.11	.79	.75	3.7	5.5	1.9	4.9	.47	.17	.12	.08
6	.02	.11	.72	.75	19	4.7	1.8	2.3	.45	.15	.11	.07
7	.03	.12	.67	.71	47	5.9	1.7	1.7	.43	.16	.11	.09
8	.03	.19	.63	.72	26	3.8	1.6	1.5	.40	.16	.11	.08
9	.03	1.1	.60	.70	6.1	3.3	1.5	1.4	.37	.16	.10	.07
10	.04	.32	.55	.67	4.3	5.1	1.5	1.2	.37	.19	.09	.07
11	.03	.19	.51	.64	4.7	3.7	1.5	1.1	.37	.18	.08	.06
12	.03	.15	.52	.64	16	11	1.4	1.1	.36	.17	.08	.07
13	.03	.15	.57	.64	10	51	1.4	1.0	.34	.15	.09	.05
14	.04	.15	.49	.64	4.8	5.4	1.5	.95	.32	.11	.09	.06
15	.04	.13	.50	.64	4.1	3.6	1.4	.92	.32	.11	.09	.06
16	.04	.13	.65	.70	3.4	14	1.3	.91	.31	.10	.08	.08
17	.04	.18	2.4	.60	3.1	17	1.3	.90	.27	.12	.09	.08
18	.07	36	.65	17	18	7.1	2.5	.85	.25	.13	.13	.06
19	.10	3.5	.60	3.1	4.1	3.5	2.4	.81	.24	.12	.26	.06
20	.05	.89	2.3	1.4	3.2	9.4	1.8	.72	.24	.13	.12	.05
21	.10	.62	46	1.1	3.0	5.7	1.4	.69	.22	.13	.10	.06
22	.12	1.1	66	62	2.8	14	1.2	.67	.21	.12	.11	.07
23	.08	.67	8.1	32	5.1	7.6	12	.67	.21	.13	.09	.22
24	.67	.51	2.9	35	4.5	27	4.2	.65	.21	.12	.08	.53
25	4.5	.43	2.0	5.3	28	6.4	4.7	.64	.20	.11	.09	.53
26	1.2	.42	1.6	47	18	4.2	2.1	.63	.19	.11	.09	.28
27	.29	.54	1.4	30	20	7.2	2.6	.62	.21	.11	.08	.05
28	.18	9.0	1.2	11	23	4.0	21	.60	.23	.11	.08	.05
29	.40	6.1	1.1	15	---	3.3	4.2	.56	.21	.13	.11	.06
30	1.7	26	.99	5.7	---	2.9	8.7	.54	.20	.23	.08	.49
31	.31	---	.91	4.0	---	2.7	---	.52	---	.14	.10	---
TOTAL	10.27	89.53	151.54	281.70	293.6	356.4	97.5	39.05	9.61	4.52	3.25	3.75
MEAN	.33	2.98	4.89	9.09	10.5	11.5	3.25	1.26	.32	.15	.10	.12
MAX	4.5	36	66	62	47	68	21	4.9	.52	.23	.26	.53
MIN	.02	.11	.49	.60	2.5	2.7	1.2	.52	.19	.10	.08	.05
AC-FT	20	178	301	559	582	707	193	77	19	9.0	6.4	7.4
CAL YR 1982	TOTAL	1045.95	MEAN	2.87	MAX 172	MIN	0	AC-FT 2080				
WTR YR 1983	TOTAL	1340.72	MEAN	3.67	MAX 68	MIN	.02	AC-FT 2660				

SAN FRANCISQUITO CREEK BASIN

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, and 1.1 mi west of Stanford University Post Office.

DRAINAGE AREA.--37.4 mi².

PERIOD OF RECORD.--October 1930 to September 1941, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WDR CA-82-2: 1980(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 115.75 ft National Geodetic Vertical Datum of 1929. Recording rain gage at Oak Grove Avenue in Menlo Park 1.9 mi north of gage.

REMARKS.--Records good. Flow regulated by Searsville Lake 5 mi upstream, 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.--44 years, 20.4 ft³/s, 14,780 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,560 ft³/s Dec. 22, 1955, gage height, 13.60 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 22	1500	2,530	7.67	Feb. 18	0630	725	4.00
Jan. 24	0024	3,340	9.08	Feb. 25	1515	1,240	5.18
Jan. 26	1930	*3,420	9.21	Mar. 2	0845	1,790	6.28
Jan. 29	0015	720	3.99	Mar. 13	0730	3,240	8.90
Feb. 8	0100	2,110	6.87	Mar. 20	2045	712	3.97

Minimum daily, 0.58 ft³/s Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.73	1.6	87	14	107	723	86	147	12	5.6	3.7	1.3
2	.67	1.2	31	13	92	1340	78	90	11	5.6	1.9	1.3
3	.60	1.1	16	12	77	597	71	75	11	5.3	1.8	2.0
4	.60	1.1	12	11	66	332	59	64	10	5.2	1.8	1.6
5	.59	1.1	9.2	10	83	265	36	119	10	5.1	1.7	1.2
6	.62	1.1	7.8	9.1	351	219	37	95	11	4.5	1.8	1.2
7	.58	1.1	6.9	8.7	1260	241	48	68	11	4.3	1.7	1.1
8	.60	1.2	5.8	9.2	1040	165	48	54	11	4.2	1.9	1.1
9	.64	3.5	5.5	8.3	336	136	47	49	10	4.0	1.7	1.1
10	.72	2.4	5.2	7.7	212	137	42	43	9.6	3.7	1.6	1.0
11	.89	1.5	4.8	6.6	162	130	41	40	9.7	3.5	1.4	1.0
12	.76	1.4	4.5	6.3	310	192	39	38	9.2	2.7	1.4	.96
13	.71	1.2	4.6	6.3	283	1190	36	35	8.7	2.5	1.6	.95
14	.70	1.2	4.6	6.1	178	315	34	29	8.0	2.5	1.5	.98
15	.84	1.2	4.6	6.2	148	202	33	25	7.9	2.5	1.4	1.0
16	.99	1.2	4.9	6.6	123	255	32	22	7.6	2.4	1.4	1.0
17	1.0	1.2	9.5	6.1	102	347	31	21	7.3	2.4	1.5	1.1
18	.98	263	6.1	96	315	285	37	20	7.2	2.3	1.7	1.1
19	1.0	71	5.5	88	152	184	39	19	7.5	2.4	2.5	1.1
20	.97	20	5.9	29	114	264	39	17	7.1	2.4	1.6	1.1
21	1.1	9.7	612	19	98	274	33	16	6.5	2.3	1.5	1.0
22	1.0	7.9	1120	847	93	291	29	16	6.3	2.3	1.4	1.2
23	1.0	6.8	324	397	99	227	118	16	6.0	2.3	1.4	1.1
24	2.0	4.7	107	1090	124	372	102	15	5.9	2.2	1.3	1.1
25	9.9	4.2	63	211	424	234	106	14	5.9	2.3	1.3	1.2
26	10	4.1	44	872	329	166	55	13	5.8	2.1	1.2	1.2
27	2.0	3.8	34	833	379	205	57	14	5.7	2.1	1.2	1.2
28	1.3	66	27	313	548	146	241	13	5.9	1.9	1.3	1.4
29	1.2	122	23	442	---	120	123	12	5.9	2.9	1.2	1.2
30	5.4	328	19	220	---	106	261	12	5.8	4.4	1.1	3.6
31	2.3	---	16	147	---	98	---	12	---	4.3	1.3	---
TOTAL	52.39	935.5	2630.4	5751.2	7605	9758	2038	1223	246.5	102.2	49.8	37.39
MEAN	1.69	31.2	84.9	186	272	315	67.9	39.5	8.22	3.30	1.61	1.25
MAX	10	328	1120	1090	1260	1340	261	147	12	5.6	3.7	3.6
MIN	.58	1.1	4.5	6.1	66	98	29	12	5.7	1.9	1.1	.95
AC-FT	104	1860	5220	11410	15080	19350	4040	2430	489	203	99	74
a	2.02	4.30	3.08	7.00	5.36	8.56	2.89	.19	0	0	.06	.63

CAL YR 1982 TOTAL 23365.46 MEAN 64.0 MAX 2380 MIN .58 AC-FT 46360
WTR YR 1983 TOTAL 30429.38 MEAN 83.4 MAX 1340 MIN .58 AC-FT 60360

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 mi².

PERIOD OF RECORD.--July 1952 to current year.

REVISED RECORDS.--WDR CA-80-2: 1971-74, 1971-75(P), 1978, 1978-79(P).

GAGE.--Water-stage recorder. Datum of gage is 22.07 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 25, 1958, at site 150 ft downstream at different datum.

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

AVERAGE DISCHARGE.--31 years, 2.37 ft³/s, 1,720 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,500 ft³/s Jan. 24, 1983, gage height, 6.51 ft, from rating curve extended above 600 ft³/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 above base of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	0945	233	2.01	Feb. 18	0500	295	2.08
Dec. 22	1345	490	3.03	Feb. 28	1515	598	3.54
Jan. 24	0030	*1,500	6.51	Mar. 2	0215	739	4.06
Jan. 26	1915	1,340	6.02	Mar. 13	0600	436	2.78
Jan. 28	2245	380	2.53	Mar. 16	1530	217	1.97
Feb. 7	2030	886	4.56	Mar. 20	1900	289	2.18

Minimum daily, 0.09 ft³/s Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.55	6.5	1.5	7.6	138	6.8	9.5	4.1	.96	.72	.67
2	.23	.19	2.4	1.5	6.4	324	6.3	6.4	4.2	.86	.96	.54
3	.25	.13	1.6	1.8	5.4	56	5.8	5.5	4.4	.78	.99	.57
4	.31	.18	1.2	1.4	4.7	25	5.9	5.2	4.1	.72	1.0	.48
5	.32	.14	1.1	1.8	8.9	20	5.6	11	4.1	.68	.84	.49
6	.18	.13	.97	1.5	24	17	5.1	6.0	3.8	.44	.67	.34
7	.16	.11	.78	1.6	137	21	4.9	5.0	3.3	.52	.53	.37
8	.16	1.1	.68	1.3	84	12	5.0	4.5	2.8	.48	.40	.40
9	.11	7.1	.68	1.5	14	11	4.8	4.3	1.9	1.3	.36	.39
10	.10	1.4	.67	1.3	9.7	23	4.8	4.0	1.8	.55	.44	.40
11	.09	.43	.90	1.9	11	10	5.0	3.8	1.5	.45	.45	.39
12	.12	.22	.60	1.3	21	16	4.6	3.8	1.5	.50	.37	.53
13	.19	.26	1.3	1.6	20	108	4.3	3.9	1.2	.53	.48	.33
14	.14	.23	.65	1.2	9.5	15	4.2	3.9	1.7	.52	.46	.31
15	.17	.20	.96	3.2	7.6	12	4.3	3.4	1.4	.46	.50	.45
16	.26	.24	.55	2.6	6.4	39	4.0	3.2	1.3	.62	.48	.34
17	.12	.31	.99	1.6	5.7	38	3.8	4.1	.95	.53	.52	.41
18	.14	55	.90	27	40	21	8.2	4.0	.95	.50	1.8	.38
19	.14	6.0	1.4	6.1	9.1	13	8.7	3.7	.85	.60	1.2	.33
20	.19	1.5	1.7	2.6	7.0	50	4.9	2.9	.94	.55	.84	.32
21	.40	.88	76	2.2	6.0	23	4.0	2.7	.95	.61	.72	.29
22	.27	2.1	167	201	5.5	24	3.6	2.7	.88	.58	.67	.32
23	.19	.72	20	106	20	21	30	2.9	.90	.66	.80	.39
24	3.1	1.1	7.1	189	13	57	11	4.1	1.0	.68	.59	.37
25	15	.48	4.0	18	107	18	7.0	3.3	1.1	.66	.73	.35
26	4.7	.45	3.1	210	28	11	4.5	3.1	1.0	.72	.70	.32
27	.36	.45	2.6	85	41	16	8.5	3.3	.97	.86	.66	.36
28	.17	15	2.0	47	133	9.7	31	3.6	1.1	.85	.79	.33
29	1.8	9.3	2.4	53	---	8.9	11	3.8	1.2	.70	.69	.33
30	5.9	51	1.7	15	---	8.1	26	4.1	1.1	.74	.59	8.4
31	.42	---	1.9	9.4	---	7.2	---	4.3	---	.76	.65	---
TOTAL	35.88	156.90	314.33	999.9	792.5	1172.9	243.6	136.0	56.99	20.37	21.60	19.90
MEAN	1.16	5.23	10.1	32.3	28.3	37.8	8.12	4.39	1.90	.66	.70	.66
MAX	15	55	167	210	137	324	31	11	4.4	1.3	1.8	8.4
MIN	.09	.11	.55	1.2	4.7	7.2	3.6	2.7	.85	.44	.36	.29
AC-FT	71	311	623	1980	1570	2330	483	270	113	40	43	39
CAL YR 1982	TOTAL	2342.84	MEAN	6.42	MAX	327	MIN	.06	AC-FT	4650		
WTR YR 1983	TOTAL	3970.87	MEAN	10.9	MAX	324	MIN	.09	AC-FT	7880		

STEVENS CREEK BASIN

11166480 STEVENS CREEK RESERVOIR NEAR MONTE VISTA, CA

LOCATION.--Lat 37°17'55", long 122°04'34", in NW 1/4 sec.27, T.7 S., R.2 W., Santa Clara County, Hydrologic Unit 18050003, at center of dam on Stevens Creek, 2.0 mi southwest of Monte Vista.

DRAINAGE AREA.--17.3 mi².

PERIOD OF RECORD.--December 1935 to current year. Monthly contents prior to October 1959 published in WSP 1735.

GAGE.--Nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).

REMARKS.--Reservoir is formed by earthfill dam completed in 1936. Capacity, 3,600 acre-ft between elevations 444.9 ft, invert of outlet tunnel and 534.8 ft, crest of spillway. Water released down Stevens Creek for irrigation and ground-water recharge by percolation.

COOPERATION.--Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 4,100 acre-ft Dec. 26, 1955, elevation, 538.61 ft; maximum elevation, 539.70 ft Mar. 16, 1967; no contents at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,030 acre-ft Mar. 4, elevation, 528.2 ft; minimum observed, 357 acre-ft Nov. 24-29, elevation, 177.8 ft.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Contents
Sept. 30, 1982.....	693
Oct. 31.....	606
Nov. 30.....	642
Dec. 31.....	743
Jan. 31, 1983.....	607
Feb. 28.....	860
Mar. 31.....	582
Apr. 30.....	933
May 31.....	1,080
June 30.....	1,060
July 31.....	941
Aug. 31.....	884
Sept. 30.....	683

RESERVOIRS IN GUADALUPE RIVER BASIN, CA

- 11166670 ALMADEN RESERVOIR.--Lat 37°09'54", long 121°49'39", in San Vicente Grant, Santa Clara County, Hydrologic Unit 18050003, at center of dam on Alamitos Creek, 0.7 mi southwest of New Almaden, and 7 mi south of Edenvale. DRAINAGE AREA, 12.0 mi². 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 in 1936. Capacity, 1,780 acre-ft between elevations 533.1 ft, invert of outlet tunnel and 606.9 ft, crest of spillway. Water released down Alamitos Creek for ground-water recharge by percolation and minor irrigation. Up to 100 ft³/s diverted to Calero Reservoir at times.
Record of contents furnished by Santa Clara Valley Water District.
EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 2,150 acre-ft Jan. 31, 1963, elevation, 610.24 ft, from floodmarks; no contents at times in each year except 1942-43, 1962-63, 1966, 1968-70, 1973-75.
EXTREMES FOR CURRENT YEAR: Maximum contents observed, 1,830 acre-ft Mar. 2, elevation, 607.8 ft; minimum observed, 277 acre-ft Jan. 10-14, elevation, 565.9 ft.
- 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 mi². 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 ft³/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 each year except 1942-45, 1963-78.
EXTREMES FOR CURRENT YEAR: Maximum contents observed, 10,220 acre-ft Mar. 2, elevation, 484.0 ft; minimum observed, no contents several days during October, elevation, 393.7 ft.
- 11167370 GUADALUPE RESERVOIR.--Lat 37°11'57", long 121°52'42", in Los Capitancillos Grant, Santa Clara County, Hydrologic Unit 18050003, at center of dam on Guadalupe Creek, 3.6 mi northwest of New Almaden, and 5.0 mi southeast of Los Gatos. DRAINAGE AREA, 5.99 mi². 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 in 1936. Capacity, 3,740 acre-ft between elevations 506.8 ft, invert of outlet tunnel and 617.3 ft, crest of spillway. Water released down Guadalupe Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.
EXTREMES FOR PERIOD OF RECORD: Maximum contents 3,790 acre-ft Feb. 19, 1980, elevation, 617.8 ft; maximum elevation, 619.26 ft Feb. 1, 1963, from floodmarks; no contents at times in each year except 1941-43, 1962-63, 1966-67, 1974-78.
EXTREMES FOR CURRENT YEAR: Maximum contents observed, 3,770 acre-ft Apr. 28, elevation, 617.8 ft; minimum observed, 1,350 acre-ft, Nov. 18, elevation, 578.0 ft.
- 11167950 LAKE ELSMAN.--Lat 37°07'51", long 121°55'47", in SE 1/4 sec.23, T.9 S., R.1 W., Santa Clara County, Hydrologic Unit 18050003, at center of Austrian Dam on Los Gatos Creek, and 7.3 mi southeast of Los Gatos. DRAINAGE AREA, 9.78 mi². PERIOD OF RECORD, February 1951 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 San Jose Water Works).
Reservoir is formed by earthfill dam completed in 1951; topped by a 2-foot inflatable surcharge dam since 1956. Usable capacity, 6,280 acre-ft between elevations 944 ft, elevation of outlet gates and 1,112 ft, top of 2-foot inflatable surcharge dam. Dead storage, 60 acre-ft. Water released down Los Gatos Creek for domestic and industrial use. Record of contents furnished by San Jose Water Works.
EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 6,640 acre-ft Jan. 31, 1963, elevation, 1,115.1 ft; no contents Nov. 30, 1968, Nov. 5, 1969, Oct. 31, 1972, Nov. 30, 1974.
EXTREMES FOR CURRENT YEAR: Maximum contents observed, 6,320 acre-ft Feb. 28, elevation, 1,112.4 ft; minimum observed, 1,090 acre-ft Oct. 31, elevation, 1,037.3 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 mi². 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 each year except 1963, 1966-74.
EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 21,090 acre-ft Mar. 2, elevation, 652.0 ft; minimum observed, 9,250 acre-ft Nov. 18, elevation 615.9 ft.

MONTHEND CONTENTS, IN ACRE-Feet (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST) AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Almaden Reservoir	Calero Reservoir	Guadalupe Reservoir	Lake Elsmán	Lexington Reservoir
Sept. 30, 1982.....	1,280	--	2,930	1,860	13,140
Oct. 31.....	569	2,130	1,590	1,090	10,540
Nov. 30.....	630	2,800	1,740	1,340	9,890
Dec. 31.....	766	5,420	2,880	3,450	12,980
Jan. 31, 1983.....	1,550	9,160	3,350	6,180	19,950
Feb. 28.....	1,470	9,730	3,140	6,320	19,710
Mar. 31.....	1,350	9,730	3,060	6,170	19,300
Apr. 30.....	1,770	10,060	3,740	6,200	20,190
May 31.....	1,700	9,980	3,710	6,140	19,300
June 30.....	949	9,570	3,190	5,800	17,270
July 31.....	965	9,000	1,950	4,900	14,840
Aug. 31.....	477	7,590	1,870	3,750	12,730
Sept. 30.....	407	6,200	1,860	2,680	11,110

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water year 1981 to current year.

BIOLOGICAL DATA: Water year 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 1982 TO SEPTEMBER 1983

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, SATUR- ATION	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT TRANS- MISSION 1 METER PATH- LENGTH (%)
DEC										
07...	1357	.50	330	7.9	11.0	750	8.6	79	34	2.1
07...	1358	1.0	330	7.9	11.0	750	8.4	77	18	1.9
07...	1400	2.0	330	7.9	11.0	750	8.8	81	4.6	1.7
07...	1402	3.0	330	7.9	11.0	750	8.8	81	1.6	1.7
07...	1404	4.0	330	7.9	11.0	750	8.5	78	--	1.7
07...	1405	5.0	330	7.9	11.0	750	8.6	79	--	1.7
07...	1406	6.0	330	7.9	11.0	750	8.5	78	--	1.7
07...	1407	7.0	330	7.9	11.0	750	8.7	80	--	1.7
07...	1408	8.0	330	7.9	11.0	750	8.6	79	--	1.7
07...	1409	9.0	330	8.0	11.0	750	8.5	78	--	1.7
07...	1410	10.0	330	8.0	11.0	750	8.5	78	--	1.7
07...	1411	11.0	329	7.9	11.0	750	8.5	78	--	1.7
07...	1412	12.0	329	8.0	11.0	750	8.5	78	--	1.7
07...	1413	13.0	329	8.0	11.0	750	8.4	77	--	1.7
07...	1415	15.0	329	7.9	11.0	750	8.5	78	--	1.7
MAY										
03...	1409	.50	269	8.6	16.5	755	8.5	88	--	2.1
03...	1410	1.0	269	8.3	16.5	755	8.5	88	--	2.1
03...	1411	2.0	269	8.2	16.0	755	8.3	85	--	1.9
03...	1412	3.0	271	8.2	16.0	755	8.4	86	--	1.7
03...	1413	4.0	272	8.2	15.5	755	8.1	82	--	1.7
03...	1414	5.0	274	8.1	15.5	755	8.2	83	--	1.5
03...	1415	6.0	275	8.1	15.0	755	8.6	87	--	1.3
03...	1416	7.0	275	8.1	15.0	755	8.2	82	--	1.2
03...	1417	8.0	275	8.0	15.0	755	7.8	78	--	.92
03...	1418	9.0	277	8.0	14.5	755	7.8	77	--	.92
03...	1419	10.0	277	7.9	14.5	755	7.5	74	--	.61
03...	1420	11.0	275	7.9	14.0	755	7.2	71	--	.61
03...	1421	12.0	271	7.8	13.5	755	6.9	67	--	1.2
03...	1422	13.0	269	7.8	13.5	755	6.5	63	--	1.3
03...	1423	14.0	267	7.7	13.5	755	6.2	60	--	2.1
03...	1424	15.0	266	7.7	13.0	755	6.4	62	--	1.9
03...	1425	16.0	264	7.7	13.0	755	6.2	59	--	1.5
03...	1426	17.0	265	7.7	13.0	755	6.3	60	--	1.3
03...	1427	18.0	264	7.7	13.0	755	6.3	60	--	1.1
03...	1429	20.0	264	7.7	13.0	755	6.1	58	--	.71
03...	1430	21.0	264	7.7	13.0	755	6.0	57	--	.81
03...	1431	22.0	264	7.6	13.0	755	5.8	55	--	.39
03...	1432	23.0	264	7.6	13.0	755	5.8	55	--	.33
JUN										
15...	1330	1.0	311	8.0	22.0	750	7.4	86	--	--
15...	1331	2.0	311	8.0	21.5	750	7.5	87	--	3.8
15...	1332	3.0	311	8.0	21.5	750	7.3	84	--	2.8
15...	1333	4.0	311	8.0	21.5	750	7.2	83	--	2.3
15...	1335	5.0	312	8.0	21.5	750	7.3	84	--	1.7
15...	1336	6.0	309	7.9	21.0	750	6.4	73	--	1.2
15...	1337	7.0	303	7.7	19.5	750	4.8	53	--	.92
15...	1338	8.0	293	7.6	17.0	750	4.2	44	--	.53
15...	1339	9.0	288	7.6	16.0	750	4.5	46	--	.53
15...	1340	10.0	287	7.6	15.5	750	4.7	48	--	.19
15...	1341	11.0	285	7.6	15.0	750	4.4	44	--	.53
15...	1342	12.0	283	7.6	15.0	750	4.4	44	--	.28
15...	1343	13.0	281	7.6	14.5	750	4.2	42	--	.23
15...	1344	14.0	280	7.5	14.0	750	4.1	41	--	.14
15...	1345	15.0	279	7.5	14.0	750	4.0	39	--	.08
15...	1346	16.0	278	7.5	14.0	750	3.6	35	--	.03
15...	1347	17.0	278	7.4	13.5	750	3.4	33	--	.01
15...	1348	18.0	278	7.4	13.5	750	3.2	31	--	<.01
15...	1349	19.0	278	7.4	13.5	750	3.1	30	--	<.01
15...	1350	20.0	278	7.4	13.5	750	2.9	28	--	<.01
15...	1351	21.0	278	7.4	13.5	750	2.9	28	--	<.01
SEP										
07...	1231	1.0	356	8.1	24.0	745	7.2	88	28	.71
07...	1232	2.0	355	8.1	23.5	745	7.1	86	8.7	.53
07...	1233	3.0	355	8.1	23.5	745	7.2	87	3.2	.46
07...	1234	4.0	355	8.1	23.5	745	7.0	84	1.3	.53
07...	1235	5.0	356	8.1	23.0	748	6.9	82	--	.92
07...	1236	6.0	355	8.0	23.0	745	6.6	79	--	1.7
07...	1237	7.0	355	8.0	22.5	745	6.4	76	--	1.7
07...	1238	8.0	355	8.0	22.5	745	6.1	72	--	1.7
07...	1239	9.0	354	7.9	22.5	745	5.5	65	--	2.1
07...	1240	10.0	353	7.8	22.0	745	4.8	56	--	4.1
07...	1241	11.0	352	7.7	22.0	745	3.8	45	--	7.9
07...	1242	12.0	348	7.6	21.5	745	2.8	33	--	7.3
07...	1243	13.0	342	7.4	21.5	745	1.0	12	--	9.2
07...	1244	14.0	327	7.3	19.5	745	.0	0	--	9.8
07...	1245	15.0	320	7.3	19.0	745	.0	0	--	16
07...	1246	16.0	318	7.3	18.0	745	.0	0	--	16
07...	1247	17.0	314	7.3	18.0	745	.0	0	--	17
07...	1248	18.0	312	7.3	17.5	745	.0	0	--	13
07...	1249	19.0	309	7.3	17.5	745	.0	0	--	17

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

						BARO- METRIC PRES- SURE OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION)	LIGHT TRANS- MISSION 1 METER PATH- LENGTH (%)	
DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	(PER- CENT SATUR- ATION)		
SEP										
07...	1250	20.0	308	7.2	17.0	745	.0	0	13	
07...	1251	21.0	308	7.2	17.0	745	.0	0	11	
07...	1252	22.0	308	7.2	17.0	745	.0	0	14	
DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCO FECAL, KF AGAR (COLS. PER 100 ML)
DEC										
07...	1425	1.0	330	7.9	11.0	750	8.4	77	K17	K10
07...	1435	7.0	330	7.9	11.0	750	8.7	80	--	--
07...	1450	14.0	329	7.9	11.0	750	8.5	78	--	--
MAY										
03...	1435	1.0	269	8.3	16.5	755	8.5	88	K4	K10
03...	1440	10.0	277	7.9	14.5	755	7.5	74	--	--
03...	1445	22.0	264	7.6	13.0	755	5.8	55	--	--
JUN										
15...	1400	1.0	311	8.0	22.0	750	7.4	86	K2	K3
15...	1415	8.0	293	7.6	17.0	750	4.2	44	--	--
15...	1430	20.0	278	7.4	13.5	750	2.9	28	--	--
SEP										
07...	1315	20.0	308	7.2	17.0	745	.0	0	<1	K8
07...	1330	14.0	327	7.3	19.5	745	.0	0	--	--
07...	1345	1.0	356	8.1	24.0	745	7.2	88	--	--
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- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
DEC										
07...	150	6	30	19	13	15	.5	1.5	147	23
07...	150	2	30	18	13	16	.5	1.4	147	23
07...	150	3	30	18	13	16	.5	1.4	146	23
MAY										
03...	130	2	24	16	9.0	13	.4	1.4	124	13
03...	130	4	25	16	9.0	13	.4	1.4	124	13
03...	120	4	24	15	8.7	13	.4	1.4	118	13
JUN										
15...	140	1	26	18	9.8	13	.4	1.5	138	13
15...	130	0	24	17	9.1	13	.4	1.4	131	12
15...	130	0	24	16	8.8	13	.3	1.5	125	12
SEP										
07...	140	0	27	17	9.5	13	.4	1.5	137	14
07...	150	0	29	18	10	13	.4	1.6	148	13
07...	160	3	31	20	11	13	.4	1.5	157	14

See footnotes at end of table.

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL)	FLUORIDE, 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)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	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)
DEC										
07...	10	.10	13	200 ¹	.27	.18	.02	.20	.22	.14
07...	11	.10	13	200 ¹	.27	.18	.02	.20	.22	.16
07...	11	.10	13	200 ¹	.27	.18	.02	.20	.22	.18
MAY										
03...	8.2	<.10	14	160 ¹	.22	--	<.02	.20	.24	.10
03...	8.3	<.10	15	160 ¹	.22	.28	.02	.30	.27	.13
03...	7.8	<.10	.5	140 ¹	.19	.38	.02	.40	.39	.06
JUN										
15...	14	.10	13	180 ¹	.24	--	<.02	<.10	<.10	.09
15...	8.4	.10	13	160 ¹	.22	--	<.02	.20	.22	.15
15...	8.2	<.10	15	160 ¹	.22	.38	.02	.40	.42	.16
SEP										
07...	10	.10	15	180 ¹	.24	--	<.02	<.10	<.10	.12
07...	9.3	.10	14	180 ¹	.25	--	<.02	.10	<.10	.12
07...	10	.10	14	200 ¹	.27	--	<.02	<.10	<.10	.08

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC 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, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	MERCURY RECOV. FM BOT- TOMCHA- TERIAL (UG/L AS HG)
DEC										
07...	.140	.66	.46	.80	.60	1.0	.050	.030	<.010	--
07...	.150	.54	.45	.70	.60	.90	.040	.030	<.010	--
07...	.130	.72	.57	.90	.70	1.1	.060	.030	.010	.42
MAY										
03...	.100	.80	.70	.90	.80	1.1	.040	.030	.020	--
03...	.120	.87	.58	1.0	.70	1.3	.050	.040	.020	--
03...	<.060	.54	--	.60	.40	1.0	.060	.050	.050	.48
JUN										
15...	.080	.31	.32	.40	.40	--	.010	.010	.020	--
15...	.100	.05	.10	.20	.20	.40	.020	.010	.020	--
15...	.090	.34	.41	.50	.50	.90	.050	.050	.050	.37
SEP										
07...	.140	.68	.66	.80	.80	--	.040	.020	.030	--
07...	.120	.48	.48	.60	.60	.70	.030	.020	<.010	--
07...	.060	.62	.54	.70	.60	--	.020	.020	<.010	--

DATE	TIME	SAH- PLING DEPTH (M)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUORON (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUORON (UG/L)
DEC				
07...	1425	1.0	.200	<.100
07...	1435	7.0	.100	<.100
07...	1450	14.0	.400	<.100
MAY				
03...	1435	1.0	2.40	<.100
03...	1440	10.0	.600	<.100
03...	1445	22.0	.300	<.100
JUN				
15...	1400	1.0	.700	<.100
15...	1415	8.0	.300	<.100
15...	1430	20.0	.200	<.100
SEP				
07...	1315	20.0	<.100	<.100
07...	1330	14.0	<.100	<.100
07...	1345	1.0	<.100	<.100

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.

1 Results based on Laboratory Alkalinity value.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PHYTOPLANKTON

DATE	DEC 7,82	DEC 7,82	DEC 7,82	MAY 3,83	MAY 3,83	MAY 3,83
TIME	1425	1435	1450	1410	1425	1445
DEPTH (M)	1.0	7.0	14.0	1.0	10.0	20.0
TOTAL CELLS/ML	72	86	460	9000	1200	550
DIVERSITY: DIVISION	1.0	0.0	0.0	0.5	0.8	1.2
..CLASS	1.0	0.0	0.0	0.5	0.8	1.2
..ORDER	1.0	0.0	0.0	0.5	0.8	1.4
..FAMILY	1.0	0.0	0.0	0.5	0.8	1.5
....GENUS	1.0	0.0	0.0	0.5	0.8	1.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)												
..BACILLARIOPHYCEAE												
...BACILLARIALES												
...NITZSCHIA												
...EUPODISCALES												
...COSCINODISCAEAE												
...CYCLOTELLA							7900#	80	940#	78	28	5
...NAVICULALES												
...CYMBELLACEAE												
...AMPHORA												
...NAVICULACEAE												
...NAVICULA	43#	60										
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
...CHLOROCOCCACEAE												
...SCHROEDERIA												
...DICTYOSPHAERIAEAE												
...DICTYOSPHAERIUM												
...HYDRODICTYACEAE												
...PEDIASTRUM					460#	100						
...OOCYSTACEAE												
...ANKISTRODESMUS	29#	40									14	3
...KIRCHNERIELLA												
...SCENEDESMACEAE												
...COELASTRUM							1100	12			220#	41
...VOLVOCALES												
...CHLAMYDOMONADACEAE												
...CHLAMYDOMONAS											14	3
...CHLOROGONIUM												
CHRYSTOPHYTA												
..CHRYSTOPHYCEAE												
...OCHROMONADALES												
...OCHROMONADACEAE												
...OCHROMONAS												
...SYNURACEAE												
...NALLONAS												
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
...ANACYSTIS									270#	22	270#	49
...COCCOCHLORIS												
...OSCILLATORIALES												
...OSCILLATORIAEAE												
...LYNGBYA			86#	100								
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
...TRACHELONAS												

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE TIME DEPTH (M) TOTAL CELLS/ML	PHYTOPLANKTON											
	JUN 15, 83 1400 1.0 2900	JUN 15, 83 1415 8.0 1200	JUN 15, 83 1430 20.0 1000	SEP 7, 83 1315 20.0 2300	SEP 7, 83 1330 14.0 420	SEP 7, 83 1345 1.0 140						
DIVERSITY: DIVISION	1.8	1.7	1.1	1.7	0.9	1.0						
..CLASS	1.8	1.7	1.1	1.7	0.9	1.0						
..ORDER	1.9	1.9	1.2	1.9	0.9	1.0						
...FAMILY	1.9	2.0	1.2	2.2	0.9	1.0						
....GENUS	1.9	2.0	1.2	2.6	1.1	1.4						
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)												
..BACILLARIOPHYCEAE												
...BACILLARIALES												
....NITZSCHIA	--	--	14	1	--	--	--	--	--	--	--	--
....EUPODISCALES												
....COSCINODISCAEAE												
....CYCLOTELLA	530#	18	350#	29	700#	67	380#	16	--	--	--	--
....NAVICULALES												
....CYMBELLACEAE												
....AMPHORA	--	--	--	--	14	1	--	--	--	--	--	--
....NAVICULACEAE												
....NAVICULA	--	--	56	5	--	--	--	14	3	--	--	--
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
....SCHROEDERIA	1300#	47	98	8	--	--	--	--	--	--	--	--
....DICTYOSPHAERIAEAE												
....DICTYOSPHAERIUM	--	--	--	--	--	--	110	5	--	--	--	--
....HYDRODICTYACEAE												
....PEDIASTRUM	--	--	--	--	--	--	--	--	--	--	--	--
....OOCYSTACEAE												
....ANKISTRODESMUS	--	--	28	2	--	--	350#	15	42	10	--	--
....KIRCHNERIELLA	--	--	--	--	--	--	670#	29	42	10	56#	40
....SCENEDESMACEAE												
....COELASTRUM	--	--	--	--	--	--	--	--	--	--	--	--
....VOLVOCALES												
....CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	--	--	--	56	5	98	4	--	--	--	--
....CHLOROGONIUM	56	2	--	--	--	--	--	--	--	--	--	--
CHRYSOPHYTA												
..CHRYSOPHYCEAE												
...OCHROMONADALES												
....OCHROMONADACEAE												
....OCHROMONAS	390	14	84	7	--	--	70	3	--	--	--	--
....SYNURACEAE												
....MALLONAS	--	--	--	--	--	--	28	1	--	--	--	--
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
....CHROOCOCCACEAE												
....ANACYSTIS	560#	19	560#	47	280#	27	570#	25	320#	77	70#	50
....COCCOCHLORIS	--	--	--	--	--	--	--	--	--	--	14	10
....OSCILLATORIALES												
....OSCILLATORIAEAE												
....LYNGBYA	--	--	--	--	--	--	--	--	--	--	--	--
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
....EUGLENACEAE												
....TRACHELOMONAS	--	--	--	--	--	--	28	1	--	--	--	--

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT CENTER (Lat 37°10'57", long 121°46'57", T.9 S., R.2 E., Santa Clara County,
Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT TRANSMISSION 1 METER PATH- LENGTH (%)
DEC									
07...	1325	.50	331	8.0	11.0	750	8.7	81	--
07...	1326	1.0	331	8.0	11.0	750	8.7	81	--
07...	1327	2.0	331	8.0	11.0	750	8.5	79	--
07...	1328	3.0	331	7.9	11.0	750	8.6	80	--
07...	1329	4.0	331	8.0	11.0	750	8.6	80	--
07...	1330	5.0	331	7.9	11.0	750	8.6	80	--
07...	1331	6.0	331	7.9	11.0	750	8.8	82	--
07...	1332	7.0	331	7.9	11.0	750	8.7	81	--
07...	1333	8.0	331	7.9	11.0	750	8.5	79	--
MAY									
03...	1104	5.0	288	8.2	16.0	755	9.1	93	1.9
03...	1105	1.0	288	8.2	15.5	755	9.0	92	1.5
03...	1106	2.0	288	8.3	15.5	755	9.1	92	1.1
03...	1107	3.0	288	8.2	15.5	755	9.1	92	1.1
03...	1108	4.0	289	8.2	15.0	755	8.7	87	1.3
03...	1109	5.0	289	8.2	15.0	755	8.5	85	1.5
03...	1110	6.0	289	8.1	14.5	755	8.1	81	1.3
03...	1111	7.0	289	8.1	14.5	755	8.3	82	1.3
03...	1112	8.0	290	8.0	14.5	755	8.0	79	.92
03...	1113	9.0	292	8.0	14.0	755	7.8	77	.46
03...	1114	10.0	290	7.9	14.0	755	7.7	75	.33
03...	1115	11.0	289	7.9	14.0	755	7.3	71	.28
03...	1116	12.0	285	7.8	13.5	755	7.0	68	.61
03...	1117	13.0	286	7.7	13.5	755	6.7	65	.61
03...	1118	14.0	284	7.7	13.5	755	6.6	64	.81
03...	1119	15.0	284	7.7	13.0	755	6.2	60	.61
03...	1120	16.0	282	7.6	13.0	755	5.6	54	.61
JUN									
15...	1026	1.0	310	8.1	22.0	750	7.2	83	3.8
15...	1027	2.0	310	8.0	21.5	750	7.3	84	4.5
15...	1028	3.0	310	8.0	21.5	750	7.2	83	3.8
15...	1029	4.0	310	8.0	21.5	750	7.0	81	4.1
15...	1030	5.0	312	8.0	21.0	750	6.9	79	1.1
15...	1031	6.0	312	8.0	20.5	750	6.8	77	.81
15...	1032	7.0	308	7.7	19.5	750	5.2	58	.92
15...	1033	8.0	294	7.6	17.0	750	3.7	39	1.1
15...	1034	9.0	291	7.6	15.5	750	3.7	38	.61
15...	1035	10.0	289	7.5	15.0	750	3.3	33	.23
15...	1036	11.0	287	7.5	14.5	750	4.2	42	.71
15...	1037	12.0	284	7.5	14.5	750	3.7	37	.26
SEP									
07...	0931	1.0	355	8.1	23.0	745	7.0	84	.81
07...	0932	2.0	355	8.1	23.0	745	7.0	84	.71
07...	0933	3.0	355	8.1	23.0	745	7.1	85	.71
07...	0934	4.0	355	8.1	23.0	745	6.9	82	.81
07...	0935	5.0	355	8.1	23.0	745	6.8	81	.92
07...	0936	6.0	355	8.0	22.5	745	6.6	78	1.1
07...	0937	7.0	354	8.0	22.5	745	6.4	76	1.3
07...	0938	8.0	354	8.0	22.5	745	6.3	75	1.5
07...	0939	9.0	354	8.0	22.5	745	6.2	73	1.5
07...	0940	10.0	353	7.9	22.0	745	5.4	64	5.3
07...	0941	11.0	352	7.8	22.0	745	4.8	56	6.3
07...	0942	12.0	350	7.6	21.5	745	3.3	38	5.3
07...	0943	13.0	339	7.3	21.0	745	.2	2	4.9
07...	0944	14.0	331	7.3	19.5	745	.0	0	11
07...	0945	15.0	326	7.3	19.0	745	.0	0	11

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT CENTER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAM- PLING DEPTH (M)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)
SEP 07...	1100	14.0	<10	<1	90	<1	<10	<3

DATE	TIME	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	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)	ZINC, DIS- SOLVED (UG/L AS ZN)
SEP 07...	2	4	<1	<.1	<1	6	<1	7	

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-HF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC 07...	1125	1.0	329	7.9	11.0	750	8.7	80	K14	K6
DEC 07...	1135	7.0	329	7.9	11.0	750	8.7	80	--	--
MAY 03...	1125	1.0	288	8.2	15.5	755	9.0	92	K4	K44
MAY 03...	1127	8.0	290	8.0	14.5	755	8.0	79	--	--
MAY 03...	1140	16.0	282	7.6	13.0	755	5.6	54	--	--
JUN 15...	1120	1.0	310	8.1	22.0	750	7.2	83	<1	K4
JUN 15...	1135	8.0	294	7.6	17.0	750	3.7	39	--	--
JUN 15...	1150	14.0	283	7.4	14.0	750	3.6	36	--	--
SEP 07...	1100	14.0	331	7.3	19.5	745	.0	0	<1	K11
SEP 07...	1115	10.0	353	7.9	22.0	745	5.4	64	--	--
SEP 07...	1130	1.0	355	8.1	23.0	745	7.0	84	--	--

DATE	TIME	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 LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
DEC 07...	150	4	30	18	14	17	.5	1.5	145	27	
DEC 07...	150	4	30	18	13	16	.5	1.5	145	25	
MAY 03...	130	3	24	16	9.1	13	.4	1.4	123	13	
MAY 03...	130	2	24	16	9.0	13	.4	1.4	124	13	
MAY 03...	130	6	24	16	8.9	13	.4	1.4	120	13	
JUN 15...	140	0	25	18	9.8	13	.4	1.5	138	12	
JUN 15...	130	0	24	17	9.1	13	.4	1.4	131	12	
JUN 15...	130	0	24	16	8.9	13	.4	1.5	129	12	
SEP 07...	150	4	29	19	10	12	.4	1.6	147	13	
SEP 07...	160	5	31	20	11	13	.4	1.6	155	16	
SEP 07...	160	3	31	20	11	13	.4	1.5	157	15	

See footnotes at end of table.

11166740 CALERO RESERVOIR NEAR ALMADEN, CA--Continued

AT CENTER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL)	FLUORIDE, 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)	NITRO- GEN, NITRATE (MG/L AS N)	NITRO- GEN, NITRITE (MG/L AS N)	NITRO- GEN, NO2+NO3 (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
DEC										
07...	14	.20	13	200 ¹	.28	--	<.02	.20	.24	.14
07...	11	.10	13	200 ¹	.27	--	<.02	.20	.23	.16
MAY										
03...	8.3	<.10	14	160 ¹	.22	--	<.02	.20	.23	.14
03...	8.3	<.10	14	160 ¹	.22	.27	.03	.30	.25	.14
03...	8.0	<.10	15	160 ¹	.22	--	<.02	.40	.28	.15
JUN										
15...	9.3	.10	12	170 ¹	.23	--	<.02	<.10	<.10	.14
15...	8.5	.10	13	160 ¹	.22	--	<.02	.20	.23	.09
15...	8.1	<.10	14	160 ¹	.22	--	<.02	.40	.38	.14
SEP										
07...	9.3	.10	15	190 ¹	.25	--	<.02	.50	<.10	.13
07...	10	.10	14	200 ¹	.27	--	<.02	<.10	<.10	.08
07...	11	.10	13	200 ¹	.27	--	<.02	<.10	<.10	.07

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC 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, SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	MERCURY RECOV. FM BOT- TOMCHA- TERIAL (UG/L AS HG)
DEC										
07...	.14	.56	.46	.70	.60	.90	.05	.050	<.010	--
07...	.13	.54	.47	.70	.60	.90	.04	.040	<.010	.63
MAY										
03...	.14	.46	.36	.60	.50	.80	.05	.030	.020	--
03...	.14	.36	.36	.50	.50	.80	.05	.030	.020	--
03...	.15	.25	.15	.40	.30	.80	.06	.060	.030	.68
JUN										
15...	.08	.06	.12	.20	.20	--	.02	.010	.020	--
15...	.12	.21	.18	.30	.30	.50	.01	.010	.020	--
15...	.11	.26	.19	.40	.30	.80	.06	.040	.040	.50
SEP										
07...	.14	.37	.36	.50	.50	1.0	.05	.020	.010	.59
07...	.09	.62	.61	.70	.70	--	.03	.010	<.010	--
07...	.06	.53	.44	.60	.50	--	.03	.010	.010	--

DATE	TIME	SAM- PLING DEPTH (M)	PRODUC- TIVITY, PRIMARY GROSS (MG O2/ CU M/D)	PRODUC- TIVITY, PRIMARY NET (MG O2/ CU M/D)	RESPI- RATION (MG O2/ M3/D)
DEC					
07...	1430	1.0	430	430	.0
07...	1431	2.0	430	430	.0
07...	1432	3.0	430	430	.0
07...	1433	4.0	.0	.0	.0
MAY					
03...	1430	.80	1600	1200	400
03...	1431	1.6	1600	1200	400
03...	1432	2.6	.0	.0	.0
03...	1433	3.4	400	-400	800
JUN					
15...	1430	1.3	670	1330	.0
15...	1432	3.8	.0	-670	670
15...	1433	5.0	.0	.0	.0
SEP					
07...	1430	1.0	1360	1820	.0
07...	1431	2.0	2270	2270	.0
07...	1432	3.0	.0	.0	.0
07...	1433	4.5	450	910	.0

See footnotes at end of table.

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT CENTER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAM- PLING DEPTH (M)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
DEC				
07...	1125	1.0	.700	<.100
07...	1135	7.0	.600	<.100
HAY				
03...	1125	1.0	3.60	<.100
03...	1127	8.0	1.10	<.100
03...	1140	16.0	.100	<.100
JUN				
15...	1120	1.0	.800	<.100
15...	1135	8.0	.400	<.100
15...	1150	14.0	.200	<.100
SEP				
07...	1100	14.0	<.100	<.100
07...	1115	10.0	<.100	<.100
07...	1130	1.0	<.100	<.100

< 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 Results based on Laboratory Alkalinity value.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT CENTER--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PHYTOPLANKTON

DATE	DEC 7,82	DEC 7,82	MAY 3,83	MAY 3,83	MAY 3,83	JUN 15,83				
TIME	1125	1135	1105	1127	1140	1120				
DEPTH (M)	1.0	7.0	1.0	8.0	16.0	1.0				
TOTAL CELLS/ML	120	230	13000	2800	620	2800				
DIVERSITY: DIVISION	1.0	1.3	0.4	0.1	1.1	1.5				
...CLASS	1.0	1.3	0.4	0.1	1.1	1.5				
...ORDER	1.0	1.9	0.4	0.1	1.3	1.5				
...FAMILY	1.0	1.9	0.4	0.1	1.3	1.7				
...GENUS	1.0	1.9	0.4	0.1	1.3	1.7				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)										
.BACILLARIOPHYCEAE										
...ACHNANTHALES										
...ACHNANTHACEAE										
...ACHNANTHES										
...EUPODISCALES										
...COSCINODISCAEAE										
...CYCLOTELLA										
...FRAGILARIALES										
...FRAGILARIACEAE										
...ASTERIONELLA										
...NAVICULALES										
...NAVICULACEAE										
...NAVICULA										
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
...CHLOROCOCCALES										
...CHLOROCOCCACEAE										
...SCHROEDERIA										
...OOCYSTACEAE										
...ANKISTRODESMUS										
...KIRCHNERIELLA										
...OOCYSTIS										
...VOLVOCALES										
...CHLAMYDOMONADACEAE										
...CHLAMYDOMONAS										
CHRYSTOPHYTA										
.CHRYSTOPHYCEAE										
...OCHROMONADALES										
...OCHROMONADACEAE										
...OCHROMONAS										
...SYNURACEAE										
...MALLONONAS										
...XANTHOPHYCEAE										
...MISCHOCOCCALES										
...SCIADACEAE										
...OPHIOCYTIUM										
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
...CHROOCOCCALES										
...CHROOCOCCACEAE										
...ANACYSTIS										
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
...EUGLENALES										
...EUGLENACEAE										
...EUGLENA										
...TRACHELOMONAS										

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT CENTER--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSIS OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PHYTOPLANKTON

DATE	JUN 15,83	JUN 15,83	SEP 7,83	SEP 7,83	SEP 7,83
TIME	1135	1150	1100	1115	1130
DEPTH (M)	8.0	14.0	14.0	10.0	1.0
TOTAL CELLS/ML	770	740	3400	42	9500
DIVERSITY: DIVISION	1.5	1.4	2.0	0.0	1.5
..CLASS	1.5	1.4	2.0	0.0	1.5
..ORDER	1.6	1.6	2.0	0.0	1.5
...FAMILY	1.8	1.7	2.0	0.0	1.6
....GENUS	1.8	1.7	2.3	0.0	1.8

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)										
.BACILLARIOPHYCEAE										
..ACHNANTHALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-
...EUPODISCALES										
...COSCINODISCAEAE										
....CYCLOTELLA	380#	49	310#	42	640#	19	--	-	2300#	24
..FRAGILARIALES										
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-
..NAVICULALES										
...NAVICULACEAE										
....NAVICULA	14	2	42	6	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHLOROCOCCACEAE										
....SCHROEDERIA	150#	20	14	2	56	2	--	-	140	1
...OOCYSTACEAE										
....ANKISTRODESMUS	42	5	--	-	340	10	--	-	700	7
....KIRCHNERIELLA	--	-	--	-	360	11	--	-	840	9
...OOCYSTIS	--	-	70	9	--	-	--	-	190	2
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	*	0
CHRYSOPHYTA										
.CHRYSOPHYCEAE										
..OCHROMONADALES										
...OCHROMONADACEAE										
....OCHROMONAS	--	-	--	-	810#	24	--	-	--	-
..SYNURACEAE										
....MALLONAS	--	-	--	-	--	-	--	-	--	-
.XANTHOPHYCEAE										
..MISCHOCOCCALES										
...SCIADACEAE										
....OPHIOCYTIUM	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	180#	24	310#	42	1200#	35	42#	100	5200#	55
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT EAST END (Lat 37°11'01", long 121°46'17", T.9 S., R.2 E., Santa Clara County,
Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT TRAN- SMIS- SION 1 METER PATH- LENGTH (%)
DEC									
07...	1645	.50	332	8.0	11.0	750	9.4	86	8.5
07...	1646	1.0	332	8.0	11.0	750	9.4	86	8.5
07...	1647	2.0	332	8.0	11.0	750	9.2	85	6.3
07...	1648	3.0	332	8.0	11.0	750	9.3	86	6.3
07...	1649	4.0	332	8.0	11.0	750	9.3	86	6.3
MAY									
03...	1525	.50	281	8.3	17.5	755	8.9	94	1.5
03...	1526	1.0	282	8.3	17.5	755	9.6	102	.39
03...	1528	2.0	283	8.5	16.5	755	10.0	104	.46
03...	1530	3.0	281	8.3	16.5	755	9.6	99	.61
03...	1532	4.0	282	8.3	16.0	755	9.0	92	.92
03...	1533	5.0	281	8.1	15.5	755	8.4	85	1.3
03...	1534	6.0	283	8.1	15.0	755	7.9	79	1.2
03...	1535	7.0	285	8.0	15.0	755	7.6	76	1.2
03...	1536	8.0	289	7.9	14.5	755	6.9	69	.53
JUN									
15...	1336	1.0	308	8.3	23.5	750	7.4	88	.28
15...	1337	2.0	309	8.2	23.5	750	7.0	84	.18
15...	1338	3.0	309	8.2	23.0	750	7.0	83	.12
15...	1339	4.0	310	8.2	23.0	750	7.0	83	.10
15...	1340	5.0	308	8.1	22.0	750	6.6	77	.13
15...	1341	6.0	309	8.0	21.0	750	6.3	72	.08
15...	1342	7.0	306	7.7	20.5	750	3.5	39	.01
15...	1343	8.0	299	7.5	17.0	750	.7	7	<.01
SEP									
07...	1432	2.0	356	8.1	23.5	745	7.0	84	.46
07...	1433	3.0	356	8.1	23.0	745	6.8	81	.81
07...	1434	4.0	355	8.1	22.5	745	6.2	74	1.0
07...	1435	5.0	355	8.0	22.5	745	6.2	74	.81
JUN									
15...	1530	1.0	308	8.3	23.5	750	7.4	88	K2
15...	1540	5.0	308	8.1	22.0	750	6.6	77	--
15...	1550	7.0	306	7.7	20.5	750	3.5	39	--
SEP									
07...	1445	4.0	355	8.1	22.5	745	6.2	74	--
07...	1500	1.0	356	8.1	24.0	745	7.0	85	1

See footnotes at end of table.

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT EAST END--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

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- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
MAY										
03...	130	0	24	16	9.3	14	.4	1.5	125	13
03...	130	2	24	16	9.1	13	.4	1.4	124	13
03...	130	0	24	16	9.2	14	.4	1.4	126	13
JUN										
15...	140	0	25	18	9.8	13	.4	1.5	140	13
15...	140	0	25	18	9.6	13	.4	1.5	138	13
15...	130	0	25	17	9.4	13	.4	1.4	135	12
SEP										
07...	160	0	31	19	11	13	.4	1.6	156	16
07...	160	0	31	19	11	13	.4	1.6	157	15

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)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	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)
MAY										
03...	8.6	<.10	14	160 ¹	.22	--	<.02	.20	.20	.09
03...	8.5	<.10	13	160 ¹	.22	--	<.02	.20	.19	.11
03...	8.6	<.10	14	160 ¹	.22	.18	.02	.20	.25	.13
JUN										
15...	10	.10	12	170 ¹	.24	--	.04	<.10	<.10	.08
15...	9.1	.10	12	170 ¹	.23	--	<.02	<.10	<.10	.17
15...	8.9	.10	13	170 ¹	.23	--	<.02	.10	.12	.19
SEP										
07...	11	.10	13	200 ¹	.27	--	<.02	<.10	<.10	.10
07...	10	.10	13	190 ¹	.27	--	<.02	<.10	<.10	.08

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- SOLVED (MG/L AS N)	NITRO- GEN, 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)	MERCURY RECOV. FM BOT- TOMCHA- TERIAL (UG/L AS HG)
MAY										
03...	.09	1.2	1.1	1.3	1.2	1.5	.040	.020	.020	--
03...	.08	.39	.42	.50	.50	.70	.040	.020	.020	--
03...	.12	.67	.48	.80	.60	1.0	.040	.030	.020	.50
JUN										
15...	.12	.42	.28	.50	.40	--	.010	.010	.020	--
15...	.12	.23	.28	.40	.40	--	.010	.010	.020	--
15...	.16	.31	.14	.50	.30	.60	.010	.020	.030	.43
SEP										
07...	.08	.60	.52	.70	.60	--	.030	.020	<.010	--
07...	.08	.52	.52	.60	.60	--	.030	.010	<.010	--

DATE	TIME	SAH- PLING DEPTH (M)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
MAY				
03...	1545	1.0	5.70	<.100
03...	1550	4.0	5.50	<.100
03...	1600	7.0	1.50	<.100
JUN				
15...	1530	1.0	1.60	<.100
15...	1540	5.0	1.30	<.100
15...	1550	7.0	.700	<.100
SEP				
07...	1445	4.0	<.100	<.100
07...	1500	1.0	<.100	<.100

< 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).

1 Results based on Laboratory Alkalinity value.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT EAST END--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PHYTOPLANKTON

DATE	DEC 7, 82	DEC 7, 82
TIME	1650	1700
TOTAL CELLS/ML	200	87
DIVERSITY: DIVISION	1.5	0.9
..CLASS	1.5	0.9
...ORDER	1.5	1.3
...FAMILY	1.5	1.3
....GENUS	1.5	1.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)				
.BACILLARIOPHYCEAE				
..FRAGILARIALES				
...FRAGILARIACEAE				
....FRAGILARIA	--	-	14#	17
..NAVICULALES				
...NAVICULACEAE				
....NAVICULA	43#	21	14#	17
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...SCENEDESMACEAE				
....CRUCIGENIA	--	-	58#	67
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS	58#	29	--	-
EUGLENOPHYTA (EUGLENOIDS)				
.EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENACEAE				
....TRACHELONONAS	100#	50	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT EAST END--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PHYTOPLANKTON

DATE	MAY 3,83	MAY 3,83	MAY 3,83	JUN 15,83
TIME	1535	1550	1600	1530
DEPTH (M)	1.0	4.0	7.0	1.0
TOTAL CELLS/ML	52000	50000	3700	4200
DIVERSITY: DIVISION	0.3	0.2	0.2	1.6
..CLASS	0.3	0.2	0.2	1.6
..ORDER	0.3	0.2	0.2	1.7
...FAMILY	0.3	0.2	0.2	1.8
....GENUS	0.3	0.2	0.2	1.8

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...BACILLARIALES								
....NITZSCHIA	--	-	--	-	--	-	35	1
...EUPODISCALES								
....COSCINODISCAEAE								
...CYCLOTELLA	49000#	95	49000#	98	3600#	97	420	10
...NAVICULALES								
...NAVICULACEAE								
....NAVICULA	--	-	--	-	--	-	35	1
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....CHLOROCOCCACEAE								
...SCHROEDERIA	--	-	350	1	--	-	2100#	50
...COCOCCOMYXACEAE								
...ELAKATOTHRIX	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
...ANKISTRODESMUS	350	1	--	-	35	1	--	-
...KIRCHNERIELLA	--	-	--	-	--	-	--	-
...OOCYSTIS	--	-	--	-	35	1	35	1
...SCENEDESMACEAE								
...COELASTRUM	--	-	--	-	--	-	--	-
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	--	-	35	1
CHRYSTOPHYTA								
..CHRYSTOPHYCEAE								
...OCHROMONADALES								
....OCHROMONADACEAE								
...OCHROMONAS	2400	5	700	1	--	-	180	4
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
...ANACYSTIS	--	-	--	-	--	-	1400#	33
...COCCOCHLORIS	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...DINOKONTAE								
....GYMNODINIACEAE								
...GYMNODINIUM	--	-	--	-	35	1	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

AT EAST END--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PHYTOPLANKTON

DATE	JUN 15,83	JUN 15,83	SEP 7,83	SEP 7,83
TIME	1540	1550	1445	1500
DEPTH (M)	5.0	7.0	4.0	1.0
TOTAL CELLS/NL	3700	2900	900	870
DIVERSITY: DIVISION	1.6	1.6	1.0	1.5
..CLASS	1.6	1.6	1.0	1.5
...ORDER	1.7	1.9	1.2	1.8
...FAMILY	1.8	2.3	1.4	1.8
....GENUS	1.8	2.3	1.7	2.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...BACILLARIALES								
....NITZSCHIA	35	1	51	2	--	--	56	6
...EUPODISCALES								
...COSCINODISCAEAE								
....CYCLOTELLA	770#	21	1300#	46	--	--	70	8
...NAVICULALES								
....NAVICULACEAE								
....NAVICULA	--	--	76	3	--	--	--	--
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....CHLOROCOCCACEAE								
...SCHROEDERIA	1700#	45	560#	19	--	--	--	--
...COCCOMYXACEAE								
...ELAKATOTHRIX	--	--	--	--	56	6	--	--
...OOCYSTACEAE								
...ANKISTRODESHUS	70	2	100	4	70	8	130	15
...KIRCHNERIELLA	--	--	--	--	270#	30	220#	26
...OOCYSTIS	--	--	--	--	--	--	--	--
...SCENEDESMACEAE								
...COELASTRUM	--	--	200	7	--	--	--	--
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	35	1	51	2	28	3	42	5
CHRYSTOPHYTA								
..CHRYSTOPHYCEAE								
...OCHROMONADALES								
...OCHROMONADACEAE								
...OCHROMONAS	35	1	51	2	--	--	--	--
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
...ANACYSTIS	1100#	29	480#	17	480#	53	220#	26
...COCCOCHLORIS	--	--	--	--	--	--	130	15
PYRRHOPHYTA (FIRE ALGAE)								
..PYRRHOPHYCEAE								
...DINOKONTAE								
...GYMNODINIACEAE								
...GYMNODINIUM	--	--	--	--	--	--	--	--

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

NEAR EAST END (Lat 37°11'71", long 121°46'34", T.9 S., R.2 E., Santa Clara County,
Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	BAROMETRIC PRESSURE (MM HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, SATURATION (PERCENT)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L AS CACO3)
DEC										
07...	1650	1.0	332	8.0	11.0	750	9.4	96	150	9
07...	1700	3.0	332	8.0	11.0	750	9.3	96	150	3

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)
DEC									
07...	30	19	14	16	.5	1.7	144	25	12
07...	29	18	14	17	.5	1.7	144	24	12

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRITE (MG/L AS N)	NITROGEN, NITRATE (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)
DEC									
07...	.10	13	200 ¹	.27	<.020	.20	.23	.13	.12
07...	.10	12	200 ¹	.27	<.020	.20	.23	.14	.13

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DIS-SOLVED (MG/L AS P)	MERCURY RECOVERED FM BOTTOM SAMPLING TERIAL (UG/L AS HG)
DEC									
07...	.97	.48	1.1	.60	1.3	.05	.03	<.01	--
07...	.76	.57	.90	.70	1.1	.04	.03	<.01	.42

1 Results based on Laboratory Alkalinity value.

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

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

ALMADEN-CALERO CANAL (LAT 37°10'49", long 121°47'25", T.9 S., R.2 E., Santa Clara County
Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	BAROMETRIC PRESURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, SATURATION (PERCENT)	COLIFORMS, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CaCO3)
DEC 07...	1530	321	8.9	7.5	750	13.7	116	K19	K18	160
MAY 03...	1745	331	8.2	23.0	755	7.5	88	>200	60	180
JUN 16...	1115	321	8.1	--	--	9.9	--	K29	230	170

DATE	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY, LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)
DEC 07...	0	31	21	9.1	11	.3	.90	166	17	6.7
MAY 03...	5	18	32	11	12	.4	.90	172	16	9.0
JUN 16...	0	37	20	8.8	10	.3	.70	175	14	5.2

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (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 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)
DEC 07...	.10	15	200 ¹	.27	.08	.02	.10	.15	<.06	.06
MAY 03...	<.10	38	230 ¹	.31	.27	.03	.30	.30	.22	.24
JUN 16...	.10	18	210 ¹	.28	--	<.02	<.10	<.10	.12	<.06

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, SOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	MERCURY, RECOVERED, FM BOTTOMCHARTERIAL (UG/L AS Hg)
DEC 07...	--	.44	.60	.50	.70	.04	.02	<.01	.14
MAY 03...	.88	.76	1.1	1.0	1.4	.06	.09	.04	--
JUN 16...	.28	--	.40	.40	--	.04	.04	.02	--

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

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 at San Jose, 100 ft downstream from Los Gatos Creek.

DRAINAGE AREA.--146 mi².

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. National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Lexington Reservoir 12 mi upstream and Calero, Almaden, Guadalupe Reservoirs, and Lake Elman given elsewhere in this report, with water released during summer for percolation in spreading basins on tributaries. During current year, 13,390 acre-ft was diverted by San Jose Water Works for urban use and zero acre-ft was diverted by Santa Clara Valley Water District into Alamos percolation ponds from Coyote Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft³/s Apr. 2, 1958, gage height, 16.55 ft; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,130 ft³/s Jan. 24, gage height, 12.28 ft; minimum daily, 3.1 ft³/s Oct. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	5.3	115	22	926	4250	340	972	19	21	21	22
2	4.0	11	45	21	857	4160	227	736	19	22	19	26
3	3.6	6.6	27	19	752	2570	198	579	22	24	19	22
4	3.3	14	20	18	649	1720	178	437	22	24	18	21
5	3.6	9.6	19	24	506	1410	127	440	22	21	19	21
6	4.1	9.8	19	22	392	1240	124	416	25	22	19	20
7	6.3	9.8	18	21	671	1010	115	385	28	21	17	21
8	3.9	22	18	22	1380	950	110	384	21	18	17	23
9	3.7	120	14	22	1020	850	107	312	23	20	21	31
10	3.6	92	14	21	869	1440	93	242	23	19	20	31
11	3.6	21	16	18	759	898	76	213	22	19	20	27
12	3.9	10	18	18	902	814	72	198	20	18	22	49
13	4.2	14	19	18	777	1530	96	200	20	19	20	21
14	4.0	9.7	15	18	674	1220	90	195	22	18	19	20
15	3.9	18	17	20	641	1080	131	157	24	18	20	20
16	4.4	15	15	59	605	1140	129	140	21	18	21	20
17	4.2	15	16	22	517	958	88	122	21	20	21	21
18	4.1	402	16	289	612	751	148	120	21	29	19	20
19	4.4	142	14	112	531	694	136	105	21	21	26	26
20	4.3	38	15	35	526	835	189	73	21	21	27	21
21	4.3	30	354	25	445	800	137	32	21	21	21	19
22	4.2	29	1190	1480	319	718	135	34	21	20	21	21
23	4.2	24	360	597	461	732	403	31	20	22	21	23
24	5.8	16	97	3130	417	871	414	33	21	21	21	18
25	125	14	65	859	809	728	322	38	21	22	21	18
26	98	12	72	2110	862	588	282	36	22	22	22	19
27	13	10	55	2630	1270	526	473	31	25	23	22	19
28	3.1	89	44	1850	2450	457	1260	30	22	29	22	18
29	4.8	122	45	1930	---	411	1010	32	20	23	22	17
30	44	558	35	1180	---	391	1280	33	20	21	19	276
31	6.0	---	24	983	---	364	---	29	---	21	18	---
TOTAL	393.0	1888.8	2811	17595	21599	36106	8490	6785	650	658	635	931
MEAN	12.7	63.0	90.7	568	771	1165	283	219	21.7	21.2	20.5	31.0
MAX	125	558	1190	3130	2450	4250	1280	972	28	29	27	276
MIN	3.1	5.3	14	18	319	364	72	29	19	18	17	17
AC-FT	780	3750	5580	34900	42840	71620	16840	13460	1290	1310	1260	1850
CAL YR 1982	TOTAL	50722.2	MEAN	139	MAX	4230	MIN	.64	AC-FT	100600		
WTR YR 1983	TOTAL	98541.8	MEAN	270	MAX	4250	MIN	3.1	AC-FT	195500		

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 mi².

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 and concrete control. Altitude of gage is 500 ft, from topographic map. Prior to Dec. 6, 1968, at site 40 ft downstream at different datum.

REMARKS.--Records fair. Water is diverted for municipal use by San Jose Water Works at diversion dam above station.

AVERAGE DISCHARGE (adjusted for diversion).--50 years, 10.7 ft³/s, 7,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,730 ft³/s Dec. 22, 1955, gage height, 6.40 ft site and datum then in use, from rating curve extended above 510 ft³/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 above base of 110 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	0200	260	4.27	Feb. 18	0515	141	3.81
Dec. 22	1345	561	5.07	Feb. 28	2400	983	5.92
Jan. 18	1730	129	3.75	Mar. 13	Unknown	Unknown	Unknown
Jan. 24	0100	*1,700	7.03	Apr. 28	1030	347	4.52
Jan. 26	1915	1,080	6.08	May 5	1600	145	3.83
Feb. 7	2030	438	4.77				

Minimum daily, 0.29 ft³/s Oct. 5, 6, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.41	2.4	36	9.8	75	491	33	95	14	3.0	.70	.49
2	.38	2.0	16	8.7	68	200	27	66	13	2.8	.79	.55
3	.37	.89	8.4	7.8	59	130	23	55	11	2.6	.67	.60
4	.35	.77	5.4	6.9	51	100	20	46	10	2.7	.61	.67
5	.29	.75	6.1	6.5	54	90	17	74	9.4	2.9	.70	.76
6	.29	.81	6.1	5.9	73	98	15	65	8.6	3.0	.64	.80
7	.31	.85	5.5	5.5	194	82	12	53	9.0	3.0	.59	.81
8	.32	1.0	5.0	5.2	243	74	11	45	8.9	2.6	.64	.92
9	.33	2.6	4.6	4.6	136	65	10	34	7.6	2.1	1.1	.84
10	.33	1.9	3.5	4.5	93	62	9.4	32	7.6	2.0	1.7	.82
11	.29	.75	2.8	4.1	76	68	9.1	32	7.6	1.9	1.5	.74
12	.34	.58	3.7	3.9	145	95	9.3	29	6.8	1.5	1.5	.71
13	.33	.52	3.1	3.6	114	400	8.3	28	6.6	1.2	.42	.69
14	.37	.50	1.6	3.5	89	120	8.5	27	6.4	.93	.49	.75
15	.36	.46	1.5	3.5	72	85	6.8	26	5.7	1.0	.48	.76
16	.35	.51	1.4	4.8	63	140	6.4	40	5.5	.97	.41	.65
17	.35	.50	6.8	4.2	57	97	6.2	39	5.4	1.1	.58	.64
18	.36	13	2.9	30	74	85	13	38	5.3	1.1	.65	.70
19	.35	17	1.6	19	59	74	10	36	4.9	1.2	.77	.63
20	.32	6.1	3.0	11	53	85	7.0	34	4.7	1.0	.61	.66
21	.38	2.2	153	9.5	48	82	5.8	27	4.5	.82	.54	.68
22	.44	1.5	216	172	43	89	4.3	18	4.2	.94	.54	.92
23	.35	2.0	118	196	41	92	8.2	18	4.0	.95	.48	.79
24	.38	2.2	51	441	39	104	8.0	17	3.7	.97	.50	.78
25	10	.97	36	149	115	99	6.3	24	3.6	1.0	.58	.78
26	7.4	1.6	30	273	141	88	4.5	29	3.6	.76	.66	.81
27	2.3	2.7	23	342	188	94	6.5	26	3.5	.67	.56	.77
28	.99	12	18	180	428	78	166	20	3.3	.82	.51	.82
29	.80	18	16	161	---	70	97	12	3.1	.75	.49	.78
30	4.3	115	13	107	---	60	134	11	2.9	.82	.51	2.0
31	2.9	---	11	90	---	45	---	11	---	.71	.49	---
TOTAL	37.04	212.06	810.0	2273.5	2891	3542	702.6	1107	194.4	47.81	21.41	23.32
MEAN	1.19	7.07	26.1	73.3	103	114	23.4	35.7	6.48	1.54	.69	.78
MAX	10	115	216	441	428	491	166	95	14	3.0	1.7	2.0
MIN	.29	.46	1.4	3.5	39	45	4.3	11	2.9	.67	.41	.49
AC-FT	73	421	1610	4510	5730	7030	1390	2200	386	95	42	46
a	64	65	68	105	63	.76	22	152	161	183	165	94
CAL YR 1982	TOTAL	9701.48	MEAN	26.6	MAX	712	MIN	.29	AC-FT	19240	a	1130
WTR YR 1983	TOTAL	11862.14	MEAN	32.5	MAX	491	MIN	.29	AC-FT	23530	a	1142

a Diversion, in acre-feet, furnished by San Jose Water Works.

COYOTE CREEK BASIN

RESERVOIRS IN COYOTE CREEK BASIN, CA

11169850 COYOTE LAKE.--Lat 37°07'06", long 121°32'55", in SE 1/4 sec.29, T.9 S., R.4 E., Santa Clara County, Hydrologic Unit 18050003, at center of dam on Coyote Creek, 3.8 mi northeast of San Martin. DRAINAGE AREA, 120 mi². PERIOD OF RECORD, February 1936 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 rockfill and earthfill dam completed in 1936. Capacity, 23,700 acre-ft between elevations 693.3 ft, invert of outlet tunnel and 777.2 ft, crest of spillway. Water released down Coyote Creek for storage in Anderson Lake. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 28,120 acre-ft Dec. 8, 1950, elevation, 782.5 ft; no contents at times.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 26,520 acre-ft Feb. 8, elevation, 781.6 ft; minimum observed; no contents Sept. 6-30, elevation 692.0 ft.

11169920 ANDERSON LAKE.--Lat 37°09'56", long 121°37'42", in southeast corner of La Laguna Seca Grant, Santa Clara County, Hydrologic Unit 18050003, at center of dam on Coyote Creek, 2.5 mi northeast of Madrone. DRAINAGE AREA, 195 mi². PERIOD OF RECORD, December 1950 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 and rockfill dam completed in 1950. Capacity, 91,280 acre-ft between elevations 439 ft, invert of outlet tunnel and 625.0 ft, of spillway. Water released down Coyote Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 95,990 acre-ft Apr. 3, 1958, elevation, 628.67 ft, from floodmarks; no contents at times in 1960-62.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 95,700 Mar. 2, elevation, 628.3 ft; minimum observed, 63,180 acre-ft Jan. 12, elevation, 599.3 ft.

MONTHEND CONTENTS, IN ACRE-FT (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Coyote Lake	Anderson Lake
Sept. 30, 1982.....	22,060	72,180
Oct. 31.....	21,740	68,450
Nov. 30.....	22,870	68,780
Dec. 31.....	23,360	68,290
Jan. 31, 1983.....	23,680	91,650
Feb. 28.....	23,680	91,650
Mar. 31.....	23,680	91,650
Apr. 30.....	23,680	88,400
May 31.....	22,380	78,830
June 30.....	15,000	79,890
July 31.....	4,950	85,160
Aug. 31.....	270	85,160
Sept. 30.....	0	81,070

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 mi².

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. Altitude of gage is 375 ft, 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.--Records good. Flow regulated by Coyote and Anderson Lakes (stations 11169850 and 11169920); water released during summer. Water is diverted to Main Avenue percolation ponds by Santa Clara Valley Water District.

AVERAGE DISCHARGE (unadjusted).--77 years, 66.1 ft³/s, 47,890 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s probably Mar. 7, 1911 (record furnished by Duryea, Haehl, and Gilman); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,720 ft³/s Mar. 1, gage height, 9.58 ft; minimum daily, 12.0 ft³/s June 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	47	130	373	747	4170	471	431	398	76	61	51
2	41	47	314	373	576	3800	419	432	398	76	57	52
3	41	47	334	373	444	2550	405	433	400	76	57	51
4	42	47	335	373	398	1570	403	433	166	76	56	51
5	42	47	335	373	388	1110	403	433	13	76	57	50
6	42	47	336	373	388	845	403	434	12	76	57	50
7	42	47	336	373	461	774	403	434	16	76	58	51
8	42	47	335	373	2900	681	403	434	78	76	57	52
9	44	48	335	373	2370	706	404	434	112	75	59	53
10	43	47	327	372	1220	579	404	434	122	75	63	52
11	42	47	345	178	802	662	404	434	122	70	63	51
12	42	47	345	23	648	572	404	377	120	63	62	51
13	43	47	207	22	691	1020	404	321	119	62	62	51
14	42	47	82	22	670	1520	404	321	119	62	63	52
15	39	47	91	22	579	1010	409	321	117	62	63	52
16	39	47	100	22	497	818	420	155	117	62	62	51
17	39	47	100	22	434	740	420	377	117	63	63	52
18	39	49	100	22	400	689	313	389	117	63	63	53
19	39	47	105	22	395	640	222	390	115	63	64	53
20	39	52	146	23	385	577	222	390	115	64	64	49
21	37	59	142	26	379	693	222	390	99	64	63	46
22	35	66	224	30	379	711	249	392	91	64	63	46
23	35	72	223	27	379	744	323	392	90	63	60	46
24	36	74	223	247	379	1020	324	393	91	63	54	46
25	38	74	223	373	381	1360	391	394	91	63	53	46
26	38	74	111	381	609	1130	426	393	91	62	52	47
27	37	74	129	419	1140	900	428	393	81	62	52	46
28	37	70	348	461	1560	755	430	395	77	63	52	48
29	44	57	373	558	---	628	430	396	77	63	53	49
30	48	25	373	1180	---	556	431	396	77	63	53	51
31	47	---	373	1000	---	602	---	397	---	63	52	---
TOTAL	1257	1593	7480	8809	20599	34132	11394	12138	3758	2085	1818	1499
MEAN	40.5	53.1	241	284	736	1101	380	392	125	67.3	58.6	50.0
MAX	48	74	373	1180	2900	4170	471	434	400	76	64	53
MIN	35	25	82	22	379	556	222	155	12	62	52	46
AC-FT	2490	3160	14840	17470	40860	67700	22600	24080	7450	4140	3610	2970
a	925	1010	551	534	199	0	0	25	672	775	773	743

CAL YR 1982 TOTAL 48847.7 MEAN 134 MAX 3180 MIN 7.2 AC-FT 96890 a 5700
WTR YR 1983 TOTAL 106562 MEAN 292 MAX 4170 MIN 12 AC-FT 211400 a 6210

a Diversion, in acre-feet, furnished by Santa Clara Valley Water District.

COYOTE CREEK BASIN

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, 0.1 mi upstream from Dutard Creek near northeast limits of San Jose.

DRAINAGE AREA.--21.5 mi².

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 National Geodetic Vertical Datum of 1929. Prior to Aug. 3, 1962, at site 0.4 mi downstream at different datum.

REMARKS.--Records good. Flow partly regulated by Cherry Flat Reservoir 5 mi upstream, capacity, 500 acre-ft.

AVERAGE DISCHARGE.--22 years, 6.42 ft³/s, 4,650 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,970 ft³/s Mar. 31, 1982, gage height, 8.71 ft in gage well, 9.71 ft from outside gage, from rating curve extended above 360 ft³/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 ft³/s Apr. 2, 1958, from information furnished by Santa Clara Valley Water District.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	0600	268	4.58	Mar. 1	0600	738	5.53
Dec. 22	1315	271	4.59	Mar. 10	1945	421	4.96
Jan. 24	0330	818	5.66	Mar. 13	0945	530	5.18
Jan. 26	2100	*1,060	6.05	Mar. 20	2345	179	4.29
Feb. 8	0600	254	4.54	Mar. 25	0015	241	4.50
Feb. 25	1600	250	4.53	Apr. 28	0245	192	4.34

Minimum daily, 0.27 ft³/s Nov. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	.42	55	4.5	65	364	42	73	5.7	3.2	2.8	2.2
2	.33	.38	23	4.1	48	266	39	48	5.7	2.6	2.8	2.2
3	.36	.35	14	3.8	40	200	36	38	5.7	2.6	2.8	2.1
4	.38	.34	9.5	3.6	33	120	33	32	5.7	2.5	2.7	2.1
5	.36	.33	6.7	3.4	29	88	31	34	5.7	2.5	2.8	2.0
6	.41	.29	5.1	3.2	34	70	29	30	5.5	2.7	2.7	2.0
7	.42	.27	3.9	3.0	105	98	28	26	5.1	2.6	2.6	2.0
8	.38	.35	2.9	2.7	230	76	27	23	4.9	2.6	2.5	2.1
9	.35	.60	2.5	2.6	182	62	26	21	4.8	2.6	2.6	2.0
10	.32	1.1	2.2	2.3	109	121	26	19	4.4	2.6	2.7	1.9
11	.31	.64	1.9	2.0	74	186	24	17	4.3	2.5	2.6	1.8
12	.31	.50	1.9	1.8	61	116	22	16	4.0	2.4	2.5	1.8
13	.31	.46	2.1	1.7	86	263	21	15	3.9	2.3	2.5	1.8
14	.32	.46	1.7	1.6	85	174	19	14	3.6	2.2	2.5	1.8
15	.32	.46	1.6	1.6	66	100	19	14	3.5	2.1	2.4	1.8
16	.33	.46	1.4	2.6	55	88	18	13	3.4	2.1	2.3	1.8
17	.31	.49	1.5	1.9	46	83	18	12	3.1	2.0	2.3	1.9
18	.31	11	1.4	6.4	44	80	17	12	3.1	1.9	2.4	1.8
19	.32	6.0	1.3	16	36	69	15	11	2.9	1.9	2.8	1.8
20	.33	2.2	1.3	9.9	31	73	17	10	2.9	1.9	2.6	1.7
21	.31	1.3	33	6.0	28	105	15	7.7	2.7	1.8	2.5	1.8
22	.34	1.2	161	179	26	97	13	6.5	2.7	1.2	2.4	1.8
23	.37	1.8	180	159	44	97	18	6.2	2.5	1.6	2.3	1.8
24	.41	1.3	66	322	80	145	20	6.2	2.5	2.8	2.3	1.8
25	1.9	1.0	35	147	130	185	19	6.0	2.6	3.1	2.3	1.8
26	2.4	.86	22	170	123	110	15	5.9	2.6	3.1	2.3	1.8
27	.64	.76	16	277	101	94	18	5.7	2.8	3.1	2.3	1.5
28	.45	1.5	13	203	184	74	124	5.7	2.9	3.0	2.2	1.1
29	.42	20	11	239	---	62	104	5.7	3.1	3.0	2.2	1.1
30	.89	146	6.2	165	---	52	112	5.7	2.9	2.9	2.2	1.9
31	.56	---	5.2	100	---	49	---	5.7	---	2.9	2.2	---
TOTAL	15.50	202.82	689.3	2045.7	2175	3767	965	545.0	115.2	76.3	77.1	55.0
MEAN	.50	6.76	22.2	66.0	77.7	122	32.2	17.6	3.84	2.46	2.49	1.83
MAX	2.4	146	180	322	230	364	124	73	5.7	3.2	2.8	2.2
MIN	.31	.27	1.3	1.6	26	49	13	5.7	2.5	1.2	2.2	1.1
AC-FT	31	402	1370	4060	4310	7470	1910	1080	228	151	153	109
CAL YR 1982	TOTAL	6222.94	MEAN	17.0	MAX	473	MIN	.23	AC-FT	12340		
WTR YR 1983	TOTAL	10728.92	MEAN	29.4	MAX	364	MIN	.27	AC-FT	21280		

11174600 ALAMO CANAL NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'10", long 121°54'54", in Santa Rita Grant, Alameda County, Hydrologic Unit 18050004, on right bank 30 ft upstream from Valley Community Services District (VCSD) wasteway, 0.7 mi upstream from Arroyo Mocho, 3 mi northwest of Pleasanton.

DRAINAGE AREA.--40.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to September 1983 (discontinued).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 320 ft from topographic map. Prior to Aug. 29, 1979, nonrecording gage at same site and datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,480 ft³/s Jan. 5, 1982, gage height, 17.50 ft, from rating curve extended above 150 ft³/s on basis of slope-area measurement of maximum flow; minimum daily, 0.27 ft³/s Oct. 14, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 25	2100	564	6.24	Feb. 25	1430	885	7.96
Nov. 18	1130	1,110	8.69	Mar. 1	0500	1,450	10.03
Dec. 22	1400	2,130	11.38	Mar. 13	0700	2,290	12.31
Jan. 23	2400	*3,400	14.92	Mar. 17	0330	602	6.65
Jan. 26	2030	2,680	13.33	Mar. 20	2115	598	6.62
Feb. 7	Unknown	1,500	10.08	Mar. 24	1630	878	7.92
Feb. 13	0430	530	5.95	Apr. 28	0730	598	6.64
Feb. 18	1145	551	6.19				

Minimum daily, 1.3 ft³/s Nov. 16.

EXTREMES FOR WATER YEAR 1982 (NOT PREVIOUSLY PUBLISHED):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 13	1715	1,100	7.83	Jan. 5	0230	*4,480	17.50
Dec. 20	0100	700	6.45	Feb. 16	0100	2,270	11.80
Dec. 29	1600	1,130	7.93	Mar. 31	Unknown	Unknown	Unknown

Minimum daily, 1.1 ft³/s Dec. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES
(NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.7	2.8	63	9.0	75	390	12	5.7	4.1	3.6	2.1
2	4.7	1.8	3.3	82	7.5	150	140	11	5.6	4.1	4.4	2.6
3	6.7	1.6	2.3	45	7.3	34	70	11	5.6	3.6	2.7	3.4
4	1.8	1.8	2.3	1630	6.8	19	90	10	5.5	3.9	3.2	3.4
5	1.7	1.6	2.2	1570	5.6	12	45	9.9	5.4	4.1	3.4	3.7
6	1.3	2.1	2.2	110	5.7	10	36	9.6	5.4	4.8	3.7	5.3
7	6.9	1.4	2.4	42	5.7	9.8	32	9.2	5.3	3.9	4.4	4.1
8	1.6	1.3	2.1	26	5.7	13	29	8.8	6.9	3.7	2.5	4.3
9	1.3	1.6	3.3	18	5.2	13	38	8.6	7.8	3.1	3.2	4.3
10	1.9	1.3	3.0	12	4.9	21	117	8.4	6.3	3.4	2.6	4.6
11	1.3	1.4	1.9	10	4.6	30	165	8.1	4.4	3.5	3.0	4.2
12	1.6	44	8.2	8.8	4.3	13	69	7.8	4.4	4.5	3.0	4.1
13	1.9	349	3.3	8.0	13	10	44	7.6	3.8	3.9	3.4	5.1
14	1.2	56	2.9	8.6	141	15	68	7.4	4.2	4.2	3.7	5.3
15	1.2	5.8	4.0	8.3	853	10	28	7.2	3.8	4.4	4.0	8.0
16	1.2	9.5	2.8	7.8	647	39	23	7.0	4.0	4.3	4.2	17
17	1.3	64	1.1	7.5	85	31	21	6.8	4.1	3.9	3.4	11
18	1.4	8.5	11	10	40	22	19	6.8	4.2	4.1	3.7	7.8
19	1.7	3.2	37	29	26	11	19	6.7	4.3	4.9	2.9	6.2
20	1.4	2.0	339	157	21	8.1	18	6.6	4.3	4.6	4.1	6.7
21	1.3	14	53	78	18	8.6	16	6.5	4.8	4.3	2.8	7.0
22	1.4	40	11	17	16	8.2	16	6.4	4.1	4.1	2.1	6.3
23	1.4	6.0	6.2	12	14	9.2	16	6.4	3.9	4.1	2.2	14
24	1.4	35	4.5	11	13	9.6	16	6.2	4.0	3.6	3.4	25
25	1.4	6.5	3.8	10	12	9.2	15	6.2	3.7	4.1	3.4	43
26	1.8	38	4.6	27	11	35	14	6.1	3.4	3.2	1.8	9.7
27	6.1	35	13.5	11	11	20	14	6.0	3.5	4.1	2.3	4.9
28	145	25	4.2	69	10	40	14	6.0	4.0	3.6	2.4	4.0
29	37	5.0	424	18	---	350	13	5.9	8.3	3.6	2.4	3.1
30	2.8	3.0	96	12	---	200	12	5.8	4.4	3.6	2.0	2.3
31	2.0	---	25	9.9	---	1250	---	5.8	---	4.4	2.2	---
TOTAL	245.1	767.1	1082.4	4127.9	2003.3	2485.7	1607	237.8	145.1	123.7	96.1	232.5
MEAN	7.91	25.6	34.9	133	71.5	80.2	53.6	7.67	4.84	3.99	3.10	7.75
MAX	145	349	424	1630	853	1250	390	12	8.3	4.9	4.4	43
MIN	1.2	1.3	1.1	7.5	4.3	8.1	12	5.8	3.4	3.1	1.8	2.1
AC-FT	486	1520	2150	8190	3970	4930	3190	472	288	245	191	461
CAL YR 1981	TOTAL	3838.6	MEAN	10.5	MAX	424	MIN	1.1	AC-FT	7610		
WTR YR 1982	TOTAL	13153.7	MEAN	36.0	MAX	1630	MIN	1.1	AC-FT	26090		

ALAMEDA CREEK BASIN

11174600 ALAMO CANAL NEAR PLEASANTON, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	4.4	25	8.1	40	557	47	52	12	8.0	6.1	4.0
2	2.1	3.0	11	7.5	36	500	43	32	10	7.8	6.1	4.1
3	2.4	3.9	6.8	7.5	34	161	38	25	10	6.9	6.1	3.9
4	3.3	3.1	5.2	7.6	28	173	36	22	10	7.2	5.6	4.0
5	2.4	2.6	4.4	6.9	62	121	33	62	11	6.3	5.4	4.0
6	2.5	2.3	4.4	7.0	110	88	31	37	10	6.5	5.4	4.0
7	2.3	2.5	3.8	6.8	530	152	30	23	10	6.9	5.3	4.0
8	6.0	11	3.1	6.8	358	74	29	21	9.5	6.4	5.0	3.9
9	4.2	26	2.5	6.6	113	62	28	20	10	6.4	5.2	4.3
10	1.9	15	2.6	6.3	69	129	27	18	10	6.2	5.5	4.5
11	3.0	4.8	2.4	6.3	75	107	26	17	9.9	6.3	6.8	4.8
12	3.2	2.5	2.6	7.3	134	193	27	16	10	6.2	4.9	4.9
13	4.5	1.7	3.4	6.5	215	698	23	16	9.8	6.3	4.7	4.8
14	4.6	1.4	2.3	6.1	64	112	20	15	9.8	6.2	5.6	4.7
15	3.9	2.1	3.3	6.6	51	72	19	15	9.2	6.1	6.8	5.1
16	4.6	1.3	2.0	20	35	126	19	15	9.6	6.1	4.7	4.9
17	5.6	5.6	8.8	9.5	28	285	18	14	7.8	6.3	4.8	4.8
18	3.3	395	2.5	115	256	151	40	14	7.8	6.4	4.9	5.0
19	2.4	49	2.0	45	69	81	53	14	8.0	6.3	9.7	4.9
20	2.1	17	10	14	41	165	66	14	7.9	6.3	5.1	5.0
21	3.1	12	264	11	31	135	30	13	8.6	6.2	4.6	5.2
22	3.1	39	825	750	24	214	23	14	7.8	6.3	4.1	5.1
23	5.3	19	160	293	149	195	121	14	7.7	6.3	4.5	5.4
24	5.2	9.9	37	942	119	421	88	13	8.2	6.7	4.0	5.7
25	112	7.7	17	155	370	154	66	13	8.1	7.1	4.6	5.9
26	57	7.1	12	680	163	98	27	13	7.6	7.0	4.3	5.9
27	11	6.7	16	541	252	117	33	13	7.6	6.6	4.3	8.0
28	9.3	58	11	149	355	75	311	13	7.9	6.6	4.2	6.0
29	13	58	10	254	---	64	92	13	7.8	6.0	4.4	6.5
30	37	233	9.4	93	---	56	90	13	8.0	6.0	4.2	166
31	5.8	---	8.5	54	---	54	---	14	---	5.9	4.1	---
TOTAL	327.9	1004.6	1478.0	4229.4	3811	5590	1534	608	271.6	201.8	161.0	309.3
MEAN	10.6	33.5	47.7	136	136	180	51.1	19.6	9.05	6.51	5.19	10.3
MAX	112	395	825	942	530	698	311	62	12	8.0	9.7	166
MIN	1.8	1.3	2.0	6.1	24	54	18	13	7.6	5.9	4.0	3.9
AC-FT	650	1990	2930	8390	7560	11090	3040	1210	539	400	319	613
CAL YR 1982	TOTAL	13869.6	MEAN	38.0	MAX	1630	MIN	1.3	AC-FT	27510		
WTR YR 1983	TOTAL	19526.6	MEAN	53.5	MAX	942	MIN	1.3	AC-FT	38730		

11174600 ALAMO CANAL NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1983 (discontinued).
 CHEMICAL ANALYSES: Water years 1975 to September 1983 (discontinued).
 SPECIFIC CONDUCTANCE: Water years 1979 to September 1983 (discontinued).

PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: October 1979 to September 1983 (discontinued).

INSTRUMENTATION.--Water-quality monitor since October 1979.

COOPERATION.--Chemical-quality samples were collected by Valley Community Services District. Specific conductance field data furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF RECORD.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,980 micromhos Oct. 17, 1979; minimum recorded 168 micromhos Jan. 4, 1982.

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,880 micromhos July 31; minimum recorded, 183 micromhos Mar. 13.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,790 micromhos Dec. 4; minimum recorded, 168 micromhos Jan. 4.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
 (NOT PREVIOUSLY PUBLISHED)

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	552	352	499
2	---	---	---	---	---	---	1720	1560	1660	444	344	396
3	1170	768	1040	---	---	---	1780	1710	1730	522	308	460
4	1340	1170	1250	---	---	---	1790	1640	1700	308	168	209
5	1360	1170	1280	---	---	---	1760	1720	1750	---	---	---
6	1360	1220	1330	---	---	---	1780	1740	1760	---	---	---
7	1370	726	919	---	---	---	1780	1480	1670	---	---	---
8	1300	910	1130	---	---	---	1760	1670	1740	---	---	---
9	1340	1210	1270	---	---	---	1780	1020	1580	---	---	---
10	1290	1150	1200	---	---	---	1530	1230	1380	---	---	---
11	1340	1220	1270	---	---	---	1590	1530	1570	---	---	---
12	1430	1230	1350	---	---	---	1670	572	1150	---	---	---
13	1250	1190	1210	---	---	---	1260	936	1120	---	---	---
14	1450	1250	1380	---	---	---	1340	1230	1270	---	---	---
15	1480	1450	1460	---	---	---	1480	1050	1310	---	---	---
16	1500	1460	1480	---	---	---	1490	1080	1300	---	---	---
17	1510	1480	1490	---	---	---	1540	1450	1490	---	---	---
18	1520	1470	1490	1450	915	1170	1580	626	1180	---	---	---
19	1510	1310	1430	1630	1450	1540	628	236	537	---	---	---
20	1480	1350	1430	---	---	---	380	202	282	---	---	---
21	1520	1480	1500	---	---	---	466	300	385	---	---	---
22	1510	1470	1490	---	---	---	622	466	549	---	---	---
23	1540	1480	1500	---	---	---	744	622	681	---	---	---
24	1550	1520	1530	---	---	---	834	744	785	---	---	---
25	1570	1540	1560	---	---	---	918	834	877	---	---	---
26	1590	1350	1500	---	---	---	962	870	939	---	---	---
27	1500	724	1400	---	---	---	870	632	672	---	---	---
28	806	296	439	---	---	---	808	710	761	---	---	---
29	---	---	---	---	---	---	834	188	464	---	---	---
30	---	---	---	---	---	---	428	294	359	---	---	---
31	---	---	---	---	---	---	530	428	488	---	---	---
MONTH	1590	296	1320	---	---	---	1790	188	1100	---	---	---

SPECIFIC CONDUCTANCE (MICROMHOS/CH AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---							---	---	---
2	1300	1240	1280							---	---	---
3	1320	1260	1290							---	---	---
4	1370	1290	1330							---	---	---
5	1370	1300	1340							062	758	820
6	1360	1290	1330							812	678	721
7	1370	1290	1340							---	---	---
8	1400	1220	1320							---	---	---
9	1420	1310	1360							---	---	---
10	1530	1300	1380							---	---	---
11	1490	1330	1400							---	---	---
12	1540	1320	1440							---	---	---
13	1490	668	1130							---	---	---
14	1010	198	700							---	---	---
15	358	178	249							---	---	---
16	---	---	---							---	---	---
17	---	---	---							---	---	---
18	---	---	---							---	---	---
19	---	---	---							1190	1020	1110
20	---	---	---							1100	996	1050
21	---	---	---							1020	976	998
22	---	---	---							1020	979	1000
23	---	---	---							1030	944	989
24	---	---	---							1090	953	1010
25	---	---	---							1110	1010	1060
26	---	---	---							1110	1010	1070
27	---	---	---							1110	999	1050
28	---	---	---							---	---	---
29	---	---	---							---	---	---
30	---	---	---							---	---	---
31	---	---	---							---	---	---
MONTH	---	---	---							---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1280	1190	1240	1420	1320	1390			
2	---	---	---	1240	1180	1220	1440	1310	1390			
3	---	---	---	1250	1210	1230	1420	1320	1380			
4	---	---	---	1240	1200	1220	---	---	---			
5	---	---	---	1240	1150	1200	---	---	---			
6	---	---	---	1210	1130	1180	---	---	---			
7	---	---	---	1210	1140	1180	---	---	---			
8	---	---	---	1260	1120	1200	---	---	---			
9	---	---	---	1270	1180	1230	---	---	---			
10	---	---	---	1300	1190	1250	---	---	---			
11	1310	1270	1290	1340	1170	1250	---	---	---			
12	1270	1170	1230	1290	1180	1250	---	---	---			
13	1250	1170	1220	1340	1210	1280	---	---	---			
14	1240	1170	1210	1300	1220	1270	---	---	---			
15	1210	1150	1180	1310	1250	1280	---	---	---			
16	1220	1160	1190	1360	1280	1320	---	---	---			
17	1230	1170	1200	1360	1300	1330	---	---	---			

11174600 ALAMO CANAL NEAR PLEASANTON, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	1090	631	864
2	---	---	---	---	---	---	---	---	---	1110	670	845
3	---	---	---	---	---	---	---	---	---	980	658	774
4	---	---	---	---	---	---	---	---	---	855	649	721
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	1080	1010	1060	---	---	---
8	---	---	---	---	---	---	1070	1020	1050	---	---	---
9	---	---	---	668	638	656	1090	1060	1070	---	---	---
10	---	---	---	678	366	581	1100	1050	1080	---	---	---
11	975	477	914	790	432	644	1110	1020	1060	---	---	---
12	581	347	491	824	226	561	1040	907	943	---	---	---
13	640	348	512	521	183	341	924	890	907	---	---	---
14	742	640	710	779	521	642	1130	882	957	---	---	---
15	799	742	781	902	760	813	1150	1070	1120	---	---	---
16	855	799	832	956	470	766	1150	1060	1110	---	---	---
17	884	824	864	616	274	407	1130	998	1060	---	---	---
18	888	308	479	702	388	562	1110	650	961	1260	1170	1220
19	---	---	---	824	656	729	1140	402	867	1240	1160	1210
20	---	---	---	802	304	681	928	506	735	1250	1130	1200
21	---	---	---	698	430	567	1040	734	945	1410	1010	1200
22	---	---	---	698	276	450	1090	1040	1070	1490	887	1090
23	---	---	---	660	326	470	1090	194	751	1470	1030	1130
24	---	---	---	562	242	341	972	266	676	1100	1020	1070
25	---	---	---	681	381	520	890	400	703	1060	1000	1030
26	---	---	---	---	---	---	932	630	753	1080	1010	1050
27	---	---	---	---	---	---	974	416	715	1160	950	1070
28	---	---	---	---	---	---	784	218	559	1270	923	1050
29	---	---	---	---	---	---	840	440	733	1480	920	1170
30	---	---	---	---	---	---	795	655	718	1200	1020	1110
31	---	---	---	---	---	---	---	---	---	1370	1060	1260
MONTH	---	---	---	---	---	---	1150	194	900	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1310	1160	1210	1140	1080	1110	1810	1170	1400	---	---	---
2	---	---	---	1150	1040	1110	1790	1150	1390	---	---	---
3	---	---	---	1180	1080	1130	1750	1200	1390	---	---	---
4	---	---	---	1190	1080	1130	---	---	---	---	---	---
5	---	---	---	1280	1080	1160	---	---	---	---	---	---
6	---	---	---	1270	1190	1240	---	---	---	---	---	---
7	---	---	---	1270	1170	1230	---	---	---	---	---	---
8	1330	1030	1140	1300	1190	1240	---	---	---	---	---	---
9	1160	1000	1090	1350	1170	1240	---	---	---	---	---	---
10	1160	975	1080	1310	1160	1230	---	---				

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 mi².

WATER-DISCHARGE RECORDS

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

AVERAGE DISCHARGE.--38 years, 5.32 ft³/s, 3,850 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,250 ft³/s Jan. 24, 1983, gage height, 8.80 ft, from flood marks; from rating curve extended above 600 ft³/s; no flow for parts of most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, discharge 1,880 ft³/s, by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 90 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	2130	145	4.68	Feb. 25	1815	501	6.65
Nov. 30	0715	465	6.37	Mar. 1	0045	2,080	8.63
Dec. 22	Unknown	641	6.90	Mar. 10	1900	464	6.58
Jan. 24	Unknown	*2,250	8.80	Mar. 13	0815	573	6.78
Jan. 26	2245	1,900	8.46	Mar. 24	1745	278	6.16
Jan. 29	0200	917	7.31	Apr. 28	1130	185	5.88
Feb. 8	0615	329	6.29				

Minimum daily, 0.47 ft³/s Oct. 3-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	1.5	34	4.5	40	1510	52	63	7.5	5.1	2.5	1.7
2	.51	1.4	21	4.7	36	786	49	53	7.7	5.1	2.5	1.8
3	.47	1.3	13	4.7	32	211	47	47	8.0	5.1	2.3	1.8
4	.47	1.2	9.7	4.5	30	121	45	43	7.7	5.4	2.2	1.8
5	.47	1.2	7.4	5.2	35	70	43	41	7.7	5.6	2.1	1.8
6	.47	1.1	6.1	4.8	64	41	41	42	7.7	4.2	2.0	1.9
7	.50	1.1	4.8	3.6	112	49	39	33	7.7	3.5	1.9	1.9
8	.54	1.1	3.8	2.6	195	22	37	28	7.7	4.0	1.8	2.0
9	.57	1.5	2.9	4.0	110	18	36	23	7.7	4.4	1.8	2.0
10	.62	4.0	2.6	5.4	69	142	34	19	8.0	4.4	1.8	1.9
11	.62	3.1	2.4	2.9	52	134	30	19	8.2	4.4	1.8	1.8
12	.65	2.4	2.1	1.8	31	22	27	18	7.9	4.4	1.8	1.5
13	.70	1.9	2.1	3.1	48	271	24	19	7.0	4.4	1.8	1.6
14	.70	1.7	2.1	4.8	39	121	21	18	7.5	4.2	1.8	1.9
15	.74	1.6	2.1	3.9	31	31	20	17	7.7	4.0	1.9	2.1
16	.80	1.5	1.9	11	27	28	20	16	7.3	4.0	1.9	2.3
17	.90	1.5	1.8	6.0	23	62	22	16	6.7	4.4	1.8	2.3
18	.90	27	1.8	20	57	110	23	15	6.7	4.0	1.8	4.0
19	.90	21	1.7	41	43	60	24	14	6.9	4.0	9.9	6.3
20	.90	7.9	1.7	18	33	30	30	14	6.9	4.0	7.5	3.9
21	.91	4.1	1.6	8.0	29	27	24	14	6.7	4.0	4.1	2.4
22	1.0	3.1	340	220	27	110	19	13	6.5	3.8	3.3	1.4
23	1.0	3.5	130	490	37	100	40	12	6.3	4.0	2.9	1.4
24	1.0	3.3	50	940	56	176	36	10	6.1	3.8	2.7	1.4
25	1.8	2.6	27	127	151	136	33	9.8	5.7	3.4	2.7	1.5
26	4.2	2.2	17	312	204	50	22	8.6	5.4	3.1	2.6	1.6
27	2.0	2.1	12	766	168	90	26	8.7	5.4	3.1	2.3	1.7
28	1.4	2.1	8.2	155	488	80	135	8.7	5.2	3.1	1.7	1.8
29	1.3	5.2	6.0	394	---	70	66	7.8	5.9	3.0	1.5	1.7
30	2.3	150	9.7	128	---	62	81	7.7	5.4	2.7	1.5	13
31	2.1	---	8.6	93	---	56	---	7.3	---	2.6	1.6	---
TOTAL	32.00	263.2	735.1	3789.5	2267	4796	1146	665.6	208.8	125.2	79.8	74.2
MEAN	1.03	8.77	23.7	122	81.0	155	38.2	21.5	6.96	4.04	2.57	2.47
MAX	4.2	150	340	940	488	1510	135	63	8.2	5.6	9.9	13
MIN	.47	1.1	1.6	1.8	23	18	19	7.3	5.2	2.6	1.5	1.4
AC-FT	63	522	1460	7520	4500	9510	2270	1320	414	248	158	147

CAL YR 1982	TOTAL	4438.17	MEAN	12.2	MAX	610	MIN	.13	AC-FT	8800
WTR YR 1983	TOTAL	14182.40	MEAN	38.9	MAX	1510	MIN	.47	AC-FT	28130

ALAMEDA CREEK BASIN

11176000 ARROYO MOCHO NEAR LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.
 CHEMICAL ANALYSIS: December 1979 to current year.
 SPECIFIC CONDUCTANCE: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: January 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since January 1979.

COOPERATION.--Chemical-quality samples and specific conductance field data were collected by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,750 micromhos Oct. 15, Nov. 18, 19, 1980; minimum recorded, 103 micromhos Mar. 2, 1983.

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,050 micromhos Oct. 15; minimum recorded, 103 micromhos Mar. 2.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,180 micromhos Dec. 9, 13-15; minimum recorded, 184 micromhos Jan. 4.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
 (NOT PREVIOUSLY PUBLISHED)

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	1110	1090	1100	536	515	529
2				---	---	---	1120	1110	1120	529	494	507
3				---	---	---	1170	1120	1150	511	478	498
4				---	---	---	1170	1160	1160	478	184	343
5				---	---	---	1160	1160	1160	---	---	---
6				---	---	---	1170	1160	1160	---	---	---
7				---	---	---	1170	1160	1170	---	---	---
8				---	---	---	1170	1160	1170	---	---	---
9				---	---	---	1180	1150	1170	---	---	---
10				---	---	---	1170	1170	1170	---	---	---
11				---	---	---	1170	1170	1170	---	---	---
12				---	---	---	1170	1140	1170	---	---	---
13				---	---	---	1180	1160	1170	---	---	---
14				---	---	---	1180	1170	1180	---	---	---
15				857	691	775	1180	1160	1170	---	---	---
16				954	857	916	1170	1160	1160	---	---	---
17				954	877	935	1170	1160	1160	---	---	---
18				970	911	935	1170	1100	1160	---	---	---
19				1040	970	1010	1170	1130	1160	---	---	---
20				1090	1040	1070	1150	887	1080	---	---	---
21				1110	1060	1100	887	854	863	---	---	---
22				1120	1090	1110	921	876	899	---	---	---
23				1100	1080	1090	957	921	942	---	---	---
24				1090	1070	1090	983	957	969	---	---	---
25				1070	1050	1060	997	983	989	---	---	---
26				1070	1020	1050	1010	997	1000	---	---	---
27				1060	1010	1020	1010	1000	1000	---	---	---
28				1050	1020	1030	1010	1000	1000	---	---	---
29				1080	1050	1060	1010	358	818	---	---	---
30				1090	1070	1080	445	340	388	---	---	---
31				---	---	---	522	448	491	---	---	---
MONTH				---	---	---	1180	340	1050	---	---	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	338	287	315			
2				---	---	---	364	338	353			
3				---	---	---	376	364	371			
4				---	---	---	366	354	358			
5				---	---	---	374	354	363			
6				---	---	---	386	374	381			
7				---	---	---	389	366	388			
8				---	---	---	401	389	395			
9				---	---	---	406	397	401			
10				---	---	---	409	403	405			
11				615	523	570	---	---	---			
12				533	513	525	---	---	---			
13				558	533	547	---	---	---			
14				560	550	556	---	---	---			
15				558	550	554	---	---	---			
16				560	531	548	---	---	---			
17				531	453	498	---	---	---			
18				453	406	414	---	---	---			
19				461	419	441	---	---	---			
20				468	461	466	---	---	---			
21				487	468	481	---	---	---			
22				512	487	501	---	---	---			
23				540	512	527	---	---	---			
24				546	534	539	---	---	---			
25				563	546	555	---	---	---			
26				577	563	567	---	---	---			
27				575	568	571	---	---	---			
28				571	538	561	---	---	---			
29				538	343	488	---	---	---			
30				484	452	471	---	---	---			
31				456	287	380	---	---	---			
MONTH				---	---	---	---	---	---			
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	838	834	835	1000	988	992	---	---	---
2	---	---	---	848	838	844	1000	996	997	---	---	---
3	---	---	---	848	848	848	1010	999	1000	---	---	---
4	---	---	---	854	848	849	1000	989	993	---	---	---
5	---	---	---	859	854	855	1000	989	993	---	---	---
6	---	---	---	898	859	875	1000	995	998	---	---	---
7	---	---	---	900	898	900	1010	1000	1000	---	---	---
8	---	---	---	903	900	903	1010	1000	1010	1090	1070	1080
9	---	---	---	911	903	909	1010	1000	1000	1090	1020	1070
10	---	---	---	920	911	915	1010	1000	1000	1090	1070	1090
11	---	---	---	923	920	923	1010	1000	1000	1100	1090	1100
12	---	---	---	932	923	927	1010	1000	1000	1110	1100	1110
13	---	---	---	941	932	936	1010	1000	1000	1110	1100	1110
14	---	---	---	943	941	943	1010	1000	1000	1110	1100	1110
15	---	---	---	952	943	949	1010	995	1000	1100	1100	1100
16	---</											

ALAMEDA CREEK BASIN

11176000 ARROYO MOCHO NEAR LIVERMORE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	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
DEC 21...	1215	2.5	786	8.2	12.0	420	30	35	80	30	13	.6
MAR 17...	1530	81	520	8.3	11.0	250	28	34	39	20	15	.6
JUN 14...	1600	6.4	910	8.6	24.5	460	55	41	87	38	15	.8
AUG 11...	1700	1.7	972	8.5	27.5	450	25	41	84	45	18	.9

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	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, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
DEC 21...	2.4	51	28	.20	9.7	470	455	<.10	460	<3	5
MAR 17...	2.5	42	20	.10	16	300	298	.48	160	7	8
JUN 14...	3.4	82	43	.20	8.1	550	538	<.10	390	63	9
AUG 11...	4.0	70	56	.20	15	570	549	<.10	520	15	42

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1030	1020	1030	---	---	---	---	---	---	663	653	658
2	1040	1030	1040	865	787	827	---	---	---	672	663	668
3	1040	1030	1040	787	716	751	624	570	600	683	672	679
4	1040	1040	1040	748	679	715	663	624	648	694	683	688
5	1040	1020	1030	724	666	702	690	663	678	701	694	697
6	1020	997	1000	740	663	703	712	690	704	709	701	705
7	1000	990	997	728	515	666	724	712	719	716	709	712
8	997	957	982	515	235	332	740	724	735	720	716	719
9	983	963	974	235	165	182	752	740	747	724	720	722
10	997	983	989	210	169	181	760	752	756	732	724	728
11	1010	990	1000	---	---	---	774	760	767	736	732	733
12	1020	1010	1020	694	326	496	782	774	778	756	736	740
13	1020	1020	1020	649	385	466	782	782	782	760	756	756
14	1030	1020	1020	461	416	436	787	782	785	760	756	759
15	1050	1020	1030	464	429	451	796	787	794	765	760	763
16	1020	1020	1020	464	422	446	805	796	799	765	744	750
17	1020	1020	1020	426	354	385	805	805	805	756	740	749
18	1020	1020	1020	663	247	451	805	805	805	765	676	751
19	1020	1020	1020	606	494	562	810	805	808	690	488	552
20	1020	1020	1020	659	606	635	814	805	809	581	529	556
21	1020	1020	1020	694	659	676	814	649	764	618	581	601
22	1020	1000	1010	724	694	712	649	265	410	627	232	492
23	1010	1010	1010	748	724	739	---	---	---	334	286	313
24	1010	892	998	765	748	756	---	---	---	339	185	236
25	983	748	938	778	765	774	---	---	---	---	---	---
26	870	824	847	782	778	781	---	---	---	---	---	---
27	---	---	---	787	782	784	---	---	---	---	---	---
28	---	---	---	787	782	787	---	---	---	---	---	---
29	---	---	---	787	769	776	---	---	---	---	---	---
30	---	---	---	769	500	648	637	618	628	---	---	---
31	---	---	---	---	---	---	653	637	646	---	---	---
MONTH	1050	748	1010	865	165	601	---	---	---	---	---	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	163	121	137	---	---	---	509	477	492
2	---	---	---	125	103	113	---	---	---	623	501	543
3	---	---	---	---	---	---	---	---	---	707	623	673
4	---	---	---	---	---	---	---	---	---	769	693	737
5	561	553	556	---	---	---	---	---	---	779	759	772
6	615	551	588	---	---	---	---	---	---	797	761	778
7	581	323	459	---	---	---	---	---	---	807	621	701
8	---	---	---	---	---	---	---	---	---	639	597	616
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	557	493	534	---	---	---	---	---	---	---	---	---
16	565	461	514	---	---	---	---	---	---	---	---	---
17	501	475	486	---	---	---	---	---	---	---	---	---
18	495	405	435	---	---	---	---	---	---	---	---	---
19	493	441	463	---	---	---	---	---	---	876	844	859
20	517	487	501	---	---	---	---	---	---	865	831	848
21	545	515	526	---	---	---	---	---	---	855	823	838
22	557	539	547	---	---	---	---	---	---	850	814	833
23	567	429	524	---	---	---	---	---	---	842	802	823
24	489	423	451	---	---	---	---	---	---	838	796	820
25	499	179	371	---	---	---	---	---	---	835	795	816
26	179	135	151	---	---	---	---	---	---	837	801	820
27	185	165	174	---	---	---	513	499	506	847	803	826
28	197	111	171	---	---	---	511	447	478	848	796	823
29	---	---	---	---	---	---	539	507	521	844	794	822
30	---	---	---	---	---	---	535	471	498	845	791	821
31	---	---	---	---	---	---	---	---	---	841	789	822
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	843	783	818									
2	838	786	814									
3	856	804	828									
4	867	781	827									
5	864	766	816									
6	856	786	820									
7	863	785	825									
8	862	794	831									
9	869	797	836									
10	874	802	840									
11	875	809	846									
12	881	823	854									
13	890	826	858									
14	893	837	864									
15	900	844	871									
16	899	845	870									
17	908	858	884									
18	916	868	894									
19	919	869	894									
20	920	868	897									
21	919	873	897									
22	922	872	899									
23	925	879	905									
24	935	893	915									
25	938	892	915									
26	939	895	919									
27	940	904	926									
28	937	895	920									
29	934	898	919									
30	938	904	924									
31	---	---	---									
MONTH	940	766	871									
YEAR	1050	103	728									

ALAMEDA CREEK BASIN

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1980 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 465 ft from topographic map.

REMARKS.--Records good. Water from South Bay Aqueduct enters stream about 5 mi upstream of gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,900 ft³/s Jan. 5, 1982, gage height, 5.87 ft; minimum daily discharge, 0.17 ft³/s Aug. 30, 1980, and Sept. 1-8, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft³/s and maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 22	1715	368	3.76	Mar. 10	2145	426	3.88
Jan. 24	0415	1,530	5.46	Mar. 13	1100	1,000	4.80
Jan. 26	2315	*1,590	5.52	Mar. 17	2145	506	4.03
Jan. 29	0200	565	4.14	Mar. 22	1630	401	3.83
Feb. 7	0515	767	4.46	Mar. 24	1830	781	4.48
Feb. 25	2045	746	4.43	Apr. 28	0700	479	3.98
Mar. 1	0245	1,170	5.02				

Minimum daily, 1.0 ft³/s Dec. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.6	8.2	2.6	15	498	28	28	4.2	4.1	3.3	3.8
2	1.3	2.4	4.3	1.9	12	161	26	17	3.9	4.1	3.8	3.4
3	1.3	1.4	2.6	2.0	11	66	23	12	3.7	3.7	3.1	3.5
4	1.2	2.3	3.5	3.0	8.6	56	21	10	3.8	4.2	3.2	3.9
5	1.2	2.0	2.4	2.1	12	42	20	12	3.9	4.5	3.7	3.8
6	1.1	2.1	2.4	3.3	59	38	18	13	3.4	3.4	4.0	3.1
7	1.4	1.4	3.1	2.1	325	75	17	10	3.1	4.3	3.5	3.1
8	1.1	1.4	1.6	3.1	158	33	16	8.5	3.5	4.1	3.3	3.2
9	1.6	3.3	2.6	1.9	46	27	17	8.0	4.2	5.2	3.5	3.2
10	1.2	9.6	1.7	2.5	22	106	16	7.8	4.0	3.9	3.7	3.0
11	1.1	3.6	2.6	4.7	17	97	15	7.1	3.5	4.3	2.9	3.2
12	1.5	2.2	1.6	2.0	28	121	14	6.9	3.9	3.8	2.5	3.1
13	1.2	2.2	1.5	3.0	85	437	14	7.0	3.6	3.5	2.7	2.8
14	1.7	1.5	3.0	2.2	26	70	14	6.9	4.4	2.8	2.7	2.8
15	1.2	1.4	1.9	2.8	14	41	13	6.6	3.1	3.2	2.7	2.7
16	1.4	2.2	2.3	6.9	13	51	13	6.0	3.8	3.5	2.6	2.6
17	1.4	1.4	1.0	3.1	12	182	13	5.7	4.3	3.5	2.7	3.1
18	1.2	46	2.7	13	153	191	17	5.6	3.4	3.6	2.5	2.9
19	1.5	13	1.6	22	42	69	18	5.6	3.9	3.7	9.6	2.8
20	1.3	5.1	2.3	5.9	19	72	20	5.0	4.2	4.1	7.1	2.7
21	1.6	2.1	20	3.1	16	139	14	4.9	3.8	4.1	4.2	2.4
22	1.1	5.2	170	388	13	181	12	4.9	4.5	3.5	3.2	2.7
23	1.8	6.9	50	83	93	101	23	6.0	4.5	3.7	3.3	3.3
24	1.3	2.8	11	532	115	352	26	4.5	4.0	4.4	3.6	2.9
25	17	2.6	6.1	33	222	122	23	4.1	3.5	3.6	3.5	2.8
26	23	1.8	3.4	224	217	49	12	4.0	4.5	3.3	3.8	3.4
27	2.6	2.6	3.6	448	42	78	19	3.9	3.8	4.7	3.5	4.3
28	2.7	1.8	3.4	69	129	46	274	4.3	3.3	3.8	3.6	3.2
29	1.7	3.1	2.6	230	---	38	54	4.1	4.5	3.3	3.6	4.0
30	10	45	3.3	44	---	33	40	4.3	4.0	3.6	3.6	16
31	2.1	---	2.7	21	---	30	---	4.3	---	3.5	3.5	---
TOTAL	91.0	180.0	329.0	2165.2	1924.6	3602	850	238.0	116.2	119.0	112.5	107.7
MEAN	2.94	6.00	10.6	69.8	68.7	116	28.3	7.68	3.87	3.84	3.63	3.59
MAX	23	46	170	532	325	498	274	28	4.5	5.2	9.6	16
MIN	1.1	1.4	1.0	1.9	8.6	27	12	3.9	3.1	2.8	2.5	2.4
AC-FT	180	357	653	4290	3820	7140	1690	472	230	236	223	214
CAL YR 1982	TOTAL	2172.7	MEAN	5.95	MAX	574	MIN	.5	AC-FT	6880		
WTR YR 1983	TOTAL	9835.2	MEAN	26.9	MAX	532	MIN	1.0	AC-FT	19510		

11176145 ARROYO LAS POSITAS AT LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSIS: August 1980 to current year.
 SPECIFIC CONDUCTANCE: August 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1980 to current year.

INSTRUMENTATION.--Water-quality monitor since August 1980.

REMARKS.--Difference between specific conductance recorder values before adjustment and field measurement values exceeded ± 10 percent at times during the year.

COOPERATION.--Chemical samples and specific conductance field data were furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 7,840 micromhos Jan. 6, 1983; minimum recorded, 178 micromhos Jan. 5, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 7,840 micromhos Jan. 6; minimum recorded, 357 micromhos Oct. 25.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--

SPECIFIC CONDUCTANCE: Maximum recorded, 7,290 micromhos July 21; minimum recorded, 168 micromhos Jan. 5. July 15 and August 21 values exceeded limitations of instrumentation, and exceeded maximum recorded.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1050	994	1020	1360	1210	1300	2120	2020	2080	---	---	---
2	1100	1020	1040	1460	1360	1430	2180	2110	2160	---	---	---
3	1250	1030	1110	1650	1460	1560	2290	2180	2240	---	---	---
4	1330	1020	1110	1660	1600	1620	2340	2130	2240	---	---	---
5	1210	1000	1080	1720	1660	1680	2320	2230	2280	515	168	286
6	1090	984	1020	1800	1650	1700	2440	2180	2340	1390	515	939
7	1360	1010	1080	1830	1760	1800	2440	2290	2360	2180	1390	1840
8	1180	1000	1050	1760	1610	1670	2430	2370	2400	2640	2070	2410
9	1030	992	1010	1680	1610	1650	2440	2290	2380	2910	2640	2770
10	1120	1000	1040	1730	1640	1690	2510	2250	2380	3050	2910	2980
11	1090	972	1010	1720	1390	1670	2500	2250	2400	3150	3050	3110
12	980	962	970	1720	496	1420	3310	2200	2390	3250	3130	3190
13	1000	942	967	1550	394	1100	3520	2020	2690	3250	3130	3220
14	969	925	943	621	380	565	2120	1970	2010	3150	3080	3110
15	999	896	964	753	621	703	2250	2070	2180	3280	3130	3200
16	988	949	965	902	753	842	2260	2120	2210	3370	3280	3330
17	976	912	952	1030	902	987	2430	2130	2290	3400	3310	3350
18	972	939	954	1150	1030	1110	2510	2190	2320	3430	3280	3350
19	995	962	960	1270	1150	1230	3550	1350	2350	4770	1770	2730
20	1040	942	989	1350	1270	1330	1410	575	816	3180	1160	2100
21	1010	922	977	1450	1350	1420	1070	893	986	1320	984	1090
22	1010	955	982	1540	1450	1510	1210	1070	1140	1920	1320	1630
23	988	918	961	1640	1540	1580	1350	1210	1270	2510	1920	2240
24	1190	972	1040	1690	1640	1680	1480	1350	1410	2930	2510	2760
25	1330	1190	1250	1750	1690	1730	1640	1480	1560	3230	2930	3130
26	1390	1330	1380	1790	1740	1780	1760	1640	1700	3800	3230	3390
27	1450	1350	1420	1840	1790	1830	1930	1760	1850	3760	3050	3310
28	1480	834	974	1880	1840	1870	2250	1930	2100	3280	1620	2670
29	976	932	947	1960	1880	1940	---	---	---	3200	2720	3100
30	1090	976	1060	2040	1950	2000	---	---	---	3200	3050	3110
31	1210	1090	1180	---	---	---	---	---	---	3180	3080	3130
MONTH	1480	834	1050	2040	380	1480	3550	575	2020	4770	168	2650

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3310	3180	3240	4340	2450	3630	---	---	---	2080	2000	2030
2	3340	3250	3300	3900	1830	2700	---	---	---	2010	1960	1980
3	3280	3230	3250	2300	1960	2070	---	---	---	2110	1930	2020
4	3800	3230	3510	3030	2290	2620	---	---	---	2150	2070	2090
5	3870	3730	3790	3490	3030	3300	---	---	---	2110	2010	2090
6	4190	3370	3520	3830	3490	3700	3180	2400	2760	2090	2010	2050
7	6220	1470	2240	4150	3830	3970	3370	3180	3250	2030	1590	1810
8	1490	1390	1440	4320	3980	4170	3620	3370	3520	1590	1390	1450
9	1430	1330	1370	6050	1680	2530	3760	3620	3690	1400	1290	1340
10	1350	1300	1320	1800	515	1550	4110	1920	3480	1300	1260	1280
11	1330	1250	1290	1850	377	1180	2780	1030	1550	1260	1220	1240
12	1250	1150	1190	1030	401	655	2040	1240	1620	1240	1200	1230
13	1550	1180	1260	2080	1030	1560	2700	2040	2370	1250	1210	1230
14	1400	902	1320	3000	2080	2590	3280	2700	2980	1240	1210	1230
15	1890	376	903	3460	3000	3310	3490	2740	3000	1240	1170	1210
16	806	475	580	3430	2550	2990	3150	2850	3030	1240	1070	1150
17	1830	806	1410	3520	3180	3340	3370	3150	3280	---	---	---
18	2710	1830	2300	3520	1850	2390	3460	3370	3400	---	---	---
19	3240	2710	3040	3050	2530	2760	3400	3280	3360	1140	1090	1110
20	3580	3240	3460	3340	3050	3200	3490	3340	3400	1320	1110	1200
21	3830	3550	3750	3590	3340	3510	3460	3280	3380	---	---	---
22	3960	3830	3920	3730	3590	3680	3490	3340	3410	---	---	---
23	4000	3800	3930	3870	3660	3760	4370	1540	2560	1330	1290	1310
24	3960	3830	3900	3940	3660	3820	2340	1440	1720	1560	1320	1440
25	4070	3860	3960	3980	3690	3870	2430	1980	2130	1610	1530	1570
26	4140	3970	4040	5480	1460	2250	2010	1920	1980	1580	1500	1550
27	4260	4000	4110	2760	1810	2100	1990	1720	1950	1630	1480	1550
28	4260	4040	4110	3280	2040	2750	2580	1210	2270	---	---	---
29	---	---	---	3050	598	1770	2260	2100	2150	---	---	---
30	---	---	---	840	585	670	2120	2050	2080	4010	2020	2640
31	---	---	---	955	217	491	---	---	---	2540	1850	2090
MONTH	6220	376	2690	6050	217	2670	4370	1030	2730	4010	1070	1600
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1950	1750	1810	2430	1470	1690	1680	1520	1610	1600	1500	1560
2	1750	1610	1650	1680	1480	1550	1760	1580	1680	1590	1480	148

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	POTAS- SIUM, DIS- SOLVED (HG/L AS K)	SULFATE DIS- SOLVED (HG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (HG/L AS CL)	FLUO- RIDE, DIS- SOLVED (HG/L AS F)	SILICA, DIS- SOLVED (HG/L AS SIO2)	SOLIDS, SUM OF CONSTIT- TUENTS, DIS- SOLVED (HG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (HG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (HG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
FEB 28...	4.1	95	240	.50	13	750	778	3.2	3800	18	31
JUN 13...	2.4	190	380	.60	18	1200	1280	7.4	5500	30	20

[illegible]

11176145 ARROYO LAS POSITAS AT LIVERMORE, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	819	519	617	---	---	---	---	---	---
2	---	---	---	874	794	827	---	---	---	---	---	---
3	---	---	---	1220	839	1010	---	---	---	---	---	---
4	---	---	---	1350	1220	1330	---	---	---	---	---	---
5	---	---	---	1520	1330	1460	1860	1820	1840	2030	1850	1990
6	---	---	---	1650	1520	1590	1880	1840	1850	2060	1900	1980
7	---	---	---	1670	1380	1500	1890	1840	1860	2070	1970	2020
8	---	---	---	1520	1400	1460	1870	1810	1840	2080	2020	2050
9	---	---	---	1750	1520	1650	1890	1850	1870	2060	2000	2030
10	---	---	---	1890	1210	1720	1900	1870	1890	2050	2000	2030
11	---	---	---	1250	1160	1200	1920	1880	1910	2060	2010	2040
12	---	---	---	1520	1180	1380	1940	1890	1910	2080	2020	2050
13	---	---	---	1180	737	898	1920	1900	1910	2080	2020	2050
14	---	---	---	1280	902	1090	---	---	---	2080	2020	2040
15	---	---	---	1590	1280	1480	---	---	---	2080	1970	2030
16	---	---	---	1800	1590	1730	---	---	---	2060	1980	2020
17	---	---	---	1800	1170	1640	---	---	---	2080	1160	1850
18	---	---	---	1170	1090	1120	---	---	---	---	---	---
19	---	---	---	1420	1170	1300	---	---	---	---	---	---
20	2050	1540	1830	1750	1420	1590	---	---	---	---	---	---
21	2300	2050	2210	1740	1340	1450	---	---	---	---	---	---
22	2380	2300	2360	1530	1260	1400	---	---	---	---	---	---
23	2430	1040	2060	1400	1240	1270	---	---	---	---	---	---
24	1250	704	1050	1440	1050	1330	---	---	---	---	---	---
25	1200	489	1020	---	---	---	---	---	---	---	---	---
26	774	544	664	---	---	---	---	---	---	---	---	---
27	1010	769	886	---	---	---	---	---	---	---	---	---
28	1250	834	1090	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	1790	1590	1640	1930	1740	1790
2	---	---	---	---	---	---	1710	1570	1650	1870	1710	1760
3	---	---	---	---	---	---	1730	1580	1650	1880	1700	1760
4	---	---	---	---	---	---	2050	1580	1790	1900	1730	1780
5	---	---	---	---	---	---	1860	1620	1740	1870	1700	1740
6	---	---	---	---	---	---	1730	1550	1610	1800	1660	1700
7	---	---	---	---	---	---	1650	1520	1560	1780	1650	1710
8	---	---	---	---	---	---	1850	1510	1630	1870	1700	1760
9	---	---	---	---	---	---	1720	1560	1620	1870	1690	1740
10	---	---	---	---	---	---	1650	1480	1550	1950	1	

11176180 ARROYO LAS POSITAS AT EL CHARRO ROAD, NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'49", long 121°50'54", in Santa Rita Grant, Alameda County, Hydrologic Unit 18050004, on left bank at Santa Rita Rehabilitation Center Annex, 400 ft downstream from El Charro Road, and 2.8 mi northeast of Pleasanton.

DRAINAGE AREA.--75.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1977 to September 1983 (discontinued). Records prior to October 1977 in files of Alameda County Flood Control and Water Conservation District.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 350 ft from topographic map.

REMARKS.--Records good. Low flow affected by release flows from South Bay Aqueduct for ground-water recharge and water-quality improvement. Summer flow affected by diversions into basin above station from Arroyo Mocho Creek for irrigation.

COOPERATION.--Gage-height record and 11 discharge measurements were furnished by Alameda County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,380 ft³/s Mar. 31, 1982, gage height 8.07 ft, from rating curve extended above 1,370 ft³/s; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 22	1445	644	5.62	Mar. 10	2215	448	4.96
Jan. 24	0130	*1,230	7.55	Mar. 13	0630	975	6.72
Jan. 27	0030	1,170	7.35	Mar. 18	0500	409	4.84
Feb. 7	Unknown	Unknown	Unknown	Mar. 21	0345	483	5.12
Feb. 25	2015	915	6.52	Mar. 24	2300	957	6.73
Mar. 1	0415	1,050	6.97	Apr. 28	0745	909	6.50

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.35	12	3.0	17	574	50	32	6.1	3.7	2.8	1.9
2	0	.67	4.8	2.6	14	321	40	20	5.9	3.6	1.7	1.9
3	0	.26	2.1	2.7	13	114	36	17	5.5	3.2	2.9	1.9
4	0	.21	2.6	4.0	11	99	33	13	5.5	3.4	1.7	2.1
5	0	.52	1.5	2.7	36	71	30	17	5.5	3.4	2.3	1.9
6	0	.78	1.3	4.3	120	63	28	23	5.3	3.2	2.5	1.7
7	0	.21	2.1	2.7	370	152	26	20	4.7	3.1	2.6	1.1
8	0	.14	1.1	4.1	130	55	25	19	4.5	3.5	1.8	1.7
9	0	3.8	1.7	2.6	60	44	24	17	4.6	3.6	2.3	1.7
10	0	14	1.1	4.0	27	122	23	16	5.7	3.4	2.3	1.4
11	0	3.4	1.7	7.0	22	158	22	15	4.4	3.2	1.9	1.6
12	0	.97	1.1	2.7	52	191	22	13	4.6	3.0	1.7	1.5
13	0	1.3	1.2	4.0	100	556	22	12	4.4	2.5	1.4	1.5
14	0	.49	1.8	2.9	42	86	21	11	5.2	2.2	1.7	1.3
15	0	.29	1.7	3.5	18	56	20	11	3.9	2.1	1.6	1.2
16	0	.85	1.8	10	17	100	19	10	4.4	2.1	1.6	1.1
17	0	.84	.73	4.6	16	155	19	9.2	4.4	2.5	1.4	.93
18	0	84	1.6	13	180	272	24	8.6	4.0	2.5	1.5	1.7
19	0	24	1.0	32	68	91	27	8.4	4.4	2.4	8.7	1.0
20	0	5.9	2.3	12	25	52	34	7.9	4.5	2.8	6.8	1.1
21	0	1.8	45	4.5	22	227	21	7.5	3.9	2.2	3.0	.94
22	0	6.5	279	277	20	210	19	7.4	3.8	2.3	2.4	1.1
23	0	11	79	119	115	168	53	7.9	3.8	2.1	2.0	1.2
24	0	2.7	14	600	179	395	47	7.9	3.7	2.3	1.9	1.4
25	26	2.2	5.4	42	335	363	46	6.6	3.4	2.8	2.1	1.3
26	30	1.2	3.8	232	275	133	21	6.4	3.5	1.9	2.2	1.4
27	3.2	1.8	4.0	533	76	159	97	6.4	3.5	2.7	2.1	1.8
28	1.2	4.0	3.8	72	183	100	340	6.2	3.1	3.0	2.0	2.1
29	.51	4.5	3.1	289	---	84	115	6.0	3.7	2.2	1.9	1.8
30	14	74	4.3	49	---	71	52	6.0	3.7	2.1	1.9	21
31	1.9	---	3.2	28	---	60	---	6.0	---	2.3	1.9	---
TOTAL	76.81	252.68	489.83	2369.9	2543	5302	1356	374.4	133.6	85.3	74.6	64.27
MEAN	2.48	8.42	15.8	76.4	90.8	171	45.2	12.1	4.45	2.75	2.41	2.14
MAX	30	84	279	600	370	574	340	32	6.1	3.7	8.7	21
MIN	0	.14	.73	2.6	11	44	19	6.0	3.1	1.9	1.4	.93
AC-FT	152	501	972	4700	5040	10520	2690	743	265	169	148	127
CAL YR 1982	TOTAL	5613.56	MEAN	15.4	MAX	928	MIN	0	AC-FT	11130		
WTR YR 1983	TOTAL	13121.39	MEAN	35.9	MAX	600	MIN	0	AC-FT	26030		

ALAMEDA CREEK BASIN

11176180 ARROYO LAS POSITAS AT EL CHARRO ROAD, NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to September 1983 (discontinued).

CHEMICAL ANALYSES: Water years 1979 to September 1983 (discontinued).

SPECIFIC CONDUCTANCE: Water years 1979 to September 1983 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1978 to September 1983 (discontinued).

INSTRUMENTATION.--Water-quality monitor since December 1978.

COOPERATION.--Chemical-quality samples and specific conductance field data were furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 4,850 micromhos Jan. 1, 1981; minimum recorded, 195 micromhos Jan. 4, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,700 micromhos Jan. 6; minimum recorded, 255 micromhos Jan. 24.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--

SPECIFIC CONDUCTANCE: Maximum record, 4,510 micromhos Feb. 7; minimum recorded, 195 micromhos Jan. 4.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	955	750	874	1120	1060	1100	---	---	---	1150	955	1060
2	965	750	861	1140	1080	1120	---	---	---	960	630	714
3	960	905	936	1150	1140	---	1880	1750	1830	885	780	820
4	955	870	900	---	---	---	1990	1850	1910	885	195	385
5	1090	955	1030	---	---	---	1990	1800	1910	458	243	303
6	1140	1030	1070	1180	1170	---	1940	1790	1900	955	458	703
7	1070	985	1030	1180	1100	1160	1960	1940	1950	1510	955	1220
8	985	825	910	1170	1150	---	1980	1960	1970	1860	1510	1680
9	1130	985	1070	---	---	---	1960	1940	1950	2140	1860	2000
10	1060	975	1010	---	---	---	2000	1940	1960	2330	2140	2240
11	990	920	961	---	---	---	2020	1960	1990	2510	2330	2440
12	1070	990	1030	---	---	---	2020	1310	1890	2640	2510	2570
13	1020	935	982	---	---	---	1310	875	1000	2710	2640	2670
14	1040	925	979	---	---	---	1420	835	1020	2830	2710	2770
15	985	915	947	---	---	---	2010	1420	1760	2920	2830	2890
16	960	920	942	---	---	---	2470	2010	2280	2930	2910	2920
17	980	930	950	---	---	---	2480	2070	2310	2920	2900	2900
18	975	915	942	---	---	---	2070	1720	1860	3010	2920	2960
19	965	910	935	---	---	---	1800	685	1010	3050	1950	2500
20	960	925	941	---	---	---	1780	290	712	3000	570	1700
21	980	935	956	---	---	---	1040	685	879	980	830	877
22	1010	945	971	---	---	---	1080	925	975	1300	980	1160
23	1010	935	971	---	---	---	1250	1080	1180	1590	1300	1430
24	1010	940	973	---	---	---	1370	1250	1310	1870	1590	1710
25	970	930	948	---	---	---	1530	1350	1440	2180	1870	2030
26	970	965	---	---	---	---	1630	1480	1560	2540	2180	2370
27	---	---	---	---	---	---	1660	1560	1640	2400	1750	1950
28	1030	255	---	---	---	---	1770	1600	1690	2730	1210	1790
29	990	370	610	---	---	---	1770	435	1120	1410	1220	1270
30	958	868	928	---	---	---	645	510	581	1960	1410	1650
31	1090	958	1030	---	---	---	955	645	781	2480	1960	2280
MONTH	1140	255	953	---	---	---	2480	290	1530	3050	195	1810

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2720	2480	2650	---	---	---	595	345	469	1970	1880	1930
2	2890	2720	2830	---	---	---	930	595	775	1950	1830	1890
3	3050	2890	2990	---	---	---	1070	910	973	1920	1760	1850
4	3170	3020	3130	---	---	---	1150	890	1010	1890	1740	1800
5	3210	3170	3190	2030	1760	1900	1360	1100	1250	1800	1760	1780
6	3210	3000	3100	2340	2030	2190	1730	1360	1530	1820	1770	1790
7	4510	3020	3360	2570	2340	2440	2060	1730	1920	1800	1720	1770
8	3510	1670	1910	2790	2570	2660	2140	2060	2090	1780	1420	1560
9	1670	1530	1580	4310	2510	3090	2260	2140	2210	1420	1300	1340
10	1540	1450	1490	2510	625	1620	2320	595	1910	1300	1220	1250
11	1460	1420	1440	1310	445	978	945	660	861	1220	1190	1200
12	1430	1350	1390	775	445	576	985	940	953	1190	1160	1180
13	1350	1100	1280	1250	775	1020	1670	985	1310	1180	1160	1170
14	1460	555	1170	1580	1250	1480	1810	960	1440	1190	1160	1170
15	1130	360	620	2290	1550	1980	2220	1150	1760	1180	1170	1170
16	---	---	---	2510	1530	2030	2170	1990	2060	1170	1130	1150
17	---	---	---	2350	1940	2070	2240	2110	2150	1150	1070	1100
18	---	---	---	2400	1480	2050	2360	2230	2280	1120	1100	1110
19	---	---	---	2040	1390	1710	2410	2340	2370	1100	1090	1100
20	---	---	---	2250	2040	2110	2430	2360	2410	1090	1060	1080
21	---	---	---	2450	2250	2350	2430	2320	2380	1230	1090	1140
22	---	---	---	2610	2450	2520	2440	2310	2370	1280	1200	1230
23	---	---	---	2740	2610	2680	3330	2330	2490	1280	1210	1240
24	---	---	---	2790	2740	2760	3350	1570	1890	1260	1200	---
25	---	---	---	2820	2750	2790	2020	1490	1660	---	---	---
26	---	---	---	2890	1280	2040	2050	1830	1900	---	---	---
27	---	---	---	1840	1560	1700	1870	1780	1820	---	---	---
28	---	---	---	1830	655	1450	1840	1740	1790	---	---	---
29	---	---	---	1540	470	991	2060	1790	1990	---	---	---
30	---	---	---	665	560	598	2040	1890	1960	---	---	---
31	---	---	---	665	285	362	---	---	---	---	---	---
MONTH	---	---	---	4310	285	1860	3350	345	1730	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---						
2	---	---	---	---	---	---						
3	---	---	---	1740	1420	1580						
4	---	---	---	---	---	---						
5	---	---	---	---	---	---						
6	---	---	---	---	---	---						
7	---	---	---	---	---	---						
8	---	---	---	---	---	---						
9	1450	1370	1410	---	---	---						
10	1400	1370	---	---	---	---						
11	1410	1340	---	---	---	---						
12	1350	1320	1340	---	---	---						
13	1320	1250	1290	---	---	---						
14	1260	975	---	---	---	---						
15	1040	1010	---	---	---	---						
16	1140	1070	---	---	---	---						
17	1080	975	---	---	---	---						
18	1190	1130	---	---	---	---						
19	1190	1130	---	---	---	---						
20	1230	1160	---	---	---	---						
21	1370	1230	---	---	---	---						
22	1220	1190	---	---	---	---						
23	1200	1180	---	---	---	---						
24	1210	1160	---	---	---	---						
25	1160	1120	---	---	---	---						
26	1150	1070	---	---	---	---						
27	1300	1100	1210	---	---	---						
28	1200	1150	1180	---	---	---						
29	1160	1120	1150	---	---	---						
30	1120	910	882	---	---	---						
31	---	---	---	---	---	---						
MONTH	---	---	---	---	---	---						
YEAR	4510	195	1580									

11176180 ARROYO LAS POSITAS AT EL CHARRO ROAD, NEAR PLEASANTON, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	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
HAR 16...	1300	20	1410	8.3	11.0	320	4	62	39	170	54	4
JUN 13...	1330	4.9	1780	8.5	22.5	390	40	54	62	240	57	5

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	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, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
HAR 16...	3.6	110	200	.70	18	790	824	5.6	2700	24	14
JUN 13...	2.7	150	290	.60	18	1000	1050	6.2	3800	10	2

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	1350	1210	1250	2430	2190	2310
2				---	---	---	1660	1350	1530	2310	2190	2210
3				---	---	---	1800	1660	1750	2490	2310	2420
4				---	---	---	1830	1760	1800	2310	2180	2250
5				---	---	---	1990	1830	1900	2490	2280	2350
6				---	---	---	2150	1990	2110	2700	2240	2470
7				---	---	---	2100	2040	2070	2340	2220	2260
8				---	---	---	2210	2100	2160	2610	2260	2420
9				---	---	---	2470	2210	2350	2290	2210	2250
10				---	---	---	2390	2230	2290	2610	2290	2510
11				1690	963	1340	2430	2260	2330	2450	2120	2240
12				1710	1630	1670	2340	2180	2240	2300	2180	2240
13				1770	1670	1720	2420	2190	2300	2620	2210	2390
14				1770	1730	1760	2390	2020	2180	2210	2100	2140
15				1760	1700	1730	2280	2030	2150	2560	2190	2360
16				1880	1700	1770	2510	2280	2400	2210	904	1450
17				1890	1760	1790	2340	2210	2260	1980	1610	1800
18				1800	299	962	2300	2140	2220	2240	854	1820
19				1030	755	840	2300	2000	2130	1350	909	1190
20				1420	1030	1260	2350	1980	2110	1480	1350	1450
21				1520	1420	1490	1830	708	1300	1690	1480	1590
22				1560	884	1460	815	450	574	1610	350	875
23				1450	843	1210	806	516	658	675	375	508
24				1580	1420	1470	1130	806	992	430	255	323
25				2010	1580	1730	1460	1130	1310	865	430	655
26				2010	1670	1930	1610	1460	1570	1170	305	873
27				2160	2010	2100	1670	1610	1630	435	305	345
28				2170	1640	2030	1910	1670	1780	865	435	647
29				1640	960	1070	2290	1910	2100	535	395	442
30				1670	810	1110	2300	2100	2180	955	535	742
31				---	---	---	2280	2120	2170	1340	955	1160
MONTH				---	---	---	2510	450	1860	2700	255	1640

SPECIFIC CONDUCTANCE (MICRONHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1590	1340	1490	618	413	479	1540	1490	1520	1440	1170	1280
2	1870	1590	1740	661	476	568	1570	1530	1550	1620	1440	1520
3	1970	1870	1940	1120	661	920	1580	1560	1570	1720	1620	1670
4	2100	1970	2040	1150	942	1040	1580	1530	1560	1700	1630	1660
5	2110	1290	1890	1200	1080	1140	1570	1540	1560	1660	1630	1640
6	2160	615	1480	1300	1200	1250	1580	1490	1540	1700	1640	1670
7	615	390	419	1140	865	951	1570	1480	1520	1720	1660	1690
8	545	375	431	1320	1060	1200	1580	1500	1530	1720	1660	1680
9	950	525	730	1470	1320	1400	1580	1520	1540	1830	1580	1760
10	1410	935	1200	1490	764	1280	1590	1510	1550	1820	1680	1750
11	1660	1410	1540	1120	817	920	1590	1530	1560	1820	1670	1730
12	1660	1030	1430	1230	649	948	1610	1550	1580	1810	1500	1710
13	1060	823	890	687	442	512	1610	1520	1570	1800	1700	1740
14	1230	906	1070	1180	675	954	1630	1540	1590	1810	1720	1760
15	1480	1230	1360	1430	1180	1330	1630	1550	1590	1820	1740	1760
16	1660	1480	1580	1490	476	1290	1670	1610	1630	1820	1540	1750
17	1720	1660	1690	1140	713	949	1710	1650	1670	1840	1590	1740
18	1720	702	943	961	716	799	1710	1140	1520	1840	1700	1760
19	1140	735	917	1350	961	1170	1740	979	1610	1820	1730	1770
20	1500	1140	1340	1450	747	1280	1680	987	1400	1820	1710	1760
21	1710	1500	1620	1140	860	958	1750	1490	1680	1820	1720	1760
22	1820	1710	1770	1230	672	898	1800	1710	1750	1840	1720	1780
23	1860	602	1460	1140	755	939	1790	743	1480	1830	1730	1780
24	924	634	730	893	548	705	1570	1060	1320	2030	1700	1850
25	1020	397	688	1110	581	842	1590	1020	1290	1740	1700	1720
26	755	430	551	1350	1130	1260	1730	1590	1660	1750	1700	1730
27	1060	755	945	1340	1070	1180	1770	1470	1670	1750	1720	1740
28	1030	481	794	1370	1140	1260	1630	556	776	1830	1730	1780
29	---	---	---	1470	1370	1420	1130	684	901	1860	1760	1800
30	---	---	---	1490	1440	1470	1200	1030	1110	1820	1740	1780
31	---	---	---	1540	1490	1510	---	---	---	1820	1740	1790
MONTH	2160	375	1240	1540	413	1060	1800	556	1490	2030	1170	1720
	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1800	1730	1760	1700	1630	1670	1770	1710	1740	1820	1730	1770
2	1800	1710	1740	1700	1640	1670	1850	1730	1810	1860	1810	1830
3	1790	1690	1730	1700	1630	1660	1990	1600	1740	1860	1780	1810
4	1750	1700	1720	1660	1630	1640	2000	1740	1870	1830	1760	1790
5	1760	1660	1710	1700	1640	1670	1790	1550	1670	1960	1760	1810
6	1780	1740	1750	1720	1660	1690	1800	1700	1740	1820	1710	1780
7	1720	1640	1670	1720	1660	1680	1740	1650	1690	1780	1730	1750
8	1700	1640	1660	1690	1620	1660	1760	1660	1700	1780	1640	1710
9	1880	1700	1820	1690	1550	1610	1700	1550	1640	2000	1740	1910
10	2050	1750	1900	1650	1560	1600	1750	1670	1700	1880	1700	1800
11	1860	1660	1710	1670	1460	1550	1700	1650	1680	1860	1650	1750
12	1760	1640	1700	1550	1500	1520	1680	1570	1610	1810	1670	1760
13	1740	1680	1710	1560	1470	1510	1620	1560	1590	1810	1680	1770
14	2100	1670	1790	1640	1550	1580	1630	1540	1600	1820	1700	1760
15	2060	1680	1790	1670	1590	1630	1720	1600	1650	1790	1650	1730
16	1680	1580	1630	1670	1570	1630	1720	1610	1670	1840	1670	1760
17	1860	1680	1750	1710	1600	1650	1720	1630	1670	1830	1720	1780
18	1870	1750	1820	1720	1690	1700	1710	1640	1680	1840	1650	1730
19	1800	1620	1690	1710	1660	1680	1700	690	1470	1990	1790	1890
20	1770	1680	1720	1690	1620	1650	1800	745	1500	1940	1630	1760
21	1800	1700	1750	1710	1660	1690	1810	1740	1780	1790	1630	1720
22	1800	1660	1710	1700	1640	1670	1780	1660	1720	1800	1740	1760
23	1820	1740	1780	1720	1660	1690	1710	1660	1690	1770	1680	1730
24	1840	1740	1800	1710	1580	1640	1720	1620	1670	1900	1670	1780
25	1840	1660	1730	1760	1560	1670	1770	1630	1700	1910	1800	1840
26	1750	1660	1700	1810	1710	1770	1760	1710	1730	1790	1700	1750
27	1740	1700	1720	1800	1580	1690	1740	1690	1720	1800	1680	1720
28	1760	1660	1720	1920	1790	1850	1750	1660	1720	1800	1710	1760
29	1660	1590	1620	1820	1690	1760	1760	1650	1710	1780	1670	1740
30	1680	1640	1660	1800	1560	1680	1760	1690	1730	1680	435	1160
31	---	---	---	1800	1580	1710	1750	1700	1730	---	---	---
MONTH	2100	1500	1730	1920	1460	1660	2000	690	1690	2000	435	1750
YEAR	2700	255	1580									

ALAMEDA CREEK BASIN

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 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 319.51 ft 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.--Records good. No regulation. Waste water from Livermore sewage disposal plant and gravel operations enters stream about 4 mi upstream from gage.

AVERAGE DISCHARGE.--21 years, 19.4 ft³/s, 14,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,330 ft³/s Jan. 5, 1982, gage height, 13.97 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	0015	418	9.80	Feb. 25	2115	1,460	11.46
Nov. 18	1100	557	10.11	Mar. 1	0645	3,330	13.24
Nov. 30	1145	650	10.29	Mar. 7	0400	487	9.96
Dec. 22	1500	1,520	11.53	Mar. 13	0930	1,840	11.88
Jan. 24	0615	*3,980	13.73	Mar. 20	2300	735	10.44
Jan. 27	0230	3,300	13.22	Mar. 24	2000	1,260	11.21
Feb. 7	0545	1,130	11.11	Apr. 23	1615	392	9.73
Feb. 13	1145	367	9.66	Apr. 28	0730	1,440	11.44
Feb. 18	0830	656	10.30				

Minimum daily, 2.2 ft³/s July 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	5.8	134	13	108	1560	115	124	24	11	13	10
2	8.8	7.8	41	14	90	986	100	84	15	13	7.5	10
3	7.4	7.5	25	15	81	508	94	66	14	23	7.7	10
4	13	10	18	13	72	385	86	60	17	17	6.1	8.8
5	8.0	8.9	18	18	77	310	84	70	25	17	6.3	7.9
6	5.8	6.8	18	14	197	249	86	69	25	12	7.6	10
7	8.1	8.3	18	8.0	837	352	83	60	14	11	11	7.7
8	13	7.4	18	7.0	721	185	83	56	17	11	13	8.2
9	10	17	15	9.0	345	139	82	54	24	14	9.5	7.8
10	4.3	32	11	14	174	291	79	47	18	23	9.6	7.6
11	4.3	15	6.6	9.0	111	423	78	48	24	17	9.2	4.7
12	4.3	13	7.1	5.0	129	397	78	46	24	8.3	7.3	5.7
13	4.3	13	13	5.5	309	1100	74	45	22	9.9	3.8	4.5
14	6.6	16	18	10	129	403	69	42	16	9.8	14	4.4
15	6.6	14	16	13	79	281	69	41	12	8.4	9.9	5.7
16	8.8	14	11	25	65	278	63	40	13	2.8	4.4	7.3
17	12	15	13	20	58	447	67	35	13	12	8.6	7.1
18	6.9	214	18	54	412	483	78	34	12	7.4	9.0	12
19	6.1	77	8.0	83	177	267	81	32	12	2.3	20	15
20	4.3	31	9.2	36	89	236	109	29	20	2.8	13	7.5
21	6.0	22	127	22	78	412	72	26	14	2.2	11	5.6
22	5.8	29	725	1140	69	462	57	26	12	2.5	10	4.3
23	8.5	33	420	502	224	368	138	27	11	8.4	9.7	4.2
24	13	27	106	2160	384	759	112	27	11	21	9.6	4.4
25	69	29	59	367	572	521	109	20	11	16	9.0	4.4
26	78	27	43	613	676	302	61	17	14	9.6	9.5	4.5
27	8.7	30	27	1730	344	345	68	16	20	10	10	4.9
28	7.3	38	18	424	435	243	792	20	11	11	10	5.5
29	7.6	32	13	792	---	180	277	26	12	9.9	10	4.9
30	30	370	20	332	---	147	243	23	14	9.7	10	34
31	8.5	---	19	167	---	125	---	25	---	16	10	---
TOTAL	388.5	1170.5	2012.9	8634.5	7042	13144	3587	1335	491	349.0	299.3	238.6
MEAN	12.5	39.0	64.9	279	252	424	120	43.1	16.4	11.3	9.65	7.95
MAX	78	370	725	2160	837	1560	792	124	25	23	20	34
MIN	3.5	5.8	6.6	5.0	58	125	57	16	11	2.2	3.8	4.2
AC-FT	771	2320	3990	17130	13970	26070	7110	2650	974	692	594	473

CAL YR 1982	TOTAL	15268.2	MEAN	41.8	MAX	1740	MIN	.19	AC-FT	30280
WTR YR 1983	TOTAL	38692.3	MEAN	106	MAX	2160	MIN	2.2	AC-FT	76750

11176200 ARROYO MOCHO NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

CHEMICAL ANALYSIS: Water years 1981 to current year.

SPECIFIC CONDUCTANCE: Water years 1981 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1980 to current year.

INSTRUMENTATION.--Water-quality samples were furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum recorded, 3,910 micromhos Feb. 8, 1982; minimum recorded, 125 micromhos Nov. 2, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,240 micromhos Jan. 8; minimum recorded, 203 micromhos Nov. 18.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--

SPECIFIC CONDUCTANCE: Maximum recorded, 3,910 micromhos Feb. 8; minimum recorded, 125 micromhos Nov. 12.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	986	816	914	880	840	---	---	---	---	985	355	864
2	955	565	842	---	---	---	---	---	---	790	395	623
3	1210	485	806	---	---	---	940	895	927	890	615	832
4	1240	975	1130	---	---	---	940	915	926	615	185	301
5	990	910	950	---	---	---	930	865	913	381	211	269
6	1130	990	1100	---	---	---	935	865	914	651	381	504
7	1080	815	987	---	---	---	930	880	913	---	---	---
8	1060	870	976	---	---	---	925	845	889	---	---	---
9	980	815	863	---	---	---	930	825	868	---	---	---
10	1110	980	1060	---	---	---	945	885	921	---	---	---
11	1020	935	977	---	---	---	935	860	913	---	---	---
12	1030	905	948	935	125	---	1510	805	1030	---	---	---
13	1060	960	1010	925	165	509	1240	915	984	---	---	---
14	990	890	951	745	300	575	925	840	898	---	---	---
15	1010	870	951	810	745	790	905	830	870	---	---	---
16	980	870	933	820	730	809	935	845	889	---	---	---
17	975	905	945	815	330	640	935	860	906	---	---	---
18	950	875	926	885	770	823	1170	475	790	---	---	---
19	945	860	909	---	---	---	1920	245	1250	2620	950	1860
20	940	870	915	---	---	---	835	255	559	1900	430	1100
21	950	875	925	---	---	---	930	690	780	840	670	757
22	970	885	936	---	---	---	1030	910	954	885	840	865
23	995	905	954	---	---	---	1170	1030	1090	---	---	---
24	980	920	950	---	---	---	1280	1170	1230	---	---	---
25	965	925	957	---	---	---	1400	1270	1310	---	---	---
26	970	945	965	---	---	---	1540	1400	1470	---	---	---
27	985	340	894	---	---	---	1690	1540	1620	---	---	---
28	950	190	481	---	---	---	1810	1690	1750	---	---	---
29	750	295	490	---	---	---	1840	200	962	---	---	---
30	890	750	834	---	---	---	640	490	577	---	---	---
31	895	865	882	---	---	---	840	635	735	---	---	---
MONTH	1240	190	915	---	---	---	1920	200	994	---	---	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	449	289	373	---	---	---
2	---	---	---	---	---	---	568	443	514	---	---	---
3	---	---	---	995	860	966	---	---	---	---	---	---
4	1490	1290	1380	1010	955	988	---	---	---	---	---	---
5	1580	1040	1220	1300	970	1060	---	---	---	---	---	---
6	1250	1030	1160	1640	1050	1200	---	---	---	---	---	---
7	3090	1100	2190	1720	1060	1300	---	---	---	940	860	906
8	3910	1520	2190	1890	1070	1440	765	705	734	965	850	913
9	1540	1210	1400	1650	1030	1320	790	750	770	860	815	842
10	1420	1120	1310	1480	660	1270	810	765	791	860	830	842
11	1420	1150	1320	880	525	775	775	655	713	855	815	835
12	1380	1250	1310	705	455	544	780	745	765	850	805	825
13	1290	1190	1220	985	705	834	845	780	830	825	800	812
14	1200	850	1130	1190	985	1110	925	845	906	820	800	809
15	945	265	552	1440	965	1190	980	915	937	865	800	812
16	390	255	292	1340	915	1050	---	---	---	825	790	805
17	570	360	442	1100	865	956	---	---	---	830	780	804
18	645	535	578	950	830	881	---	---	---	810	775	793
19	670	---	---	855	720	785	---	---	---	817	757	790
20	---	---	---	905	790	837	---	---	---	814	744	778
21	---	---	---	1080	905	979	---	---	---	792	752	776
22	---	---	---	1240	845	1100	---	---	---	799	759	785
23	---	---	---	1080	845	982	---	---	---	821	741	785
24	---	---	---	1080	915	1010	---	---	---	818	693	762
25	---	---	---	1110	890	1020	---	---	---	750	695	728
26	---	---	---	1400	855	1060	---	---	---	757	702	735
27	---	---	---	1230	905	1050	---	---	---	760	690	736
28	---	---	---	975	700	857	---	---	---	772	702	743
29	---	---	---	905	395	690	---	---	---	769	719	745
30	---	---	---	540	470	503	---	---	---	821	726	774
31	---	---	---	495	230	296	---	---	---	1010	773	901
MONTH	---	---	---	1890	230	967	---	---	---	1010	690	801
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1010	851	933	867	817	842	845	815	833	838	765	805
2	873	803	837	985	860	902	870	815	838	840	815	826
3	840	810	826	1130	927	1010	872	797	845	855	795	824
4	852	797	825	1030	914	962	879	789	844	850	750	795
5	839	784	813	987	912	946	885	785	837	780	705	740
6	836	776	811	949	885	896	887	782	842	760	705	737
7	819	779	801	910	885	898	859	779	825	760	655	727
8	816											

11176200 ARROYO MOCHO NEAR PLEASANTON, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	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
MAR 16...	1500	260	820	8.3	11.0	270	28	46	38	70	36	2
JUN 13...	1600	23	1030	8.7	28.0	340	65	46	54	86	36	2

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	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, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MAR 16...	2.7	62	86	.30	16	470	456	3.0	1000	11	13
JUN 13...	2.2	75	120	.30	18	570	564	4.4	1100	<3	3

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	840	790	815	639	584	609	813	603	706	1300	1010	1170
2	845	750	802	648	613	629	933	813	891	1180	992	1070
3	820	750	781	647	612	636	963	923	940	1180	992	1040
4	840	790	782	651	601	632	1060	963	996	1360	1010	1190
5	815	770	794	650	610	636	1000	943	977	1060	1010	1020
6	845	800	823	660	610	638	988	973	984	1350	1000	1160
7	835	780	798	649	614	636	1080	953	1020	1210	1080	1130
8	845	740	799	633	613	627	1030	928	961	2240	1050	1520
9	815	740	776	627	537	607	1380	883	1040	1650	1000	1190
10	845	775	816	723	478	561	1090	968	1040	1010	981	996
11	845	775	816	963	683	827	1560	1030	1210	1510	1000	1250
12	850	790	820	853	738	823	1320	1080	1150	1360	1170	1230
13	845	800	821	1000	788	859	1100	973	1040	1870	1190	1460
14	845	765	803	823	778	798	1070	953	1010	1470	998	1150
15	845	790	818	803	778	791	1020	988	1010	1620	988	1100
16	815	760	783	918	763	808	1510	973	1180	1290	849	1020
17	810	745	779	848	793	821	1450	1390	1420	1140	1050	1080
18	800	770	786	843	203	529	1390	1320	1360	1290	616	1020
19	830	760	799	793	603	678	1350	1280	1310	862	757	825
20	830	780	810	883	793	851	1460	1210	1300	893	853	873
21	835	790	811	873	803	840	1400	548	1150	935	895	911
22	835	775	811	863	573	808	623	428	533	---	---	---
23	830	765	803	923	658	837	643	473	546	---	---	---
24	810	725	792	883	738	802	1220	644	741	---	---	---
25	735	285	385	838	778	804	874	794	839	---	---	---
26	494	329	408	803	768	786	909	874	893	---	---	---
27	583	493	531	863	768	803	1010	909	945	---	---	---
28	617	572	592	1090	493	772	1150	1020	1050	---	---	---
29	652	617	630	913	598	742	1180	995	1080	---	---	---
30	642	486	527	598	383	448	1120	1030	1070	---	---	---
31	605	545	566	---	---	---	1040	991	1010	---	---	---
MONTH	850	285	738	1090	203	721	1560	428	1010	---	---	---

11176200 ARROYO MOCHO NEAR PLEASANTON, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---				---	---	---	---	---	---
2	---	---	---				---	---	---	---	---	---
3	---	---	---				---	---	---	---	---	---
4	---	---	---				---	---	---	---	---	---
5	---	---	---				---	---	---	1070	776	993
6	---	---	---				1040	980	1000	1040	981	1020
7	---	---	---				1010	985	993	1020	1010	1020
8	---	---	---				990	965	979	1020	984	1010
9	---	---	---				985	960	971	1020	986	1010
10	---	---	---				975	960	966	1050	997	1020
11	---	---	---				970	955	963	1010	989	1000
12	879	714	800				965	950	960	1020	995	1000
13	749	629	665				990	955	974	1150	1000	1020
14	694	624	650				995	955	974	1070	1010	1040
15	739	669	699				995	950	974	1090	1020	1040
16	789	739	761				1040	955	986	1070	1020	1040
17	799	774	786				980	955	971	1070	1050	1060
18	799	394	624				1030	810	954	1080	1050	1070
19	674	609	637				1010	745	962	1120	1060	1080
20	749	674	712				1030	735	884	1160	1060	1080
21	784	749	767				---	---	---	1100	1060	1070
22	829	784	813				---	---	---	1100	1060	1080
23	879	454	757				---	---	---	1140	1040	1080
24	579	499	532				---	---	---	1150	1040	1100
25	594	294	469				---	---	---	1170	1040	1130
26	534	344	443				---	---	---	1190	1150	1170
27	614	534	571				---	---	---	1190	1160	1170
28	574	344	504				---	---	---	1210	1040	1130
29	---	---	---				---	---	---	1060	1010	1050
30	---	---	---				---	---	---	1200	1040	1090
31	---	---	---				---	---	---	1130	1040	1060
MONTH	---	---	---				---	---	---	1210	776	1060
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1190	1040	1070	1220	1020	1100	1130	853	979	978	893	929
2	1220	1180	1200	1250	928	1090	1080	880	917	984	904	935
3	1200	1180	1190	995	915	953	1170	887	1040	980	905	941
4	1200	1040	1160	1420	931	1040	1040	937	965	1160	916	972
5	1060	1030	1040	1110	963	1020	1060	862	948	1140	902	1000
6	1060	1040	1050	1170	959	1080	1240	813	918	1060	887	925
7	1150	1050	1140	1090	1000	1050	1080	814	910	888	848	870
8	1140	945	1050	1060	932	992	919	804	855	1010	864	941
9	1050	971	1000	1130	839	974	995	850	896	985	875	919
10	1320											

11176300 TASSAJARA CREEK NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'57", long 121°52'41" in Santa Rita Grant, Alameda County, Hydrologic Unit 18050004, at center pier on upstream side of bridge on old Santa Rita Road, 800 ft downstream from bridge on Interstate Highway 580 and 2.6 miles north of Pleasanton.

DRAINAGE AREA.--26.8 mi².

PERIOD OF RECORD.--October 1914 to May 1919 and October 1921 to September 1930, published as "Tassajero Creek near Pleasanton." October 1978 to September 1983 (discontinued). Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 345 ft from topographic map.

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

AVERAGE DISCHARGE.--18 years, 4.02 ft³/s, 2,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft³/s Jan. 5, 1982, gage height, 11.70 ft, from rating curve extended above 300 ft³/s on basis of slope-area measurement at gage height 4.55 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 75 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	0500	217	5.99	Feb. 23	2130	Unknown	7.89
Dec. 22	1545	633	7.70	Mar. 1	0545	Unknown	9.58
Jan. 24	Unknown	*1,150	9.20	Mar. 13	Unknown	Unknown	Unknown
Jan. 26	2130	Unknown	Unknown	Mar. 20	Unknown	Unknown	Unknown
Feb. 7	2330	Unknown	8.63	Mar. 25	Unknown	Unknown	Unknown
Feb. 13	0200	Unknown	6.72	Apr. 28	Unknown	Unknown	Unknown
Feb. 18	0745	Unknown	7.01				

Minimum, no flow for many days.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1715	187	5.83	Feb. 15	2215	1,040	8.92
Jan. 5	0100	*2,280	11.70	Mar. 31	1045	1,720	10.51
Jan. 20	1845	142	5.57	Apr. 11	0430	209	5.95

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES
(NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	5.2	3.4	10	110	6.1	1.9	.94		0
2		0	0	14	3.0	14	46	5.9	1.9	.89		0
3		0	0	4.5	3.0	11	86	5.8	1.8	.83		0
4		0	0	760	2.8	9.4	45	5.6	1.7	.78		0
5		0	0	623	2.3	8.0	28	5.5	1.7	.71		0
6		0	0	40	2.3	7.4	28	5.4	1.6	.62		0
7		0	0	20	2.3	6.9	17	5.2	1.6	.53		0
8		0	0	15	2.3	6.8	14	5.0	1.5	.40		0
9		0	0	12	2.1	6.3	12	4.7	1.5	.29		0
10		0	0	10	2.1	6.5	24	4.4	1.5	.22		0
11		0	0	9.0	2.0	9.4	83	4.2	1.4	.14		0
12		0	0	7.8	1.9	7.5	28	4.0	1.4	.09		0
13		0	0	6.9	2.3	6.0	20	3.8	1.3	.04		0
14		2.0	0	6.1	20	6.5	23	3.7	1.3	0		0
15		.70	0	5.5	317	6.3	18	3.6	1.3	0		0
16		.25	0	4.8	218	10	15	3.5	1.2	0		0
17		.10	0	4.4	42	9.3	14	3.4	1.2	0		0
18		.30	0	6.6	25	9.8	12	3.3	1.2	0		0
19		.10	0	11	17	6.3	11	3.1	1.1	0		0
20		0	34	43	14	5.0	10	3.0	1.1	0		0
21		0	8.3	35	12	5.0	9.5	2.9	1.1	0		0
22		.20	1.5	6.8	10	4.7	8.8	2.8	1.1	0		0
23		.10	.35	1.7	9.0	4.5	8.3	2.7	1.0	0		0
24		0	.12	.93	8.2	4.1	8.0	2.6	1.0	0		0
25		0	.04	.83	7.6	4.0	7.6	2.5	1.0	0		0
26		.10	0	1.0	7.1	5.8	7.3	2.4	.99	0		.04
27		.30	0	.32	6.6	7.2	7.0	2.3	.97	0		0
28		.20	.10	14	6.2	14	6.8	2.2	.96	0		0
29		.10	58	7.3	---	103	6.6	2.1	1.3	0		0
30		0	24	4.5	---	42	6.3	2.0	.98	0		0
31		---	7.3	3.6	---	561	---	2.0	---	0		---
TOTAL	0	4.45	133.71	1684.78	751.5	917.7	720.2	115.7	39.60	6.48	0	0.04
MEAN	0	.15	4.31	54.3	26.8	29.6	24.0	3.73	1.32	.21	0	.001
MAX	0	2.0	58	760	317	561	110	6.1	1.9	.94	0	.04
MIN	0	0	0	.32	1.9	4.0	6.3	2.0	.96	0	0	0
AC-FT	0	8.8	265	3340	1490	1820	1430	229	79	13	0	.08
CAL YR 1981	TOTAL	209.58	MEAN	0.57	MAX	58	MIN	0	AC-FT	415		
WTR YR 1982	TOTAL	4374.16	MEAN	12.0	MAX	760	MIN	0	AC-FT	8680		

ALAMEDA CREEK BASIN

11176300 TASSAJARA CREEK NEAR PLEASANTON, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	5.0	3.3	28	200	35	21	8.5	4.4	.98	1.4
2	0	0	3.3	3.2	22	125	33	16	9.1	4.6	.97	1.4
3	0	0	1.8	2.8	18	90	29	15	12	4.2	.96	1.6
4	0	0	1.8	2.7	15	96	27	20	12	3.8	.94	1.0
5	0	0	1.1	2.7	35	73	24	26	9.3	3.1	1.7	.49
6	0	0	1.2	2.7	90	54	25	15	5.9	3.3	3.1	.60
7	0	0	.75	2.5	230	73	23	12	4.8	5.8	3.7	.56
8	0	0	.36	2.3	180	53	22	11	4.9	5.3	2.1	.44
9	0	0	.29	2.2	103	35	22	11	5.3	4.4	1.9	.21
10	0	.18	.29	1.8	52	60	20	10	5.1	4.4	2.0	.39
11	0	.79	.18	1.9	58	52	19	9.9	4.8	3.4	1.9	.41
12	0	.15	.25	2.0	78	40	19	9.6	4.6	1.4	1.3	.45
13	0	0	.18	1.9	100	240	21	9.7	4.0	1.0	1.4	.66
14	0	0	.16	1.8	43	120	17	9.6	2.8	1.2	2.0	.66
15	0	0	.14	1.7	36	54	17	8.7	3.1	1.3	2.3	.68
16	0	0	.25	2.9	30	72	16	8.8	4.1	1.8	1.3	.66
17	0	0	.60	1.9	25	110	15	8.5	5.2	1.5	1.0	.64
18	0	13	.21	5.1	110	70	17	8.4	5.9	1.3	1.2	.64
19	0	8.7	.25	21	73	50	18	7.9	6.4	1.3	1.5	.66
20	0	1.6	.55	7.1	48	105	26	8.0	5.6	1.2	4.0	.62
21	0	.40	19	5.0	32	82	16	8.3	4.8	1.3	2.3	.62
22	0	.49	219	220	22	120	14	8.5	4.6	1.5	2.1	.62
23	0	.32	37	170	76	110	45	8.5	4.5	1.6	1.8	.72
24	0	.49	12	350	63	170	24	8.7	4.3	1.3	1.9	.69
25	0	.32	8.1	102	140	108	31	8.5	4.2	1.3	4.0	.72
26	2.2	.16	6.6	280	70	80	13	8.3	3.7	1.2	2.7	.90
27	.45	.11	5.9	230	94	90	14	8.2	4.3	1.2	.97	.74
28	0	.18	4.8	64	145	68	170	8.7	4.6	1.1	.59	.80
29	0	4.8	4.3	110	---	48	75	8.0	4.6	1.1	1.5	7.6
30	0	35	4.1	60	---	44	84	8.4	5.0	1.0	1.3	50
31	.16	---	3.6	35	---	40	---	8.5	---	1.0	.96	---
TOTAL	2.81	66.69	343.06	1699.5	2016	2732	931	338.7	168.0	72.3	56.37	77.58
MEAN	.091	2.22	11.1	54.8	72.0	88.1	31.0	10.9	5.60	2.33	1.82	2.59
MAX	2.2	35	219	350	230	240	170	26	12	5.8	4.0	50
MIN	0	0	.14	1.7	15	35	13	7.9	2.8	1.0	.59	.21
AC-FT	5.6	132	680	3370	4000	5420	1850	672	333	143	112	154
CAL YR 1982	TOTAL	4648.56	MEAN	12.7	MAX	760	MIN	0	AC-FT	9220		
WTR YR 1983	TOTAL	8504.01	MEAN	23.3	MAX	350	MIN	0	AC-FT	16870		

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 mi².

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. Altitude of gage is 750 ft, from topographic map. Prior to June 19, 1975, at site 1.4 mi upstream at different datum.

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

AVERAGE DISCHARGE.--20 years, 38.9 ft³/s, 28,180 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,030 ft³/s Jan. 5, 1982, gage height, 6.22 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s and maximum (*) based on rating curve extended above 975 ft³/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)
Nov. 30	0900	3,350	4.16	Feb. 25	2300	1,750	3.13
Dec. 22	2100	4,920	5.13	Mar. 1	0445	5,310	5.35
Jan. 24	0745	*6,660	6.04	Mar. 13	1245	2,190	3.43
Jan. 27	0245	4,580	4.93	Mar. 24	1730	777	2.34
Feb. 8	0345	2,510	3.64	Apr. 28	1545	707	2.27
Feb. 18	1815	500	2.04				

Minimum daily, 0.25 ft³/s Oct. 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	4.9	488	34	308	3700	193	240	25	13	4.6	2.6
2	.42	3.9	137	30	257	2330	179	179	25	13	4.3	2.4
3	.41	3.4	80	28	227	1150	163	146	25	12	4.5	2.0
4	.36	3.0	54	26	192	653	149	129	25	11	4.6	2.0
5	.38	2.7	41	25	176	528	138	122	25	11	4.6	2.0
6	.42	2.7	33	23	321	430	127	117	23	9.3	4.6	2.0
7	.44	2.7	27	21	1410	448	119	99	22	8.5	4.2	2.0
8	.42	3.0	23	21	1870	369	111	89	22	8.5	3.5	2.0
9	.37	3.4	20	19	832	319	102	83	21	8.5	3.1	2.0
10	.32	7.3	18	18	500	330	99	78	21	8.1	3.1	2.0
11	.30	8.1	16	17	365	395	94	74	19	7.0	3.1	2.0
12	.28	5.5	16	17	316	328	91	70	18	7.4	3.1	1.9
13	.30	4.5	15	17	354	1310	86	64	17	7.0	3.1	1.7
14	.25	3.9	15	15	294	761	81	61	17	6.5	3.1	1.7
15	.25	3.8	13	15	252	510	79	58	16	6.4	3.1	1.6
16	.28	3.6	13	20	225	416	75	55	16	6.2	3.1	1.5
17	.35	3.3	13	20	194	396	70	50	14	6.0	3.1	1.5
18	.37	155	12	39	360	334	71	49	13	6.4	3.1	1.5
19	.36	104	11	190	316	273	72	44	13	6.3	4.2	1.5
20	.44	34	12	104	246	238	84	44	14	6.3	5.9	1.4
21	.50	17	85	73	219	325	74	44	14	6.0	4.6	1.4
22	.54	12	1760	2010	201	350	64	41	13	5.6	4.2	1.6
23	.61	12	1380	1210	211	377	69	39	13	6.3	3.9	1.8
24	.65	11	355	3720	303	628	83	37	13	6.4	3.8	2.0
25	2.7	9.5	170	884	611	634	104	32	13	6.1	3.8	2.0
26	9.4	8.3	110	876	903	438	83	32	13	5.6	3.8	2.0
27	6.7	7.2	81	2650	762	384	85	32	13	5.4	3.4	2.5
28	3.8	8.4	64	847	1690	321	558	29	13	5.4	2.6	2.6
29	3.5	59	53	1260	---	264	470	29	12	5.4	2.6	2.6
30	8.5	1870	44	611	---	233	375	27	11	5.1	2.6	4.1
31	9.2	---	38	409	---	213	---	25	---	4.6	2.6	---
TOTAL	53.26	2377.1	5197	15249	13915	19385	4148	2218	519	230.3	113.9	59.9
MEAN	1.72	79.2	168	492	497	625	138	71.5	17.3	7.43	3.67	2.00
MAX	9.4	1870	1760	3720	1870	3700	558	240	25	13	5.9	4.1
MIN	.25	2.7	11	15	176	213	64	25	11	4.6	2.6	1.4
AC-FT	106	4710	10310	30250	27600	38450	8230	4400	1030	457	226	119
CAL YR 1982	TOTAL	37112.45	MEAN	102	MAX	2930	MIN	0	AC-FT	620		
WTR YR 1983	TOTAL	63465.46	MEAN	174	MAX	3720	MIN	.25	AC-FT	125900		

ALAMEDA CREEK BASIN

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 mi².

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 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.--Records good. 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 (1912-30, 1957-68), 29.6 ft³/s, 21,450 acre-ft/yr. 15 years (1969-83), 32.3 ft³/s, 23,401 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s Apr. 2, 1958, gage height, 10.91 ft; no flow at times. Maximum discharge since construction of Del Valle Dam in 1968, 2,160 ft³/s Feb. 20, 1980, gage height, 7.89 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a stage of 13.93 ft from floodmarks, discharge, 18,200 ft³/s, on basis of contracted-opening and slope area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,850 ft³/s Mar. 3, gage height, 8.89 ft; minimum daily, no flow June 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.7	4.4	5.1	1250	683	3.6	227	.89	.32	.13	.46
2	7.2	9.4	8.1	.92	457	1860	3.6	227	.93	.49	.10	.44
3	7.2	9.1	8.3	.80	453	2370	3.6	110	4.0	.60	.10	.42
4	7.4	9.1	5.7	2.7	233	2340	3.6	2.3	8.6	.38	.14	.43
5	7.4	9.1	.90	8.1	4.4	1950	3.6	2.0	8.2	.51	.19	.53
6	7.4	8.8	3.7	8.1	3.9	1390	3.5	1.8	7.0	.48	.21	.40
7	7.7	9.1	8.1	8.1	381	786	3.2	1.8	6.7	.24	.27	.62
8	7.4	8.9	8.0	8.1	612	610	3.2	1.6	6.5	.32	.43	.42
9	7.6	8.8	8.1	7.8	1780	606	3.3	1.6	6.3	.52	.65	.37
10	7.6	8.7	8.1	7.6	1460	237	3.3	1.5	5.8	.51	.56	.23
11	7.6	8.6	8.1	7.9	741	117	3.4	1.5	5.7	.33	.20	.25
12	7.6	9.0	8.1	8.1	531	243	3.4	1.7	5.6	.26	.24	.26
13	7.6	7.8	7.8	8.1	389	141	3.2	1.7	4.7	.39	.37	.28
14	8.0	6.7	4.5	8.1	387	614	3.2	1.7	3.3	.50	.43	.32
15	9.1	6.7	.77	8.1	167	900	3.2	1.8	4.3	.77	.38	2.9
16	9.1	6.7	.79	8.1	3.8	1090	3.0	1.9	4.0	.50	.30	5.8
17	9.0	6.7	1.3	8.1	8.5	564	2.8	1.9	3.8	1.2	.21	.52
18	8.9	8.4	1.2	8.7	108	297	2.8	2.1	3.5	.87	.23	.48
19	8.6	7.5	1.2	8.6	292	208	2.8	2.2	3.2	.18	.33	.32
20	8.6	7.3	1.3	8.3	292	208	2.7	1.6	3.0	.27	.30	.35
21	8.6	7.2	1.9	8.1	292	208	2.7	.88	3.0	.35	.33	.39
22	8.6	5.1	3.9	13	291	208	2.6	.84	2.8	.55	.41	.48
23	8.6	5.8	2.2	577	291	417	3.0	.84	1.7	.36	.24	.48
24	8.7	13	1.1	814	145	586	2.9	.88	.01	.35	.24	.42
25	9.1	13	.99	1890	6.8	472	2.9	.83	0	.39	.26	.23
26	5.3	13	.86	1660	318	371	2.7	.87	.01	.35	.23	.27
27	3.0	13	.86	890	566	371	2.7	.95	.04	.12	.22	.27
28	6.7	13	4.2	1950	572	249	123	1.0	.05	.15	.24	.23
29	6.8	7.3	8.6	1930	---	129	218	1.1	.09	.17	.29	.31
30	6.9	3.0	8.7	1900	---	4.9	227	1.0	.16	.13	.37	.37
31	6.7	---	8.8	1860	---	4.0	---	.93	---	.17	.39	---
TOTAL	237.2	257.5	140.57	13631.52	12035.4	20233.9	652.5	604.82	103.88	12.73	8.99	19.25
MEAN	7.65	8.58	4.53	440	430	653	21.8	19.5	3.46	.41	.29	.64
MAX	9.1	13	8.8	1950	1780	2370	227	227	8.6	1.2	.65	5.8
MIN	3.0	3.0	.77	.80	3.8	4.0	2.6	.83	0	.12	.10	.23
AC-FT	470	511	279	27040	23870	40130	1290	1200	206	25	18	38
CAL YR 1982	TOTAL	20150.58	MEAN	55.2	MAX	1870	MIN	.73	AC-FT	39970		
WTR YR 1983	TOTAL	47938.26	MEAN	131	MAX	2370	MIN	0	AC-FT	95090		

11176600 ARROYO VALLE AT PLEASANTON, CA

LOCATION.--Lat 37°40'02", long 121°53'02", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.6 mi northwest of Pleasanton City Hall, and 320 ft downstream from Hopyard Road bridge.

DRAINAGE AREA.--171 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Concrete control since Sept. 2, 1970. Datum of gage is 311.80 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.. Flow regulated by Del Valle Reservoir 10 mi upstream 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 ft³/s, 20,050 acre-ft/yr; 15 years (1969-83), 28.7 ft³/s, 20,793 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft³/s Apr. 3, 1958, gage height, 25.36 ft; no flow at times in most years. Maximum discharge since construction of Del Valle Dam in 1968, 2,590 ft³/s Mar. 3, 1983, gage height, 13.86 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,590 ft³/s Mar. 3, gage height, 13.86 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	1.2	12	5.0	1510	694	37	279	6.4	6.4	1.3	0
2	.31	.85	7.7	4.3	533	1850	32	269	6.3	6.7	2.0	0
3	.20	.84	7.2	4.0	500	2090	29	229	6.7	7.7	.84	0
4	.11	1.0	5.1	4.8	407	2360	27	47	7.3	8.0	.22	0
5	.10	1.4	4.5	4.5	79	1980	26	28	5.8	5.2	0	0
6	.14	1.7	3.5	4.4	65	1670	25	21	7.2	.81	0	0
7	.18	1.9	3.0	4.6	278	1050	21	19	7.4	.02	0	0
8	.18	2.1	3.4	4.8	594	743	21	21	7.0	0	0	0
9	.09	3.4	5.1	3.4	1720	727	25	18	6.7	0	0	0
10	0	5.7	4.8	3.3	1620	518	27	13	5.7	0	0	0
11	0	4.0	3.9	5.4	859	114	23	12	7.6	0	0	0
12	0	3.4	3.5	5.8	709	303	18	13	7.8	0	0	0
13	.72	2.9	3.4	6.1	457	388	16	13	6.7	0	0	0
14	.56	2.8	4.0	6.3	434	620	15	15	7.1	0	0	0
15	.41	2.4	3.9	5.7	333	950	14	16	6.8	0	0	0
16	.43	2.0	2.5	5.2	65	1280	16	15	7.4	0	0	0
17	.76	1.7	2.3	4.2	42	900	16	18	6.9	.46	0	0
18	.97	39	1.3	13	87	475	16	11	11	3.1	0	0
19	.85	12	.59	7.1	307	286	17	11	13	3.5	0	0
20	.98	8.3	.77	6.5	321	287	43	10	12	4.3	0	0
21	.98	5.7	25	6.1	323	289	17	10	8.6	5.7	0	0
22	.84	6.7	66	91	319	294	15	9.8	9.2	4.7	0	0
23	1.0	4.8	58	279	339	422	31	11	9.2	2.9	0	0
24	1.1	3.5	29	851	298	762	28	10	8.0	2.4	0	0
25	10	3.2	18	1670	124	662	28	9.8	8.5	2.0	0	0
26	9.2	4.3	13	1800	273	464	20	8.9	12	.74	0	0
27	5.8	5.1	8.8	872	661	464	20	7.4	7.8	.16	0	0
28	3.2	10	6.0	1830	702	361	151	7.9	6.3	0	0	0
29	1.6	9.4	5.2	1880	---	241	262	9.4	6.6	.03	0	0
30	3.8	29	4.2	1830	---	76	287	9.4	6.7	.46	0	3.7
31	1.5	---	5.4	1790	---	49	---	7.2	---	.05	0	---
TOTAL	46.41	180.29	321.06	13007.5	13959	23369	1323	1178.8	235.7	65.33	4.36	3.7
MEAN	1.50	6.01	10.4	420	499	754	44.1	38.0	7.86	2.11	.14	.12
MAX	10	39	66	1880	1720	2360	287	279	13	8.0	2.0	3.7
MIN	0	.84	.59	3.3	42	49	14	7.2	5.7	0	0	0
AC-FT	92	358	637	25800	27690	46350	2620	2340	468	130	8.6	7.3
CAL YR 1982	TOTAL	20953.80	MEAN	57.4	MAX	1830	MIN	0	AC-FT	39360		
WTR YR 1983	TOTAL	53694.15	MEAN	147	MAX	2360	MIN	0	AC-FT	106500		

ALAMEDA CREEK BASIN

11176600 ARROYO VALLE AT PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

CHEMICAL ANALYSES: Water years 1975, 1978 to September 1983 (discontinued).

SPECIFIC CONDUCTANCE: Water years 1975 to current year.

WATER TEMPERATURES: Water years 1975-1978.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1974 to current year.

WATER TEMPERATURES: December 1974 to September 1978.

INSTRUMENTATION.--Water-quality monitor since December 1974.

COOPERATION.--Chemical-quality samples and specific conductance field data were furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2080 micromhos May 17, 1983; minimum recorded, 82 micromhos Mar. 2, 1976.

EXTREMES FOR CURRENT YEAR: Maximum recorded, 2,080 micromhos May 17; minimum recorded, 100 micromhos Apr. 21.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--

SPECIFIC CONDUCTANCE: Maximum recorded, 628 micromhos Dec. 11, 14; minimum recorded, 102 micromhos Nov. 13.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	528	514	522	579	548	558	456	192	402
2	556	532	541	526	522	---	572	544	564	456	198	360
3	554	532	548	---	---	---	588	566	574	488	258	452
4	554	538	547	---	---	---	578	554	569	258	116	174
5	560	534	545	---	---	---	572	548	560	441	175	385
6	568	534	543	---	---	---	562	544	551	371	291	322
7	560	528	539	---	---	---	588	548	564	377	287	292
8	548	536	539	---	---	---	602	586	595	302	284	289
9	560	534	542	---	---	---	608	592	598	308	286	292
10	538	534	536	---	---	---	620	596	605	309	283	289
11	542	536	539	---	---	---	628	602	613	336	284	310
12	570	534	541	---	---	---	620	580	604	338	304	316
13	562	534	539	190	102	---	610	596	603	364	334	346
14	542	534	537	460	186	371	628	602	614	380	352	366
15	542	530	535	479	460	474	626	610	619	406	366	390
16	542	530	534	507	411	484	618	598	608	438	400	425
17	540	530	533	432	268	342	616	592	605	422	366	382
18	538	528	531	512	432	478	606	548	576	378	360	366
19	542	528	532	517	467	486	590	266	558	468	364	421
20	540	526	530	499	453	487	548	228	434	454	282	377
21	544	522	531	494	408	472	558	508	542	460	342	409
22	534	520	525	514	472	500	568	544	551	466	414	440
23	540	518	527	533	514	525	564	546	550	496	420	468
24	528	516	520	539	471	524	558	544	550	476	390	428
25	530	518	522	542	524	533	568	550	555	392	372	385
26	532	520	525	530	508	521	558	548	554	456	362	398
27	548	360	527	541	507	531	558	530	544	504	456	479
28	404	180	287	557	541	546	548	516	528	466	286	348
29	492	212	377	560	550	553	534	156	372	492	340	426
30	518	492	510	566	556	559	494	450	477	514	492	502
31	526	516	519	---	---	---	464	422	451	534	456	498
MONTH	570	180	520	---	---	---	628	156	556	534	116	379

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	472	392	432	486	330	424	---	---	---	---	---	---
2	444	392	422	534	336	455	---	---	---	---	---	---
3	488	442	463	574	524	547	---	---	---	---	---	---
4	500	480	487	554	510	528	---	---	---	---	---	---
5	512	468	487	568	524	543	---	---	---	---	---	---
6	532	490	515	588	560	574	---	---	---	---	---	---
7	518	446	474	562	490	512	---	---	---	468	460	463
8	454	428	442	506	478	495	410	352	382	468	460	464
9	546	430	508	576	500	559	426	380	404	470	460	466
10	538	510	520	570	468	546	432	226	375	474	462	467
11	528	504	514	526	354	471	384	230	333	478	460	469
12	542	512	526	570	526	551	---	---	---	478	468	472
13	530	492	511	550	516	537	---	---	---	474	466	470
14	508	210	415	532	466	502	---	---	---	474	462	469
15	290	126	198	524	500	512	---	---	---	478	458	468
16	432	180	388	552	370	463	---	---	---	478	462	470
17	412	398	408	578	550	561	---	---	---	474	466	472
18	409	399	404	---	---	---	---	---	---	482	464	473
19	417	407	412	---	---	---	---	---	---	480	464	473
20	430	413	424	---	---	---	---	---	---	480	466	473
21	442	424	436	---	---	---	---	---	---	478	466	472
22	484	434	449	---	---	---	---	---	---	480	464	472
23	504	454	473	---	---	---	---	---	---	484	470	476
24	520	484	507	---	---	---	---	---	---	486	464	---
25	530	474	514	---	---	---	---	---	---	---	---	---
26	546	494	526	---	---	---	---	---	---	---	---	---
27	558	504	541	---	---	---	---	---	---	---	---	---
28	518	478	488	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	496	494	---
30	---	---	---	---	---	---	---	---	---	502	488	496
31	---	---	---	---	---	---	---	---	---	502	492	496
MONTH	558	126	460	---	---	---	---	---	---	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	504	498	501	522	510	514	508	492	---	340	332	335
2	510	496	502	522	506	513	---	---	---	332	324	327
3	502	492	499	518	506	511	512	508	---	324	316	320
4	500	492	497	518	500	507	516	508	512	332	314	320
5	500	492	497	516	496	505	518	506	510	328	316	321
6	500	492	496	514	496	505	514	502	508	326	318	320
7	504	490	497	512	496	502	508	496	501	332	318	323
8	502	492	496	510	490	500	496	472	483	334	322	327
9	508	494	499	514	494	502	472	450	462	336	326	33

11176600 ARROYO VALLE AT PLEASANTON, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO
JUN 14...	1100	7.3	620	7.9	22.5	220	43	37	30	40	28	1
DATE		POTASSIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
JUN 14...		2.2	48	62	20	9.0	330	326	25	360	6	5

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

[illegible]

SPECIFIC CONDUCTANCE (MICRONHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	316	286	306	524	420	447	426	410	420
2	---	---	---	304	282	289	452	436	446	424	412	416
3	---	---	---	302	274	280	454	448	452	424	404	410
4	---	---	---	288	272	278	458	444	451	420	408	410
5	---	---	---	288	280	283	510	442	472	470	400	426
6	---	---	---	328	286	294	626	460	495	539	470	500
7	---	---	---	310	294	300	558	466	495	573	497	532
8	---	---	---	364	300	316	560	496	528	594	538	564
9	---	---	---	304	298	302	554	520	536	615	575	588
10	---	---	---	302	266	294	558	550	555	590	550	565
11	---	---	---	340	302	323	560	538	554	601	565	582
12	---	---	---	348	320	338	552	534	543	617	569	589
13	---	---	---	336	234	310	552	500	541	2060	580	673
14	---	---	---	328	314	320	560	400	540	1750	591	738
15	---	---	---	338	306	314	574	538	550	696	638	647
16	---	---	---	308	292	302	556	534	545	1600	638	697
17	458	392	397	314	296	307	802	546	587	2080	605	787
18	386	196	326	328	308	318	592	574	580	1110	606	667
19	370	340	349	402	328	344	580	520	564	809	607	648
20	390	328	341	352	304	344	594	428	542	954	612	663
21	330	324	327	358	346	353	564	100	418	688	628	649
22	338	316	323	358	322	349	620	366	541	671	613	643
23	326	290	313	360	332	351	578	554	567	700	630	655
24	328	308	315	342	320	332	572	210	439	661	623	643
25	340	184	291	348	330	339	692	312	475	668	622	640
26	358	306	334	372	348	364	568	462	547	666	602	622
27	334	318	323	388	366	374	580	550	563	659	595	616
28	320	308	317	388	370	375	574	330	527	618	596	607
29	---	---	---	452	376	394	510	194	413	637	615	627
30	---	---	---	486	392	417	468	410	442	655	635	642
31	---	---	---	490	408	427	---	---	---	660	646	654
MONTH	---	---	---	490	234	330	802	100	512	2080	400	597
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	665	629	646	640	528	634	670	630	639			
2	645	627	635	649	615	636	674	630	645			
3	659	621	634	702	616	646	676	624	642			
4	680	594	633	706	640	664	642	628	633			
5	684	578	618	667	633	646	644	626	---			
6	628	558	582	---	---	---	---	---	---			
7	588	538	559	---	---	---	---					

ALAMEDA CREEK BASIN

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA

LOCATION.--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.

DRAINAGE AREA.--405 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1912 to September 1930, October 1969 to September 1983 (discontinued). Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 251.40 ft National Geodetic Vertical Datum of 1929. January 1912 to September 1917, at site 3.0 mi upstream at different datum. October 1917 to September 1930, at site 0.8 mi downstream at different datum.

REMARKS.--Records fair. Flow partly regulated by Del Valle Reservoir 15 mi upstream, capacity, 77,100 acre-ft. Water imported from Sacramento San Joaquin Delta (see REMARKS for station 11176500). Water from South Bay Aqueduct at times imported through Vallecitos Creek 1.5 mi downstream.

AVERAGE DISCHARGE.--17 years (water years 1913-19, 1921-30), 42.5 ft³/s, 30,790 acre-ft/yr; 14 years (water years 1970-83), 77.6 ft³/s, 56,220 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s Jan. 5, 1982, gage height, 19.61 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,500 ft³/s Jan. 24, gage height, 19.04 ft; minimum daily, 7.4 ft³/s Oct. 11.

EXTREMES FOR WATER YEAR 1982 (NOT PREVIOUSLY PUBLISHED).--Maximum discharge, 11,400 ft³/s Jan. 5, gage height 19.61 ft; minimum daily, 1.9 ft³/s Nov. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES
(NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	4.2	47	61	27	164	1850	45	22	18	10	33
2	36	3.3	46	172	30	338	2090	41	34	15	10	31
3	49	2.8	46	37	29	152	2250	48	34	14	10	29
4	38	2.6	46	3040	26	106	1750	55	35	17	14	29
5	37	2.8	45	5270	24	88	914	45	34	18	22	30
6	36	2.7	43	1060	24	74	528	37	32	17	24	30
7	46	3.0	43	822	20	66	319	50	36	13	31	31
8	41	2.5	47	758	24	65	154	51	31	14	29	30
9	37	2.5	52	447	30	74	120	56	30	8.2	29	32
10	33	2.7	47	412	30	92	218	52	30	10	36	25
11	31	1.9	45	318	25	171	820	45	32	19	34	34
12	30	55	50	71	25	207	1180	44	34	14	29	30
13	31	581	46	51	36	80	992	46	34	9.6	35	33
14	30	283	44	43	134	70	664	51	35	11	31	32
15	30	59	49	40	1800	60	515	45	30	13	34	26
16	29	45	47	35	2490	129	174	50	35	9.5	36	21
17	31	118	44	28	748	127	119	44	34	10	35	11
18	33	38	47	27	597	138	102	47	33	12	29	18
19	32	17	56	51	559	102	86	42	33	11	32	9.2
20	30	28	586	211	345	76	78	39	30	11	37	8.1
21	30	67	118	203	302	63	71	38	32	9.5	32	7.9
22	30	95	41	63	146	60	66	40	32	9.5	30	6.5
23	28	63	27	45	92	70	63	36	18	12	30	6.7
24	16	83	24	33	81	63	60	34	15	9.4	27	49
25	8.8	44	22	33	73	60	63	28	15	7.3	27	61
26	3.9	73	21	54	70	119	58	29	12	10	27	48
27	3.5	78	29	35	71	76	57	29	13	7.7	27	20
28	202	71	21	102	64	155	52	26	12	7.5	27	18
29	139	49	878	50	---	830	48	27	27	7.4	32	9.6
30	17	47	337	37	---	569	42	13	21	8.1	33	9.4
31	7.9	---	61	28	---	5010	---	15	---	10	34	---
TOTAL	1180.1	1925.0	3055	13637	7922	9454	15503	1248	845	362.7	873	758.4
MEAN	38.1	64.2	98.5	440	283	305	517	40.3	28.2	11.7	28.2	25.3
MAX	202	581	878	5270	2490	5010	2250	56	36	19	37	61
MIN	3.5	1.9	21	27	20	60	42	13	12	7.3	10	6.5
AC-FT	2340	3820	6060	27050	15710	18750	30750	2480	1680	719	1730	1500

CAL YR 1981 TOTAL 15618.8 MEAN 42.8 MAX 878 MIN 1.9 AC-FT 30970
WTR YR 1982 TOTAL 56763.2 MEAN 156 MAX 5270 MIN 1.9 AC-FT 112600

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	12	219	39	1600	3590	221	470	59	35	28	20
2	8.1	13	93	32	561	3850	204	400	50	35	19	20
3	12	11	60	36	531	2870	196	330	47	41	20	20
4	10	14	37	34	458	3120	190	152	45	44	18	18
5	14	15	33	38	241	2390	182	190	50	36	20	17
6	8.3	11	30	35	549	2040	177	150	53	28	19	20
7	10	14	29	28	2680	1530	173	120	46	25	22	18
8	11	20	27	26	2040	1050	170	113	44	25	23	17
9	16	40	24	24	2020	1040	167	100	49	24	21	17
10	8.4	86	24	28	1770	1120	166	93	45	34	21	15
11	7.4	28	16	29	864	823	160	90	49	31	22	10
12	7.6	20	16	24	954	1110	157	89	50	23	20	14
13	7.9	19	22	24	904	2790	152	88	49	20	14	11
14	8.0	20	28	26	548	1280	145	87	44	22	22	12
15	8.4	20	31	30	436	1400	141	85	38	22	18	12
16	11	19	22	54	178	1770	137	83	39	16	16	13
17	11	21	34	37	137	1750	137	79	37	22	19	14
18	12	808	28	153	928	1200	154	76	39	25	28	15
19	10	190	19	175	480	700	162	74	42	17	36	23
20	8.8	79	26	79	394	810	210	70	45	18	24	15
21	9.3	57	597	62	367	940	166	67	44	19	22	15
22	9.7	89	2130	2110	349	1100	141	65	37	19	24	12
23	10	86	696	943	625	1100	332	66	35	20	24	12
24	13	57	172	4560	879	2160	238	68	35	31	23	13
25	124	57	108	1920	1460	1440	246	58	35	34	22	13
26	243	53	86	3200	1120	960	160	56	36	23	20	12
27	33	57	68	3760	1110	1030	172	53	44	22	21	14
28	18	109	47	2350	1730	730	1700	51	34	23	21	13
29	16	133	42	3090	---	540	1200	60	34	22	21	12
30	92	611	42	2090	---	325	1000	58	37	21	21	124
31	20	---	43	1850	---	260	---	59	---	26	20	---
TOTAL	785.9	2769	4849	26886	25913	46818	8756	3600	1291	803	669	561
MEAN	25.4	92.3	156	867	925	1510	292	116	43.0	25.9	21.6	18.7
MAX	243	808	2130	4560	2680	3850	1700	470	59	44	36	124
MIN	7.4	11	16	24	137	260	137	51	34	16	14	10
AC-FT	1560	5490	9620	53330	51400	92860	17370	7140	2560	1590	1330	1110
CAL YR 1982	TOTAL	59007.0	MEAN	162	MAX	5270	MIN	6.5	AC-FT	117000		
WTR YR 1983	TOTAL	123700.9	MEAN	339	MAX	4560	MIN	7.4	AC-FT	245400		

ALAMEDA CREEK BASIN

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

CHEMICAL ANALYSES: Water years 1979 to current year.

SPECIFIC CONDUCTANCE: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since August 1979.

COOPERATION.--Chemical-quality samples and specific conductance field data were furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,450 micromhos May 12, 1981; minimum recorded, 127 micromhos Dec. 20, 1981.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,560 micromhos Aug. 19; minimum recorded, 158 micromhos Nov. 18.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,530 micromhos Nov. 7; minimum recorded, 108 micromhos Feb 15.

SPECIFIC CONDUCTANCE (MICRONHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	607	576	589	1210	1090	1160	758	710	740	323	289	314
2	611	537	593	1290	1210	1260	755	708	735	313	297	304
3	749	593	682	1420	1200	1330	849	750	803	325	313	318
4	703	622	644	1490	1420	1460	787	770	784	---	---	---
5	641	614	622	1470	1460	1470	776	770	773	---	---	---
6	649	593	630	1500	1300	1470	776	770	773	---	---	---
7	777	607	645	1530	1380	1480	773	765	770	---	---	---
8	658	628	633	---	---	---	846	773	788	---	---	---
9	652	638	645	---	---	---	822	745	793	---	---	---
10	679	627	664	---	---	---	858	776	801	---	---	---
11	679	661	666	---	---	---	792	776	790	---	---	---
12	698	670	674	---	---	---	914	684	784	---	---	---
13	711	698	705	---	---	---	875	748	827	---	---	---
14	707	681	688	630	173	449	812	790	803	---	---	---
15	697	656	692	814	630	750	837	770	804	---	---	---
16	714	695	709	959	814	898	843	753	784	---	---	---
17	781	710	748	795	375	427	787	760	775	---	---	---
18	769	758	763	959	635	852	846	642	755	---	---	---
19	769	762	766	1140	959	1070	748	636	696	---	---	---
20	768	716	731	1280	705	977	477	127	211	---	---	---
21	742	724	737	881	221	668	339	281	314	---	---	---
22	751	742	747	603	463	551	374	339	356	---	---	---
23	777	737	758	695	573	650	396	374	385	---	---	---
24	860	777	821	720	461	594	416	396	405	---	---	---
25	952	832	911	760	720	742	447	416	430	---	---	---
26	1110	952	1050	792	472	651	473	447	459	---	---	---
27	1200	1110	1160	658	584	622	503	473	489	---	---	---
28	1190	566	836	663	581	613	509	503	507	---	---	---
29	738	422	566	743	663	710	512	147	432	---	---	---
30	926	738	850	758	740	746	290	251	273	---	---	---
31	1090	926	1030	---	---	---	310	290	301	---	---	---
MONTH	1200	422	740	1530	173	900	914	127	624	---	---	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---						
2	---	---	---	---	---	---						
3	---	---	---	---	---	---						
4	---	---	---	---	---	---						
5	---	---	---	---	---	---						
6	---	---	---	1080	971	1030						
7	---	---	---	1230	1050	1100						
8	---	---	---	1270	1050	1130						
9	---	---	---	1250	1030	1090						
10	1250	1050	1100	1290	497	1150						
11	1200	1090	1140	947	497	737						
12	1140	1100	1110	915	435	581						
13	1120	876	1050	931	672	836						
14	1020	222	797	1000	931	964						
15	358	108	213	1080	947	1040						
16	448	186	323	1080	541	786						
17	550	503	534	842	659	779						
18	609	603	608	836	704	770						
19	621	606	611	812	761	801						
20	653	627	646	902	818	871						
21	668	654	664	979	902	954						
22	---	---	---	1000	979	993						
23	---	---	---	979	939	951						
24	---	---	---	979	939	959						
25	---	---	---	979	971	976						
26	---	---	---	1090	605	875						
27	---	---	---	1140	931	965						
28	---	---	---	963	480	675						
29	---	---	---	654	145	386						
30	---	---	---	357	300	323						
31	---	---	---	---	---	---						
MONTH	---	---	---	1290	145	869						
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1110	1090	1110	1120	1110	1120	562	558	559
2	---	---	---	1090	1070	1090	1140	1020	1100	558	555	557
3	---	---	---	1070	1070	1070	1150	1110	1130	555	529	542
4	---	---	---	1080	1070	1080	1230	942	1090	542	520	527
5	---	---	---	1080	1050	1070	942	831	862	540	514	527
6	---	---	---	1050	1030	1040	831	796	807	565	515	524
7	---	---	---	1110	935	1020	826	809	817	566	524	535
8	---	---	---	1010	840	918	818	801	808	535	520	525
9	---	---	---	1220	863	1030	804	790	797	558	515	535
10	---	---	---	1330	1120	1240	790	780	784	609	499	546
11	1030	949	967	1120	878	995	780	738	762	550	423	470
12	984	939	953	1080	902	985	758	745	750	552	520	538
13	959	925	941	1260	1080	1170	745	738	739	585	543	561
14	972	918	939	1240	1040	1150	738	711	721	583	530	548
15	972	939	948	1150	1070	1120	711	706	709	562	520	535
16	952	915	933	1190	1090	1150	714	709	710	834	562	726
17	939	915	928	1170	1110	1160	714	706	709	875	834	849
18	939	925	932	1110	1060	1090	706	684	692	952	875	909
19	952	935	944	1070	1050	1070	684	682	684	1010	952	986
20	969	945	954	1140	1070	1090	682	648	660	1040	1010	1030
21	976	969	969	1130	1070	1100	652	648	649	1040	1040	1040
22	976	962	970	1130	1100	1120	652	650	651	1050	1040	1050
23	1050	965	1010	1120	1040	1080	650	631	641	1080	1050	1070
24	1080	1050	1070	1130	1090	1120	635	623	631	1080	699	839
25	1130	1080	1110	1190	1120	1150	623	610	614	812	699	750
26	1130	1130	1130	1230	1110	1160	614	602	606	758	738	744
27	1140	1130	1140	1170	1110	1130	602	592	599	887	740	805
28	1140	1140	1140	1260	1170	1230	595	570	585	939	887	926
29	1140	1110	1130	1290	1260	1280	575	562	567	976	939	955
30	1110	1110	1110	1280	1230	1260	568	552	562	1070	976	1020
31	---	---	---	1230	1120	1180	566	560	562	---	---	---
MONTH	---	---	---	1330	840	1110	1230	552	746	1080	423	724
YEAR	1530	108	819									

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	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
APR 15...	1045	145	1050	8.0	11.5	350	59	64	47	91	36
JUN 14...	1400	43	1080	8.1	22.0	350	56	58	49	98	38

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	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, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
APR 15...	2	2.4	97	100	.40	13	590	589	940	34	75
JUN 14...	2	2.1	110	120	.30	17	630	639	1000	8	56

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1110	1070	1090	942	815	891	604	537	569			
2	1150	1110	1130	1010	942	984	695	604	650			
3	1150	1110	1140	1020	1010	1010	798	695	751			
4	1110	1020	1080	1030	949	1010	911	798	856			
5	1100	972	1020	965	945	958	1010	911	959			
6	1050	988	1010	995	965	984	1030	1010	1020			
7	1120	1030	1080	1030	995	1010	1050	1030	1040			
8	1070	1030	1040	1010	965	988	1050	1050	1050			
9	1070	878	960	965	507	855	1060	1050	1050			
10	992	884	944	600	499	548	1060	1050	1050			
11	1090	992	1050	801	600	727	1090	1060	1080			
12	1130	1090	1100	935	801	882	1140	1090	1120			
13	1150	1120	1130	922	881	892	1080	1140	1170			
14	1230	1150	1170	959	884	915	---	---	---			
15	1230	1090	1140	908	893	900	---	---	---			
16	1110	1050	1090	955	899	927	---	---	---			
17	1070	1020	1050	992	932	961	---	---	---			
18	1060	1010	1020	971	158	501	---	---	---			
19	1090	1010	1040	591	407	508	---	---	---			
20	1090	1050	1070	762	591	681	---	---	---			
21	1060	1050	1060	840	762	817	---	---	---			
22	1060	1030	1050	863	588	797	---	---	---			
23	1090	1040	1060	784	606	666	---	---	---			
24	1100	988	1060	867	784	847	---	---	---			
25	988	403	686	870	832	847	---	---	---			
26	557	224	403	885	864	873	---	---	---			
27	837	557	705	870	838	847	---	---	---			
28	928	837	886	887	852	827	---	---	---			
29	999	928	967	735	475	618	---	---	---			
30	999	492	636	733	417	500	---	---	---			
31	815	555	688	---	---	---	---	---	---			
MONTH	1230	224	986	1030	158	826	---	---	---			

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	1050	968	1000	1100	1070	1090
2				---	---	---	1160	1050	1120	1080	1070	1080
3				---	---	---	1140	1090	1110	1090	1080	1090
4				---	---	---	1190	1140	1170	1100	1080	1090
5				---	---	---	1250	1170	1200	1160	1090	1120
6				---	---	---	1250	1190	1230	1160	1110	1120
7				---	---	---	1270	1180	1210	1130	1110	1120
8				---	---	---	1190	1080	1140	1120	1110	1110
9				---	---	---	1160	1110	1140	1120	1100	1110
10				---	---	---	1160	1130	1150	1120	1100	1110
11				---	---	---	1160	1100	1140	1120	1090	1110
12				---	---	---	1140	1090	1110	1170	1120	1140
13				---	---	---	1190	1140	1160	1190	1150	1170
14				---	---	---	1260	1090	1200	1200	1170	1180
15				---	---	---	1090	1010	1050	1180	1130	1150
16				---	---	---	1180	1020	1090	1180	1140	1160
17				---	---	---	1220	1140	1180	1140	1110	1130
18				---	---	---	1140	1070	1090	1140	1100	1110
19				---	---	100000	1560	1050	1250	1110	1040	1070
20				1160	1120	1140	1310	912	1050	1120	1020	1060
21				1180	1080	1130	1250	1140	1180	1140	1120	1130
22				1100	1080	1090	1180	1130	1150	1190	1110	1150
23				1240	1100	1150	1170	1090	1140	1190	1130	1160
24				1150	964	1030	1140	1110	1120	1160	1130	1140
25				1010	953	972	1110	1090	1100	1160	1120	1140
26				1060	1010	1050	1140	1100	1120	1160	1140	1150
27				1080	1050	1060	1130	1090	1100	1280	1150	1210
28				1100	1050	1080	1110	1080	1090	1280	1130	1220
29				1190	1080	1110	1100	1080	1090	1310	1280	1290
30				1090	1060	1080	1100	1070	1090	1290	364	755
31				1080	1050	1060	1100	1070	1080	---	---	---
MONTH				---	---	---	1560	912	1130	1310	364	1120
YEAR	1560	158	1680									

ALAMEDA CREEK BASIN

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 mi².

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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,400 micromhos Nov. 22, 1977; minimum recorded, 98 micromhos Apr. 28, 1983.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 993 micromhos Dec. 19; minimum recorded, 98 micromhos Apr. 28.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,150 micromhos Dec. 28; minimum recorded, 100 micromhos Mar. 31.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	520	488	501	663	473	597	948	898	920	924	248	756
2	498	484	491	687	621	657	948	900	929	626	360	490
3	530	486	498	688	660	670	932	878	898	740	502	680
4	554	478	495	708	674	692	888	856	873	578	150	326
5	494	474	483	704	686	697	886	818	859	374	160	271
6	522	484	495	714	694	706	886	666	807	514	374	448
7	534	494	517	724	702	715	874	686	818	612	514	562
8	574	510	551	722	696	710	900	802	874	648	612	630
9	591	569	577	714	692	703	900	860	882	676	638	656
10	611	591	602	706	686	699	890	862	877	700	668	686
11	613	587	601	712	686	702	886	864	877	728	694	712
12	610	594	600	718	340	535	884	786	854	740	646	718
13	616	592	603	622	244	500	864	644	772	686	644	666
14	620	578	600	670	582	608	870	688	820	698	670	683
15	637	609	623	790	670	730	880	748	856	750	686	709
16	649	621	634	812	590	761	902	874	886	822	742	781
17	636	612	624	910	382	697	898	872	881	848	790	820
18	634	614	622	920	800	854	886	698	842	874	830	848
19	634	618	624	818	782	801	860	562	713	876	812	849
20	635	621	626	880	814	843	896	400	698	856	444	743
21	639	621	630	834	654	782	956	816	896	456	386	412
22	653	627	640	902	506	727	1030	886	956	580	456	509
23	640	620	630	860	694	810	1050	958	996	654	580	615
24	640	614	627	922	514	719	1000	940	964	708	652	678
25	632	616	623	1020	920	963	1000	722	890	744	708	725
26	633	621	630	988	716	872	988	716	877	776	666	727
27	637	595	631	894	776	828	1140	548	868	746	704	729
28	626	214	481	1020	824	936	1150	1020	1070	772	548	647
29	636	270	486	996	790	913	1030	184	566	606	536	557
30	614	574	594	1010	934	969	678	384	545	654	606	627
31	647	541	618	---	---	---	780	628	741	714	650	678
MONTH	653	214	579	1020	244	747	1150	184	849	924	150	643

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	762	720	746	732	382	644	306	208	276	750	706	726
2	782	728	758	684	322	513	418	290	353	730	700	717
3	796	740	774	560	418	492	460	416	444	738	716	726
4	824	784	800	634	560	607	458	318	370	742	720	733
5	828	804	813	694	634	671	486	382	448	784	738	756
6	846	796	820	730	676	703	532	486	514	774	734	748
7	846	792	822	734	712	722	570	516	542	784	738	755
8	894	834	857	764	724	747	602	570	583	762	746	752
9	884	824	846	762	716	743	616	586	600	762	336	597
10	882	842	859	766	480	720	634	356	554	724	300	446
11	864	810	836	750	540	646	412	274	296	754	724	739
12	878	832	855	736	666	684	428	298	380	778	754	761
13	880	684	803	724	688	704	514	428	479	786	774	779
14	878	458	749	810	660	724	558	482	527	784	746	767
15	544	112	250	760	730	741	574	542	556	770	748	760
16	346	112	227	766	542	656	602	574	590	784	760	770
17	466	346	407	618	348	563	636	596	613	790	774	781
18	526	466	498	614	394	527	636	606	621	790	770	781
19	600	526	560	552	478	505	652	628	641	808	778	792
20	626	586	600	630	552	584	666	640	651	814	794	801
21	662	624	636	654	624	639	694	628	657	832	734	809
22	682	652	663	706	648	672	680	652	663	796	682	768
23	720	674	690	726	672	694	694	658	673	814	792	799
24	744	678	700	740	674	700	698	652	675	810	794	804
25	740	688	711	736	690	709	720	674	692	840	808	819
26	756	692	716	722	638	683	722	488	660	826	802	815
27	756	702	731	746	674	708	732	702	719	820	808	813
28	750	706	721	714	422	621	724	690	708	832	800	814
29	---	---	---	636	202	411	736	692	715	828	818	824
30	---	---	---	424	298	367	742	700	721	824	810	818
31	---	---	---	394	100	176	---	---	---	828	814	819
MONTH	894	112	695	810	100	622	742	208	564	840	300	761
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	816	804	811	616	486	561	296	284	292	766	250	368
2	816	804	810	698	536	644	296	284	292	262	246	256
3	816	800	808	746	576	687	300	290	295	274	260	267
4	810	790	803	718	516	602	294	280	289	274	250	264
5	822	792	809	672	524	614	294	272	285	280	258	273
6	816	800	812	670	634	651	286	268	277	286	270	279
7	850	786	818	704	646	675	280	264	274	292	270	284
8	886	822	837	748	704	727	288	270	279	298	276	290
9	826	804	815	764	748	754	288	272	282	296	282	291
10	814	794	806	774	758	767	288	274	283	296	280	291
11	804	772	794	798	772	788	288	272	280	308	280	294
12	802	790	798	796	784	791	286	264	274	312	288	301
13	800	772	792	790	760	775	362	286	327	332	282	305
14	802	780	793	770	746	759	402	358	382	376	332	356
15	802	794	798	760	744	754	442	400	427	432	376	410
16	806	794	800	954	350	460	466	442	456	464	380	433
17	806	788	797	352	338	344	480	466	472	466	354	409
18	802	792	797	348	336	343	488	478	483	482	296	395
19	800	782	792	348	334	342	498	488	492	482	280	335
20	798	792	795	348	334	342	510	498	503	470	276	347
21	796	766	779	344	330	338	518	504	512	446	348	420
22	792	780	784	338	320	328	528	512	521	650	316	398
23	798	786	792	338	320	330	534	520	527	320	306	313
24	798	792	795	334	322	329	542	528	535	326	290	304
25	800	792	795	332	320	326	546	534	541	350	286	325
26	800	790	796	326	308	317	552	542	547	338	288	306
27	806	796	800	318	304	312	558	548	553	324	252	283
28	806	800	803	314	296	306	568	554	561	304	228	257
29	818	788	806	304	292	299	576	562	570	442	268	351
30	792	512	629	304	292	300	584	566	576	472	446	466
31	---	---	---	302	290	297	586	568	579	---	---	---
MONTH	886	512	795	954	290	512	586	264	418	766	228	329
YEAR	1150	100	626									

ALAMEDA CREEK BASIN

11177200 VALLECITOS CREEK AT SUNOL, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	494	472	481	622	610	616	---	---	---	847	829	840
2	514	494	504	626	612	618	---	---	---	885	847	865
3	534	508	518	630	620	626	---	---	---	881	859	870
4	538	526	529	644	622	633	---	---	---	889	859	874
5	550	530	539	652	640	647	---	---	---	929	897	916
6	542	528	533	656	642	649	---	---	---	913	845	877
7	560	500	536	656	648	653	---	---	---	889	855	870
8	560	538	547	656	640	648	---	---	---	887	849	874
9	558	542	550	650	576	635	---	---	---	891	851	871
10	568	542	554	684	490	566	---	---	---	891	841	866
11	550	458	540	688	596	627	---	---	---	901	869	885
12	552	534	544	604	588	595	---	---	---	883	857	871
13	568	542	553	628	604	614	---	---	---	871	857	863
14	580	296	467	634	624	627	---	---	---	881	849	864
15	296	284	291	648	634	639	---	---	---	885	817	855
16	338	294	305	658	648	653	---	---	---	883	777	825
17	394	338	370	662	656	659	959	897	937	881	845	858
18	436	394	418	656	230	458	977	929	964	863	441	766
19	466	436	452	538	470	501	993	961	980	747	617	689
20	492	466	478	606	544	578	975	877	948	773	743	750
21	514	492	507	644	606	624	935	295	684	813	773	803
22	530	514	521	694	644	671	441	215	303	801	167	404
23	542	530	535	708	600	635	481	339	405	433	163	366
24	550	254	520	824	708	779	601	481	546	---	---	---
25	608	224	421	826	808	816	679	597	640	---	---	---
26	490	364	459	812	800	805	731	679	701	---	---	---
27	534	436	508	820	810	813	759	721	734	---	---	---
28	554	534	542	826	486	772	783	757	768	---	---	---
29	568	450	553	888	434	706	815	783	804	---	---	---
30	572	406	484	662	352	439	825	805	815	---	---	---
31	616	572	603	---	---	---	857	823	847	---	---	---
MONTH	616	224	496	888	230	643	---	---	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	228	106	176	558	532	546	428	342	390
2	---	---	---	250	148	188	578	542	558	496	428	465
3	---	---	---	356	250	313	586	546	570	530	490	510
4	---	---	---	396	356	379	596	552	578	560	528	540
5	---	---	---	444	396	421	598	560	581	558	348	523
6	---	---	---	452	388	439	594	562	583	614	526	559
7	---	---	---	400	326	366	610	572	591	626	598	609
8	---	---	---	470	400	444	620	578	599	628	614	624
9	---	---	---	504	472	493	618	588	603	640	610	627
10	---	---	---	518	272	444	622	584	604	650	608	631
11	---	---	---	406	280	343	630	604	618	656	610	635
12	---	---	---	444	330	387	640	612	624	660	608	634
13	---	---	---	330	122	222	632	604	621	652	610	633
14	---	---	---	386	292	341	632	602	619	664	614	640
15	---	---	---	446	386	417	642	614	628	670	628	650
16	534	498	510	466	292	409	644	618	631	670	634	655
17	546	516	532	360	162	280	648	616	632	682	634	660
18	546	236	312	326	188	267	658	602	636	678	642	661
19	474	332	397	406	326	373	658	590	631	684	638	664
20	504	452	482	448	254	396	640	372	558	684	636	663
21	592	504	526	370	260	309	572	492	540	690	644	670
22	558	532	543	396	340	365	598	572	583	696	648	673
23	568	240	475	406	314	370	610	264	492	692	650	674
24	372	240	304	328	154	250	420	300	385	696	652	676
25	390	158	287	356	212	292	430	304	361	678	650	668
26	334	194	268	424	356	398	522	436	476	680	652	668
27	514	334	380	440	420	432	568	466	534	678	652	667
28	470	132	292	480	438	463	432	98	213	682	658	672
29	---	---	---	516	480	493	316	232	283	682	660	671
30	---	---	---	536	506	514	336	262	295	682	660	672
31	---	---	---	550	522	531	---	---	---	688	670	680
MONTH	---	---	---	550	106	371	658	98	539	696	342	625

11177200 VALLECITOS CREEK AT SUNOL, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	698	676	687	688	636	661	---	---	---	630	618	624
2	700	680	691	682	624	654	---	---	---	665	333	574
3	700	676	689	682	618	650	---	---	---	333	287	302
4	690	668	681	680	630	655	---	---	---	295	279	290
5	696	672	682	690	650	668	244	224	235	317	277	291
6	712	678	689	696	660	677	238	216	228	292	278	286
7	726	370	474	700	654	673	239	221	230	296	276	287
8	496	398	448	700	656	676	243	229	237	286	272	281
9	556	496	534	696	640	663	245	231	240	284	266	276
10	594	556	578	708	634	668	251	237	245	276	258	270
11	614	592	604	696	650	674	258	240	251	273	253	266
12	632	612	623	712	672	690	258	244	252	343	249	283
13	646	628	638	716	672	694	260	248	254	347	329	341
14	658	644	651	718	694	706	320	260	277	349	327	341
15	672	654	663	---	---	---	383	320	352	352	334	345
16	678	656	667	---	---	---	429	383	412	350	334	345
17	682	660	672	---	---	---	471	429	450	354	336	348
18	692	656	674	---	---	---	495	471	481	358	342	352
19	690	652	672	---	---	---	517	491	501	359	337	351
20	688	650	671	---	---	---	524	508	516	355	333	346
21	692	646	669	---	---	---	530	516	523	351	333	344
22	698	648	671	---	---	---	536	520	530	349	335	344
23	694	652	673	---	---	---	552	534	545	351	335	344
24	698	640	670	---	---	---	565	550	561	352	336	347
25	686	632	661	---	---	---	579	565	574	352	340	348
26	686	638	662	---	---	---	591	573	584	362	344	350
27	690	646	667	---	---	---	599	575	588	366	358	363
28	694	650	676	---	---	---	601	591	597	373	365	368
29	694	626	665	---	---	---	608	592	600	373	365	369
30	694	624	660	---	---	---	618	602	611	389	363	378
31	---	---	---	---	---	---	624	612	619	---	---	---
MONTH	726	370	645	---	---	---	624	216	426	665	249	345

ALAMEDA CREEK BASIN

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, and 1.2 mi northeast of Niles.

DRAINAGE AREA.--633 mi².

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 Sunol Glen" 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 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.--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 ft³/s, 89,050 acre-ft/yr; 21 years (water years 1963-83), 128 ft³/s, 92,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft³/s Dec. 23, 1955, gage height, 14.9 ft; minimum (water years 1892-1962), no flow at times; minimum daily (water years 1963-83), 1.4 ft³/s Dec. 7, 8, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,500 ft³/s Jan. 27, gage height, 12.86 ft; minimum daily, 13 ft³/s Oct. 13, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	21	510	86	2560	7780	646	1860	98	49	44	21
2	17	19	198	74	1270	7600	549	1330	93	52	38	22
3	24	19	132	75	1080	5500	497	854	86	55	36	32
4	22	20	96	70	947	4970	467	559	82	56	35	33
5	26	21	80	69	584	3630	463	520	86	47	35	28
6	21	20	70	68	861	3060	475	480	87	42	41	30
7	20	18	63	128	4070	2490	460	366	85	39	39	27
8	20	22	60	221	5960	1790	434	314	79	40	40	29
9	25	28	55	71	4340	1520	425	275	77	39	36	31
10	22	81	51	62	3260	1400	421	243	75	43	36	33
11	17	40	44	60	1940	1470	414	223	76	43	38	33
12	15	32	42	54	1740	1450	391	223	77	35	37	30
13	13	29	43	51	1760	5340	307	226	74	29	33	28
14	14	29	46	50	1430	2960	273	204	67	28	29	29
15	28	30	49	56	1120	2500	259	182	61	27	30	29
16	29	29	42	75	746	2900	249	172	61	32	22	29
17	20	29	44	61	618	3160	238	165	60	31	20	32
18	18	795	44	146	1510	2500	256	152	61	34	23	32
19	20	367	39	353	1290	1600	265	141	63	25	29	37
20	17	111	37	135	1130	1270	415	134	66	23	40	32
21	14	72	577	97	1100	1790	277	133	71	23	29	30
22	14	73	3270	2860	1010	1810	206	135	58	30	26	29
23	13	96	1740	1730	1090	1640	406	122	56	33	25	29
24	15	67	517	6300	1750	3240	414	121	53	39	24	31
25	71	61	294	2790	2170	2830	500	112	53	47	23	31
26	242	53	204	3820	2690	1990	265	106	53	38	22	30
27	45	53	160	6220	2470	1860	324	98	59	40	24	31
28	27	71	121	3390	3500	1520	3030	99	53	38	24	34
29	24	241	110	5050	---	1190	2340	107	50	37	23	30
30	71	1190	97	3950	---	940	2290	100	51	44	22	124
31	33	---	93	3210	---	784	---	100	---	41	22	---
TOTAL	976	3737	8928	41382	53996	84484	17956	9856	2071	1179	945	996
MEAN	31.5	125	288	1335	1928	2725	599	318	69.0	38.0	30.5	33.2
MAX	242	1190	3270	6300	5960	7780	3030	1860	98	56	44	124
MIN	13	18	37	50	584	784	206	98	50	23	20	21
AC-FT	1940	7410	17710	82080	107100	167600	35620	19550	4110	2340	1870	1980
CAL YR 1982	TOTAL	105242	MEAN	289	MAX	7580	MIN	13	AC-FT	208700		
WTR YR 1983	TOTAL	226506	MEAN	621	MAX	7780	MIN	13	AC-FT	449300		

ALAMEDA CREEK BASIN

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11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

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.

REMARKS.--Unpublished records of daily specific conductance are included in extremes and are available in files of district office. 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 micromhos Nov. 19, 1977; minimum recorded, 122 micromhos Jan. 22, 1983.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,200 micromhos Aug. 20; minimum recorded, 122 micromhos Jan. 22.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,300 micromhos Feb. 9; minimum recorded, 152 micromhos Feb. 16.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	552	518	535	714	643	677	652	636	643	---	---	---
2	518	499	535	781	714	755	663	649	656	---	---	---
3	526	506	516	825	781	806	678	652	661	---	---	---
4	548	524	537	870	825	849	697	677	689	---	---	---
5	565	547	556	887	869	880	703	683	692	---	---	---
6	577	563	569	910	886	897	700	688	694	---	---	---
7	638	575	608	921	907	917	696	690	693	---	---	---
8	673	583	609	966	912	940	707	687	697	---	---	---
9	593	585	590	977	966	974	733	701	713	---	---	---
10	602	593	597	998	976	985	745	689	717	---	---	---
11	623	600	612	1010	997	1000	730	704	718	---	---	---
12	615	603	609	1240	544	981	728	706	717	---	---	---
13	630	608	614	544	167	389	771	675	712	---	---	---
14	639	617	627	554	166	374	779	733	755	---	---	---
15	619	599	607	751	554	663	749	719	730	---	---	---
16	618	604	611	834	751	803	758	718	738	---	---	---
17	622	604	614	827	473	606	744	700	714	---	---	---
18	663	611	639	630	514	555	737	693	722	---	---	---
19	648	638	643	777	630	714	747	613	670	---	---	---
20	648	634	643	827	773	790	660	244	362	---	---	---
21	634	601	612	956	690	798	546	412	502	---	---	---
22	618	608	614	705	485	547	666	546	612	616	522	572
23	622	612	617	608	540	584	723	666	699	648	616	632
24	623	615	621	617	507	556	751	723	739	642	558	595
25	664	622	644	666	572	616	762	751	759	600	502	551
26	686	664	677	661	617	652	768	762	765	696	482	571
27	703	686	700	617	530	564	766	704	730	764	568	694
28	722	350	490	617	589	599	763	723	736	802	392	603
29	494	378	415	624	590	605	733	171	618	706	616	652
30	537	439	484	643	623	632	480	218	381	764	672	720
31	643	537	595	---	---	---	606	480	555	786	732	751
MONTH	722	350	592	1240	166	724	779	171	671	---	---	---

FEBRUARY

MARCH

APRIL

MAY

[illegible]

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	676	666	670	744	650	694	---	---	---	620	608	615
2	694	676	689	---	---	---	---	---	517	618	606	613
3	763	694	722	---	---	---	606	562	585	650	618	641
4	785	743	771	---	---	---	664	592	625	652	634	643
5	805	723	752	937	907	855	720	664	691	680	636	648
6	824	758	797	907	883	822	734	720	728	682	668	674
7	788	728	750	---	---	835	774	662	753	668	424	623
8	816	788	806	---	---	---	786	764	773	494	348	391
9	874	808	843	---	---	---	784	772	778	594	502	547
10	887	787	840	---	---	---	816	746	771	692	600	653
11	787	731	747	---	---	---	834	760	791	662	642	656
12	753	733	741	---	---	---	804	772	792	642	628	633
13	773	753	765	---	---	---	870	794	826	688	638	673
14	815	773	791	---	---	---	874	816	851	672	664	667
15	921	641	784	---	---	---	826	798	807	732	666	705
16	668	634	653	---	---	---	834	796	812	788	646	683
17	792	642	686	---	---	---	858	792	807	712	642	679
18	838	792	829	---	---	---	936	804	864	688	438	641
19	862	814	837	---	---	---	812	782	794	470	402	431
20	830	798	814	---	---	---	808	744	781	514	470	492
21	820	798	812	---	---	---	908	188	658	550	514	532
22	843	819	830	---	---	---	290	142	218	560	122	369
23	849	823	835	---	---	---	286	196	236	336	218	276
24	857	827	845	---	---	---	382	286	339	276	144	204
25	895	579	788	---	---	---	444	382	415	---	---	279
26	613	453	504	---	---	---	500	444	475	---	---	261
27	708	566	642	---	---	---	536	500	521	---	---	208
28	788	708	759	---	---	---	552	528	538	---	---	271
29	814	788	803	---	---	---	582	552	574	---	---	244
30	888	614	757	---	---	---	606	566	579	---	---	266
31	650	626	642	---	---	---	622	604	613	---	---	282
MONTH	921	453	758	---	---	---	936	142	650	---	---	500
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	302	245	211	203	659	631	567	364	336	325
2	---	---	356	268	236	221	679	657	589	442	364	364
3	---	---	401	300	268	251	691	677	607	482	442	416
4	---	---	457	329	285	263	693	689	616	558	482	467
5	---	---	501	340	326	282	709	691	622	592	558	506
6	---	---	524	369	340	297	709	701	632	---	---	---
7	---	---	282	408	369	328	706	682	679	---	---	---
8	---	---	255	429	408	356	710	688	701	---	---	---
9	---	---	299	460	429	373	710	704	706	---	---	---
10	---	---	338	485	460	398	706	696	702	---	---	---
11	---	---	382	497	471	408	704	688	694	---	---	---
12	---	---	417	499	479	420	828	688	723	---	---	---
13	---	---	427	479	255	264	870	828	855	---	---	---
14	---	---	445	389	339	293	872	850	861	---	---	---
15	---	---	425	407	389	322	868	850	860	---	---	---
16	495	445	451	403	389	319	868	840	857	---	---	---
17	525	495	486	405	371	315	876	864	871	---	---	---
18	531	323	391	433	329	337	894	828	865	---	---	---
19	399	385	368	505	427	388	894	798	881	---	---	---
20	407	399	379	533	505	446	852	434	713	---	---	---
21	412	407	385	505	479	412	846	522	726	---	---	---
22	417	411	391	503	477	416	878	846	865	---	---	---
23	429	403	395	483	473	403	886	420	751	---	---	---
24	403	325	344	467	345	338	754	486	650	---	---	---
25	421	221	326	425	359	320	698	514	598	---	---	---
26	327	253	275	465	425	371	792	698	758	---	---	---
27	339	291	298	497	465	410	808	588	726	---	---	---
28	317	245	271	523	489	425	588	258	336	---	---	---
29	---	---	---	553	523	462	320	304	305	---	---	---
30	---	---	---	603	551	505	336	318	305	---	---	---
31	---	---	---	633	603	544	---	---	---	---	---	---
MONTH	---	---	378	633	211	358	894	258	687	---	---	---

ALAMEDA CREEK BASIN

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	879	792	750	775	950	942	946
2				894	866	874	778	726	754	957	947	951
3				906	872	885	788	732	761	975	865	942
4				884	866	872	768	742	756	865	814	829
5				880	854	863	763	735	752	825	811	815
6				884	864	873	747	713	727	835	799	813
7				890	874	883	750	722	737	836	814	822
8				910	870	890	792	728	756	822	788	807
9				912	884	896	797	727	759	803	745	778
10				940	888	910	759	733	746	773	747	763
11				932	884	896	754	736	747	780	748	761
12				888	856	870	773	739	758	773	701	745
13				900	878	888	751	733	743	787	701	758
14				944	900	922	733	708	718	780	752	768
15				936	914	925	918	732	858	786	768	778
16				932	816	886	905	853	880	791	763	778
17				874	814	827	853	826	839	808	780	797
18				940	874	919	918	850	895	806	780	790
19				936	884	909	925	903	913	851	801	823
20				900	882	888	1200	925	1060	867	797	837
21				916	896	905	942	884	914	797	762	778
22				948	798	884	986	938	966	818	784	808
23				798	748	772	969	949	956	811	771	789
24				806	758	785	970	930	956	820	786	799
25				828	778	798	942	922	930	800	790	795
26				806	750	774	941	927	937	817	795	808
27				760	738	748	957	927	943	815	779	802
28				774	754	763	962	946	955	834	788	816
29				782	762	770	953	947	950	807	783	794
30				778	728	748	949	943	947	1000	625	819
31				762	740	745	952	942	947	---	---	---
MONTH				948	728	853	1200	708	850	1000	625	810

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 mi².

PERIOD OF RECORD.--October 1916 to September 1919 (published as "near Decoto"), April 1959 to current year.

REVISED RECORDS.-- WSP 2129: 1962(M), 1965(P), 1968(P). WDR CA-76-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.12 ft National Geodetic Vertical Datum of 1929. Prior to Apr. 1, 1959, at site 1.4 mi downstream at different datum.

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

AVERAGE DISCHARGE.--27 years, 2.64 ft³/s 1,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,330 ft³/s Jan. 26, 1983, gage height, 5.14 ft; from rating curve extended above 600 ft³/s on basis of slope-area measurement of maximum flow; maximum gage height, 5.27 ft Oct. 13, 1962 from high water marks past gage; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 90 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 22	1345	197	2.94	Mar. 7	0100	99	2.59
Jan. 24	0015	1,200	4.95	Mar. 10	1800	130	2.71
Jan. 26	1900	*1,330	5.14	Mar. 13	0645	928	4.53
Feb. 7	2200	246	3.08	Mar. 17	1645	160	2.82
Feb. 25	1515	335	3.32	Mar. 20	2215	175	2.87
Mar. 2	1030	460	3.61				

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	15	2.5	18	107	19	22	3.0	1.4	.43	.12
2	0	0	7.9	2.4	15	175	18	14	2.9	1.5	.41	.11
3	0	0	5.3	2.2	13	76	16	12	2.9	1.4	.39	.11
4	0	0	3.9	2.1	11	53	14	10	2.8	1.2	.37	.10
5	0	0	3.3	2.0	12	48	13	12	2.7	1.1	.34	.09
6	0	0	2.8	1.8	49	38	12	13	2.6	.99	.29	.09
7	0	0	2.1	1.8	163	45	11	9.4	2.4	.97	.24	.10
8	0	0	1.7	1.7	138	31	11	8.2	2.4	.95	.22	.11
9	0	.06	1.6	1.7	53	27	10	7.3	2.5	1.1	.23	.10
10	0	.01	1.4	1.5	32	45	9.7	6.9	2.4	2.1	.24	.10
11	0	0	1.2	1.4	23	32	9.1	6.5	5.0	.71	.22	.11
12	0	0	1.2	1.4	31	50	8.7	6.3	9.8	.69	.19	.12
13	0	0	1.2	1.3	33	238	8.2	5.8	8.2	.68	.18	.26
14	0	0	1.1	1.2	27	62	7.9	5.3	2.0	.56	.19	.14
15	0	0	1.0	1.3	23	41	7.5	4.9	2.0	.55	.19	.07
16	0	0	.89	1.6	20	46	7.2	4.7	2.0	.56	.15	.03
17	0	0	.93	1.4	17	82	7.1	4.4	1.9	.58	1.4	.03
18	0	23	.92	8.2	28	65	7.1	4.1	1.9	.60	2.6	.03
19	0	6.1	.89	6.9	17	41	7.0	4.0	1.8	.59	2.3	.03
20	0	2.3	.98	3.3	15	54	8.4	3.7	1.8	.57	.70	.01
21	0	1.4	32	2.8	14	50	8.1	3.5	2.2	.53	.18	0
22	0	2.0	82	102	13	55	6.5	3.5	1.7	.52	.83	0
23	0	3.1	27	57	21	46	11	3.4	1.7	.53	1.8	.01
24	.03	1.8	12	176	19	68	10	3.4	1.6	.55	.81	0
25	1.0	1.3	8.2	37	76	49	10	3.3	3.1	.60	.17	0
26	.04	.96	6.4	141	47	37	7.3	3.3	5.6	1.1	.17	0
27	0	.76	5.0	134	39	40	6.9	3.2	2.1	.80	.15	.01
28	0	4.8	3.9	46	63	32	36	3.0	2.2	.53	.14	.01
29	.01	9.4	3.5	57	---	27	29	2.9	1.5	.52	.15	.01
30	.03	49	3.2	31	---	23	24	3.0	1.4	.49	.13	1.1
31	0	---	2.8	23	---	22	---	3.0	---	.48	.13	---
TOTAL	1.11	105.99	241.31	854.5	1030	1805	360.7	200.0	86.1	25.45	15.94	3.00
MEAN	.036	3.53	7.78	27.6	36.8	58.2	12.0	6.45	2.87	.82	.51	.10
MAX	1.0	49	82	176	163	238	36	22	9.8	2.1	2.6	1.1
MIN	0	0	.89	1.2	11	22	6.5	2.9	1.4	.48	.13	0
AC-FT	2.2	210	479	1690	2040	3580	715	397	171	50	32	6.0
CAL YR 1982	TOTAL	2970.06	MEAN	8.14	MAX	273	MIN	0	AC-FT	5890		
WTR YR 1983	TOTAL	4729.10	MEAN	13.0	MAX	238	MIN	0	AC-FT	9380		

ALAMEDA CREEK BASIN

111807000 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 National Geodetic Vertical Datum of 1929. Prior to Oct. 26, 1966, at site 0.2 mi downstream at same datum.

REMARKS.--Records poor. This stream is a distributary of Alameda Creek. (See REMARKS for Alameda Creek near Niles). Diversion by Alameda County Water District to percolation ponds between station near Niles and this station; additional percolation to ground water by placing check dams in channel. Channel cleaned in 1980.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s Jan. 24, 1983, gage height, 16.70 ft; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,800 ft³/s Jan. 24, gage height, 16.70 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	19	1290	39	2740	9530	257	1750	150	17	19	0
2	.11	3.4	425	30	1840	8990	224	1310	143	22	10	0
3	.08	1.0	198	33	1220	5770	182	920	127	24	7.8	0
4	0	.45	39	40	810	5140	165	665	125	37	1.2	0
5	0	.32	17	38	700	3710	145	508	137	11	.56	0
6	0	.32	10	27	1320	3210	136	461	148	.92	22	0
7	0	.36	5.3	44	2940	2630	371	400	161	0	12	0
8	0	4.5	3.2	308	7130	1830	334	349	94	.75	6.1	0
9	0	82	2.0	47	4820	1540	312	297	28	1.1	14	0
10	0	118	1.3	29	3680	1450	325	244	26	2.1	.48	0
11	0	43	.86	24	2270	1500	337	198	28	20	24	0
12	0	17	.80	29	2150	1500	276	241	48	3.0	18	0
13	0	8.4	1.8	27	2100	6260	198	207	56	.18	2.0	0
14	0	4.6	5.6	24	1530	4750	179	183	51	.04	.38	0
15	0	2.9	12	28	1270	2700	189	137	45	.01	.61	0
16	0	2.0	5.5	32	841	3000	195	111	40	0	.02	0
17	0	56	5.0	30	688	3300	188	102	34	0	.02	0
18	0	1730	8.3	80	1670	2650	210	91	30	3.7	.03	0
19	0	1020	11	450	1480	2110	269	87	40	2.9	.09	0
20	0	242	6.2	150	1260	1460	441	86	38	.19	1.0	0
21	0	67	827	79	1170	1910	291	88	72	0	11	0
22	0	27	5310	4310	1120	1890	203	81	57	0	.26	0
23	0	12	2950	2260	1180	1770	425	110	36	.02	.04	0
24	0	6.5	836	9150	2070	3690	426	110	28	.01	0	0
25	8.3	3.9	451	3420	2380	3250	530	112	30	6.8	0	0
26	587	2.3	298	3800	3250	2490	372	109	48	12	0	0
27	362	1.6	224	7990	2790	1920	285	103	62	15	0	0
28	152	2.5	97	4210	3790	1300	4120	86	38	31	0	0
29	23	502	4.7	7130	---	910	2440	101	20	28	.01	0
30	79	2510	31	5210	---	650	2400	275	16	23	.03	572
31	83	---	22	3980	---	420	---	153	---	15	.11	---
TOTAL	1294.70	6490.05	13098.56	53048	60209	93230	16425	9675	1956	276.72	150.74	572
MEAN	41.8	216	423	1711	2150	3007	548	312	65.2	8.93	4.86	19.1
MAX	587	2510	5310	9150	7130	9530	4120	1750	161	37	24	572
MIN	0	.32	.80	24	688	420	136	81	16	0	0	0
AC-FT	2570	12870	25980	105200	119400	184900	32580	19190	3880	549	299	1130
CAL YR 1982	TOTAL	103013.65	MEAN	282	MAX	7970	MIN	0	AC-FT	204300		
WTR YR 1983	TOTAL	256425.77	MEAN	703	MAX	9530	MIN	0	AC-FT	508600		

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, 2.2 mi east of Castro Valley.

DRAINAGE AREA.--18.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 260 ft from topographic map.

REMARKS.--Records fair. Some regulation of low flow by ponds above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,280 ft³/s Jan. 24, 1983, gage height, 9.50 ft; minimum daily, no flow for several days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 275 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 22	1400	777	6.55	Mar. 2	1045	852	6.29
Jan. 24	0015	*1,280	9.50	Mar. 13	0700	934	7.48
Feb. 7	2130	585	5.38	Mar. 24	1600	278	3.44

Minimum daily, 0.12 ft³/s Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	1.0	12	4.1	34	134	37	29	5.2	2.6	2.1	.30
2	.46	.63	7.6	3.6	30	255	34	24	4.9	3.1	2.0	.28
3	.30	.55	5.5	5.2	26	145	32	22	4.9	2.5	1.8	.27
4	.28	.49	3.2	7.0	22	93	30	21	5.0	2.2	1.4	.26
5	.27	.48	2.3	6.1	22	74	28	31	4.8	2.1	1.3	.25
6	.32	.48	1.7	5.6	61	62	27	23	4.7	2.1	1.1	.22
7	.28	.46	1.7	5.2	287	63	26	20	4.5	2.1	.97	.24
8	.28	1.3	3.7	4.9	216	48	25	18	4.0	2.1	.79	.25
9	.26	2.4	2.1	4.6	100	43	23	18	4.0	2.0	.71	.23
10	.28	.55	1.6	4.3	67	53	23	16	3.9	2.2	.68	.22
11	.28	.42	1.4	3.9	53	43	21	15	4.0	1.9	.61	.21
12	.29	.36	1.3	3.9	74	65	20	14	3.9	1.8	.53	.19
13	.29	.36	1.5	3.5	74	315	20	13	4.0	2.0	.51	.17
14	.33	.32	1.1	3.4	52	98	19	12	4.0	1.8	.48	.18
15	.33	.32	1.0	3.5	46	67	18	11	4.1	1.9	.50	.18
16	.36	.36	.83	4.6	40	71	18	10	3.8	1.7	.41	.18
17	.39	.55	1.5	3.4	36	111	18	9.8	3.7	1.6	.40	.17
18	.42	.87	1.1	25	64	78	18	8.9	3.9	1.6	.42	.17
19	.37	.28	1.0	14	36	63	20	8.8	3.6	1.6	.52	.16
20	.36	5.4	2.9	7.3	33	88	18	7.9	3.7	1.8	.41	.12
21	.39	4.6	86	5.2	30	74	17	7.4	3.7	1.8	.36	.33
22	.47	6.4	249	153	28	99	16	7.5	3.6	1.9	.35	.16
23	1.1	4.5	30	116	38	92	28	7.3	3.5	2.0	.34	.18
24	.57	3.3	21	256	32	139	22	6.6	3.1	2.0	.33	.18
25	14	2.6	15	68	87	93	21	6.6	3.1	2.1	.34	.18
26	7.3	2.7	12	205	66	77	16	6.4	2.9	2.2	.35	.17
27	1.7	3.0	9.1	228	89	76	17	5.7	3.0	2.2	.34	.20
28	.34	13	7.4	84	165	58	53	5.7	3.2	2.1	.33	.21
29	1.1	26	6.3	89	---	50	29	5.6	3.3	2.1	.32	.21
30	5.0	82	5.4	55	---	44	32	5.3	2.7	2.0	.30	7.9
31	3.0	---	4.7	42	---	41	---	5.3	---	2.4	.30	---
TOTAL	41.40	279.53	500.93	1424.3	1908	2812	726	401.8	116.7	63.5	21.30	13.97
MEAN	1.34	9.32	16.2	45.9	68.1	90.7	24.2	13.0	3.89	2.05	.69	.47
MAX	14	87	249	256	287	315	53	31	5.2	3.1	2.1	7.9
MIN	.26	.32	.83	3.4	22	41	16	5.3	2.7	1.6	.30	.12
AC-FT	82	554	994	2830	3780	5580	1440	797	231	126	42	28
CAL YR 1982	TOTAL	6477.66	MEAN	17.7	MAX	558	MIN	.12	AC-FT	12850		
WTR YR 1983	TOTAL	8309.43	MEAN	22.8	MAX	315	MIN	.12	AC-FT	16480		

SAN LORENZO CREEK BASIN

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.--

SEDIMENT RECORDS: December 1980 to current year.

REMARKS.--Sediment discharge values were estimated for those days that have no daily concentration values.

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 DISCHARGE (storm season only): Maximum daily, 19,800 tons Jan. 4, 1982; minimum daily, 0 tons several days in each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS (storm season only): Maximum daily mean, 8,150 mg/L Feb. 7; minimum daily mean, 3 mg/L Nov. 25, Dec. 19.

SEDIMENT DISCHARGE (storm season only): Maximum daily, 11,200 tons Jan. 24; minimum daily, 0.01 tons several days.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1982 TO APRIL 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	6.0	---	9.0	10.5	14.0					
2	---	---	5.5	6.0	10.0	12.0	19.0					
3	---	---	6.5	6.0	9.0	11.5	12.0					
4	---	---	5.5	8.0	8.5	12.0	10.0					
5	---	---	7.0	7.0	11.0	---	10.0					
6	---	---	7.0	---	11.0	13.0	10.0					
7	---	---	5.0	8.0	12.5	12.0	14.0					
8	---	---	10.0	8.5	11.5	14.0	14.5					
9	---	8.0	10.0	8.5	11.0	---	---					
10	---	8.0	---	7.0	11.0	14.0	12.0					
11	---	---	---	8.0	11.0	12.0	12.0					
12	---	7.0	---	6.5	12.5	12.0	12.0					
13	---	7.0	---	6.0	11.0	13.0	12.0					
14	---	5.0	---	6.5	10.0	11.0	13.0					
15	---	5.0	---	7.5	15.0	11.0	14.5					
16	---	4.0	---	9.0	10.5	11.5	14.0					
17	---	7.5	---	9.0	---	12.0	15.0					
18	---	9.5	---	10.0	11.5	12.0	14.0					
19	---	---	---	8.5	11.5	12.5	14.5					
20	---	---	---	6.5	11.0	17.5	12.0					
21	---	---	11.0	7.0	12.5	---	12.5					
22	---	---	10.0	---	10.5	11.5	12.0					
23	---	7.0	9.0	11.0	11.5	11.5	12.0					
24	---	7.0	---	11.0	11.0	11.0	12.0					
25	---	6.0	8.5	9.5	11.0	9.5	10.5					
26	---	5.5	8.5	12.0	12.0	---	14.0					
27	---	7.5	9.0	11.5	12.5	---	14.0					
28	---	8.5	---	10.0	13.0	11.0	14.0					
29	13.0	8.0	8.0	10.0	---	---	14.0					
30	---	7.5	9.0	11.0	---	15.0	14.0					
31	---	---	6.0	9.0	---	13.0	---					
MONTH	---	---	---	8.5	11.0	12.0	13.0					

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1982 TO APRIL 1983

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.28	---	.01	1.0	18	.05	12	---	1.5
2	.46	---	.01	.63	11	.02	7.6	34	.70
3	.30	---	.01	.55	10	.01	5.5	19	.28
4	.28	---	.01	.49	20	.03	3.2	8	.07
5	.27	---	.01	.48	20	.03	2.3	8	.05
6	.32	---	.01	.48	8	.01	1.7	9	.04
7	.29	---	.01	.46	13	.02	1.7	7	.03
8	.28	---	.01	1.3	---	.30	3.7	8	.08
9	.26	---	.01	2.4	---	1.1	2.1	6	.03
10	.28	---	.01	.55	45	.07	1.6	11	.05
11	.28	---	.01	.42	8	.01	1.4	13	.05
12	.29	---	.01	.36	8	.01	1.3	14	.05
13	.29	---	.01	.36	8	.01	1.5	4	.02
14	.33	---	.01	.32	14	.01	1.1	5	.01
15	.33	---	.01	.32	7	.01	1.0	14	.04
16	.36	---	.01	.36	7	.01	.83	8	.02
17	.39	---	.01	.55	45	.07	1.5	14	.06
18	.42	---	.01	87	3500	1430	1.1	11	.03
19	.37	---	.01	28	126	9.5	1.0	3	.01
20	.36	---	.01	5.4	22	.32	2.9	43	.97
21	.39	---	.01	4.6	9	.11	86	3070	1670
22	.47	---	.02	6.4	---	.38	249	7950	8390
23	1.1	---	3.1	4.5	---	.18	30	865	70
24	.57	---	.36	3.3	6	.05	21	118	6.7
25	14	---	171	2.6	3	.02	15	57	2.3
26	7.3	---	39	2.7	5	.04	12	31	1.0
27	1.7	111	.51	3.0	4	.03	9.1	23	.57
28	.34	56	.05	13	---	1.8	7.4	23	.46
29	1.1	100	1.6	26	---	8.5	6.3	23	.39
30	5.0	---	4.6	82	---	350	5.4	12	.17
31	3.0	26	.21	---	---	---	4.7	13	.16
TOTAL	41.40	---	220.66	279.53	---	1802.70	500.93	---	10145.84

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4.1	6	.07	34	140	13	134	---	1450
2	3.6	6	.06	30	131	11	255	---	7800
3	5.2	6	.08	26	89	6.2	145	1360	532
4	7.0	13	.25	22	82	4.9	93	1360	352
5	6.1	6	.10	22	248	16	74	1120	226
6	5.6	8	.12	61	2010	624	62	1040	179
7	5.2	10	.14	287	8150	7620	63	599	118
8	4.9	9	.12	216	3390	2320	48	355	46
9	4.6	8	.10	100	800	216	43	316	37
10	4.3	6	.07	67	445	81	53	620	114
11	3.9	10	.11	53	389	63	43	275	32
12	3.9	5	.05	74	1900	519	65	842	194
13	3.5	5	.05	74	1360	325	315	7370	10300
14	3.4	8	.07	52	278	39	98	1100	291
15	3.5	10	.09	46	172	21	67	500	90
16	4.6	16	.20	40	209	23	71	1580	397
17	3.4	6	.06	36	116	11	111	3260	1120
18	25	741	124	64	3130	654	78	881	193
19	14	165	6.2	36	524	51	63	339	58
20	7.3	40	1.3	33	210	19	88	1380	670
21	5.2	39	.55	30	166	13	74	1590	318
22	153	5470	3810	28	152	11	99	1940	660
23	116	2210	2760	38	544	73	92	1330	433
24	256	6880	11200	32	410	35	139	2920	1420
25	68	500	92	87	4820	2100	93	699	176
26	205	4360	7570	66	1300	272	77	243	51
27	228	3950	3550	89	2780	738	76	935	202
28	84	879	265	165	---	2500	58	766	120
29	89	1270	395	---	---	---	50	455	61
30	55	306	45	---	---	---	44	212	25
31	42	162	18	---	---	---	41	138	15
TOTAL	1424.3	---	29838.79	1908	---	18379.1	2812	---	27680

SAN LORENZO CREEK BASIN

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1982 TO APRIL 1983

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	37	112	11						
2	34	96	8.8						
3	32	82	7.1						
4	30	64	5.2						
5	28	63	4.8						
6	27	60	4.4						
7	26	55	3.9						
8	25	60	4.1						
9	23	54	3.4						
10	23	47	2.9						
11	21	49	2.8						
12	20	24	1.3						
13	20	31	1.7						
14	19	34	1.7						
15	18	36	1.7						
16	18	30	1.5						
17	18	21	1.0						
18	18	505	26						
19	20	382	20						
20	18	124	6.0						
21	17	77	3.5						
22	16	40	1.7						
23	28	1740	203						
24	22	432	26						
25	21	363	22						
26	16	100	4.3						
27	17	103	5.1						
28	53	1210	206						
29	29	266	21						
30	32	218	21						
31	---	---	---						
TOTAL	726	---	632.9						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, OCTOBER 1982 TO APRIL 1983

MONTH	WATER DISCHARGE	SUSPENDED SEDIMENT DISCHARGE	BEDLOAD DISCHARGE	TOTAL SEDIMENT DISCHARGE
	CFS-DAYS	TONS	TONS	TONS
OCTOBER 1982	41.40	220.66	4	225
NOVEMBER....	279.53	1802.70	51	1850
DECEMBER....	500.93	10145.84	89	10200
JANUARY 1983	1424.30	29838.79	312	30200
FEBRUARY....	1908.00	18379.10	435	18800
MARCH.....	2812.00	27680.00	668	28300
APRIL.....	726.00	632.90	116	749
PERIOD.....	7692.16	88699.99	1675	90324

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. SIEVE DIAM. % FINER THAN	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. SIEVE DIAM. % FINER THAN	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. SIEVE DIAM. % FINER THAN	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. SIEVE DIAM. % FINER THAN	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. SIEVE DIAM. % FINER THAN
DATE	.062 MM	.062 MM	.125 MM	.125 MM	.250 MM	.250 MM	.500 MM	.500 MM	1.00 MM	2.00 MM
NOV										
17...	--	98	--	100	--	--	--	--	--	--
18...	--	--	96	--	99	--	100	--	--	--
18...	--	91	--	96	--	99	--	100	--	--
DEC										
22...	--	82	--	92	--	98	--	100	--	--
22...	--	80	--	92	--	98	--	100	--	--
22...	--	78	--	90	--	96	--	99	100	--
JAN										
26...	--	84	--	93	--	98	--	99	100	--
FEB										
07...	--	66	--	81	--	93	--	98	99	99
09...	--	75	--	86	--	96	--	99	100	--
25...	70	--	86	--	97	--	100	--	--	--
MAR										
02...	--	67	--	84	--	94	--	99	100	--

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.
					% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM
NOV							
12...	1330	7.0	1	0.36	25	53	76
12...	1331	7.0	1	0.36	--	2	3
12...	1332	7.0	1	0.36	--	--	1
					BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.
					% FINER THAN	% FINER THAN	% FINER THAN
DATE	.500 MM	1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM
NOV							
12...	91	95	96	97	97	100	--
12...	5	7	8	11	19	39	100
12...	4	8	14	21	38	71	100

SAN LORENZO CREEK BASIN

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 450 ft, from topographic map. Recording rain gage 2.6 mi north of gage.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--5 years, 5.69 ft³/s, 4,120 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,690 ft³/s Jan. 5, 1982, gage height, 8.71 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	1115	270	3.70	Feb. 7	1615	393	4.40
Nov. 30	0145	734	5.50	Mar. 2	1045	872	5.88
Dec. 22	1315	727	5.48	Mar. 13	0700	*1,300	7.36
Jan. 23	2400	857	5.58	Mar. 17	0245	260	3.83
Jan. 26	2000	776	5.62	Mar. 22	1000	248	3.77

Minimum, no flow Oct. 1-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.17	4.3	3.2	14	50	11	9.3	1.5	.27	.25	.10
2	0	.12	2.3	3.2	13	195	12	6.9	1.4	.26	.23	.10
3	0	.10	1.8	3.2	11	72	9.4	5.6	1.4	.24	.20	.10
4	0	.08	1.6	3.0	11	57	7.9	4.9	1.3	.27	.17	.08
5	0	.06	1.3	2.9	14	42	7.0	11	1.3	.24	.17	.06
6	0	.08	1.1	2.9	54	33	6.5	6.8	1.3	.17	.14	.06
7	0	.10	.96	2.8	199	29	5.9	5.6	1.3	.18	.13	.06
8	0	.27	1.1	2.8	65	35	5.5	4.8	1.2	.22	.13	.06
9	0	.63	.97	2.8	33	23	5.4	4.2	1.2	.17	.13	.06
10	0	.96	.90	2.7	19	26	5.2	3.8	1.2	.17	.13	.06
11	0	.34	.84	2.6	14	24	5.1	3.5	1.2	.14	.12	.06
12	0	.27	.80	2.6	30	44	5.0	3.4	1.1	.17	.10	.06
13	0	.22	.76	2.6	26	275	4.7	3.2	1.1	.13	.10	.06
14	0	.17	.72	2.5	16	40	4.3	3.0	1.1	.10	.10	.06
15	0	.17	.69	2.5	14	30	4.0	2.8	1.1	.10	.10	.06
16	0	.17	.66	2.6	13	31	3.8	2.7	1.0	.13	.10	.06
17	0	.21	1.8	2.5	13	81	3.6	2.6	1.0	.13	.10	.06
18	0	54	1.3	6.5	19	34	4.5	2.4	.97	.13	.10	.06
19	0	1.9	.77	4.2	16	22	9.2	2.3	.94	.13	.10	.06
20	0	1.0	3.5	3.2	16	51	6.0	2.2	.92	.17	.10	.06
21	0	.77	79	3.2	15	43	4.7	2.1	.89	.17	.10	.05
22	0	.73	110	42	14	80	3.6	2.0	.86	.17	.10	.04
23	0	.61	13	40	16	50	14	1.9	.85	.17	.10	.04
24	0	.43	6.7	42	19	105	13	1.9	.66	.21	.10	.04
25	3.5	.43	5.2	6.8	37	69	6.7	1.8	.30	.23	.10	.04
26	9.1	.43	4.6	80	27	28	5.9	1.7	.32	.23	.10	.04
27	.40	.39	4.1	88	45	29	5.0	1.7	.27	.22	.10	.04
28	.10	8.9	3.8	29	35	36	23	1.6	.23	.20	.10	.04
29	.09	6.9	3.6	29	---	21	17	1.6	.25	.23	.10	.04
30	.54	72	3.5	18	---	16	19	1.5	.27	.23	.10	.67
31	.21	---	3.3	15	---	13	---	1.5	---	.23	.10	---
TOTAL	13.94	152.61	264.97	454.3	818	1684	237.9	110.3	28.43	5.81	3.80	2.38
MEAN	.45	5.09	8.55	14.7	29.2	54.3	7.93	3.56	.95	.19	.12	.079
MAX	9.1	72	110	88	199	275	23	11	1.5	.27	.25	.67
MIN	0	.06	.66	2.5	11	13	3.6	1.5	.23	.10	.10	.04
AC-FT	28	303	526	901	1620	3340	472	219	56	12	7.5	4.7
a	2.47	7.76	2.01	5.07	7.19	11.49	3.50	0.83	0	0	0.66	1.35

CAL YR 1982 TOTAL 3821.40 MEAN 10.5 MAX 445 MIN 0 AC-FT 7580
WTR YR 1983 TOTAL 3776.44 MEAN 10.3 MAX 275 MIN 0 AC-FT 7490

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 (storm season only).

REMARKS.--Zero bedload discharge observed at flows less than 19.0 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 17,200 mg/L Feb. 15, 1982; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE: Maximum daily, 23,500 tons Feb. 15, 1982; minimum daily, 0 tons many days.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS (storm season only): Maximum daily mean, 14,900 mg/L Feb. 7; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE (storm season only): Maximum daily, 17,700 tons Mar. 13; minimum daily, 0 tons many days.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1982 TO MARCH 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	11.0	---	---	---	12.0						
2	---	---	---	---	10.0	12.0						
3	---	---	---	---	---	---						
4	---	10.0	---	6.5	---	---						
5	---	---	---	---	10.0	---						
6	---	10.0	---	8.0	12.0	---						
7	---	---	---	---	---	---						
8	---	10.0	10.0	6.0	---	---						
9	---	8.5	---	---	12.5	---						
10	---	---	---	---	---	---						
11	---	---	---	---	14.0	---						
12	---	8.0	---	---	---	---						
13	---	---	---	---	---	---						
14	---	8.5	---	---	12.5	---						
15	---	---	---	---	---	---						
16	---	8.5	---	---	12.5	12.0						
17	---	8.5	---	10.0	---	12.0						
18	---	12.5	---	10.0	---	---						
19	---	11.0	---	---	12.0	---						
20	---	8.0	---	7.5	---	---						
21	---	---	10.0	---	13.0	---						
22	---	---	10.0	9.0	---	10.0						
23	---	---	---	11.0	12.0	---						
24	---	---	---	11.0	---	9.0						
25	---	---	---	---	9.0	---						
26	---	---	---	12.5	---	---						
27	---	---	---	10.0	12.0	---						
28	---	---	---	---	13.0	---						
29	13.0	---	---	---	---	---						
30	12.5	9.0	---	---	---	---						
31	---	---	---	11.0	---	---						
MONTH	---	---	---	---	---	---						

SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, NOVEMBER 1981 TO APRIL 1982
(NOT PREVIOUSLY PUBLISHED)

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
NOVEMBER 1981	49.84	181.16	4	185
DECEMBER	309.62	7758.16	134	7890
JANUARY 1982	1099.30	40901.19	460	41400
FEBRUARY	1112.30	38376.97	608	39000
MARCH	588.10	12937.50	259	13200
APRIL	503.40	2597.40	85	2680
PERIOD	3662.56	102752.38	1550	104355

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1982 TO APRIL 1983

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	.17	3	0	4.3	100	1.2
2	0	0	0	.12	4	0	2.3	.26	.16
3	0	0	0	.10	7	0	1.8	11	.05
4	0	0	0	.08	8	0	1.6	6	.03
5	0	0	0	.06	6	0	1.3	6	.02
6	0	0	0	.08	4	0	1.1	6	.02
7	0	0	0	.10	8	0	.96	6	.02
8	0	0	0	.27	---	.01	1.1	6	.02
9	0	0	0	.63	---	.05	.97	5	.01
10	0	0	0	.96	7	.02	.90	4	.01
11	0	0	0	.34	3	0	.84	3	.01
12	0	0	0	.27	2	0	.80	4	.01
13	0	0	0	.22	2	0	.76	4	.01
14	0	0	0	.17	2	0	.72	5	.01
15	0	0	0	.17	2	0	.69	6	.01
16	0	0	0	.17	2	0	.66	6	.01
17	0	0	0	.21	5	0	1.8	---	.24
18	0	0	0	54	3880	1360	1.3	---	.05
19	0	0	0	1.9	293	1.5	.77	---	.03
20	0	0	0	1.0	14	.04	3.5	---	.19
21	0	0	0	.77	3	.01	79	5450	3530
22	0	0	0	.73	3	.01	110	9470	5310
23	0	0	0	.61	2	0	13	557	22
24	0	0	0	.43	2	0	6.7	243	4.4
25	3.5	781	38	.43	1	0	5.2	149	2.1
26	9.1	1140	86	.43	1	0	4.6	76	.94
27	.40	42	.05	.39	1	0	4.1	28	.31
28	.10	15	0	8.9	1580	165	3.8	26	.27
29	.09	6	0	6.9	1570	38	3.6	24	.23
30	.54	20	.03	72	4950	3840	3.5	23	.22
31	.21	5	0	---	---	---	3.3	21	.19
TOTAL	13.94	---	124.08	152.61	---	5404.64	264.97	---	8872.77

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1982 TO APRIL 1983

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.2	19	.16	14	332	13	50	---	1200
2	3.2	16	.14	13	202	7.1	195	---	9600
3	3.2	13	.11	11	100	3.0	72	---	2450
4	3.0	11	.09	11	46	1.4	57	---	1600
5	2.9	9	.07	14	610	31	42	---	800
6	2.9	6	.05	54	6090	1810	33	---	420
7	2.8	4	.03	199	14900	9310	29	---	290
8	2.8	1	.01	65	---	2050	35	---	500
9	2.8	5	.04	33	1280	114	23	---	125
10	2.7	10	.07	19	750	38	26	1320	128
11	2.6	7	.05	14	568	21	24	610	40
12	2.6	4	.03	30	2140	251	44	2870	538
13	2.6	3	.02	26	2190	154	275	14300	17700
14	2.5	2	.01	16	555	24	40	4400	475
15	2.5	2	.01	14	409	15	30	2700	219
16	2.6	3	.02	13	366	13	31	3280	309
17	2.5	4	.03	13	339	12	81	9650	2840
18	6.5	825	.37	19	614	37	34	4740	464
19	4.2	66	.75	16	245	11	22	2250	134
20	3.2	22	.19	16	160	6.9	51	4540	1460
21	3.2	6	.05	15	177	7.2	43	4810	656
22	42	6380	1240	14	160	6.0	80	7140	2500
23	40	2260	1700	16	---	34	50	5320	1070
24	42	4320	2280	19	---	63	105	---	4500
25	6.8	286	5.3	37	---	580	69	---	2300
26	80	5040	4140	27	---	225	28	---	255
27	88	5720	1790	45	---	940	29	---	290
28	29	884	100	35	---	500	36	---	530
29	29	1960	188	---	---	---	21	---	90
30	18	833	72	---	---	---	16	---	33
31	15	499	20	---	---	---	13	---	16
TOTAL	454.3	---	11574.23	818	---	16277.6	1684	---	53532

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	11		8.5						
2	12		12						
3	9.4		4.7						
4	7.9		2.5						
5	7.0		1.6						
6	6.5		1.3						
7	5.9		.94						
8	5.5		.75						
9	5.4		.70						
10	5.2		.63						
11	5.1		.60						
12	5.0		.56						
13	4.7		.47						
14	4.3		.36						
15	4.0		.29						
16	3.8		.26						
17	3.6		.22						
18	4.5		.41						
19	9.2		4.4						
20	6.0		1.0						
21	4.7		.46						
22	3.6		.22						
23	14		20						
24	13		16						
25	6.7		1.5						
26	5.9		.94						
27	5.0		.56						
28	23		126						
29	17		42						
30	19		63						
31	---		---						
TOTAL	237.9		312.87						
PERIOD	3625.72	---	96098.19						

SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, OCTOBER 1982 TO APRIL 1983

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1982	13.94	124.08	2	126
NOVEMBER....	152.61	5404.64	110	5510
DECEMBER....	264.97	8872.77	196	9070
JANUARY 1983	454.30	11574.23	236	11800
FEBRUARY....	818.00	16277.60	622	16900
MARCH.....	1684.00	53532.00	3450	57000
APRIL.....	237.90	312.87	7	320
PERIOD.....	3625.72	96098.19	4623	100726

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 .031 MM
NOV										
09...	1730	1.9a	8.5	74	.18	--	--	--	--	--
18...	1200	224	13.0	11000	6650	--	54	64	76	83
30...	1000	42	9.0	2700	306	--	49	60	73	84
DEC										
21...	1120	19	10.5	2060	106	--	65	77	86	90
22...	1135	139	10.0	8850	3320	--	31	39	49	59
JAN										
26...	1340	3.5a	12.5	247	2.3	--	--	--	--	--
27...	1005	67	10.0	4810	870	--	27	33	43	54
FEB										
07...	1600	378	13.0	23100	23600	--	30	35	46	59
MAR										
01...	1145	34	12.0	2990	274	--	38	41	54	62
02...	1045	872	12.0	21400	50400	--	33	38	48	59
17...	1705	111	12.0	12500	3750	34	42	50	62	74
APR										
28...	1130	13	--	1460	51	56	65	73	82	89

DATE	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	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
NOV									
09...	--	79	--	86	--	96	--	100	--
18...	--	88	--	91	--	97	--	100	--
30...	--	91	--	96	--	99	--	100	--
DEC									
21...	--	93	--	95	--	99	--	100	--
22...	--	69	--	83	--	96	--	100	--
JAN									
26...	--	94	--	97	--	100	--	--	--
27...	--	66	--	78	--	94	--	100	--
FEB									
07...	--	71	--	84	--	95	--	99	100
MAR									
01...	74	--	84	--	93	--	100	--	--
02...	--	71	--	83	--	95	--	99	100
17...	85	--	95	--	100	--	--	--	--
APR									
28...	--	95	--	96	--	99	--	100	--

a Estimated.

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 08...	1305	10.0	4	.28	6	14	31	44
DEC 21...	1135	10.5	--	19	--	--	2	6
JAN 26...	1400	12.5	--	3.5	--	1	5	10
MAR 02...	1130	12.0	--	343	--	1	2	7
24...	1230	9.0	2	92	--	1	6	16

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 08...	54	63	72	81	90	100	--
DEC 21...	10	16	23	35	53	92	100
JAN 26...	14	20	31	47	70	100	--
MAR 02...	13	28	55	71	82	100	--
24...	30	52	74	86	96	100	--

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
MAR 01...	1225	12.0	16	36	16.0	42	1	7

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	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
MAR 01...	18	26	38	55	72	90	98	100

SAN LORENZO CREEK BASIN

11181000 SAN LORENZO CREEK AT HAYWARD, CA

LOCATION.--Lat 37°41'11", long 122°03'44", in San Lorenzo Grant, Alameda County, Hydrologic Unit 18050004, on right bank at bridge on B Street, just outside city limits of Hayward, 0.5 mi downstream from Crow Creek, and 0.9 mi downstream from Don Castro Dam.

DRAINAGE AREA.--37.5 mi².

PERIOD OF RECORD.--October 1939 to September 1940, October 1946 to Apr. 28, 1983 (discontinued). Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1947(M), 1949(M). WSP 1345: 1940(M). WSP 1715: 1947.

GAGE.--Water-stage recorder and concrete control (control ineffective since 1952 due to gravel fill). Datum of gage is 133.16 ft National Geodetic Vertical Datum of 1929. January to September 1940, nonrecording gage on bridge at present site and datum.

REMARKS.--Records poor. Flow partly regulated since October 1962 by Cull Creek Reservoir, capacity, 310 acre-ft and since January 1965 by Don Castro Reservoir, 0.9 mi upstream, capacity, 380 acre-ft. A few very small diversions above station for irrigation.

AVERAGE DISCHARGE.--37 years (water years 1939, 1946-82), 15.7 ft³/s, 11,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,740 ft³/s Jan. 5, 1982, gage height, 20.15 ft; maximum gage height, 20.82 ft, from floodmarks, Dec. 22, 1955; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 550 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	0215	816	8.00	Mar. 2	1100	3,040	12.86
Dec. 22	1430	3,600	13.83	Mar. 13	0715	*5,420	16.80
Jan. 24	0100	4,690	15.65	Mar. 17	0300	957	8.40
Feb. 7	2215	1,800	10.43	Mar. 20	2030	972	8.44
Feb. 13	0045	556	7.25	Mar. 24	1630	936	8.34
Feb. 27	0130	1,240	9.14				

Minimum, no flow Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER 1982 TO APRIL 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.4	22	20	102	419	65					
2	.01	.80	10	18	90	1120	59					
3	.11	.66	6.5	17	79	363	48					
4	.60	.58	4.8	17	73	249	34					
5	.71	.54	4.0	15	82	187	31					
6	.15	.52	3.2	15	271	153	29					
7	1.2	.66	2.6	13	938	195	28					
8	1.1	1.4	2.3	13	533	138	25					
9	1.1	2.9	2.0	13	236	120	24					
10	.86	1.3	1.7	11	166	161	24					
11	1.6	1.0	1.5	11	135	124	23					
12	2.9	.72	1.7	11	197	231	21					
13	3.4	.62	1.8	11	217	1240	20					
14	2.8	.57	1.4	9.9	132	202	18					
15	.43	.52	1.4	10	116	121	17					
16	4.1	1.7	1.4	15	102	156	16					
17	4.9	5.1	3.8	12	91	352	14					
18	4.7	132	1.9	60	203	162	17					
19	3.7	21	1.6	49	102	113	16					
20	3.8	8.0	4.0	19	88	237	20					
21	4.3	6.0	278	16	82	199	16					
22	5.1	12	718	376	77	323	14					
23	5.2	9.0	168	180	106	267	55					
24	6.4	6.5	85	796	109	441	27					
25	19	5.0	57	163	291	237	37					
26	7.6	5.4	45	636	174	176	15					
27	.73	5.8	37	598	359	203	15					
28	.62	27	30	213	308	128	133					
29	1.5	22	27	257	---	101	---					
30	5.1	159	24	158	---	84	---					
31	2.5	---	21	124	---	78	---					
TOTAL	96.22	439.69	1569.6	3876.9	5459	8280	---					
MEAN	3.10	14.7	50.6	125	195	267	---					
MAX	19	159	718	796	938	1240	---					
MIN	0	.52	1.4	9.9	73	78	---					
AC-FT	191	872	3110	7690	10830	16420	---					

CAL YR 1982 TOTAL 20833.84 MEAN 57.1 MAX 2320 MIN 0 AC-FT 41320

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 at Hayward, 700 ft upstream from mouth, and 700 ft downstream from small leftbank tributary.

DRAINAGE AREA.--5.51 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year (seasonal records only, water years 1975-77).

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 100 ft from topographic map. Recording rain gages at Sydney School, altitude, 400 ft at site 2.2 mi northwest of gaging station and at Proctor School, altitude, 420 ft at site 2.6 mi north of gaging station.

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

AVERAGE DISCHARGE.--9 years (water years 1972-74, 1978-83), 4.98 ft³/s, 3,610 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft³/s Jan. 23, 1983, gage height, 8.51 ft, from rating curve extended above 61 ft³/s on basis of slope-area measurements at gage height 3.92 ft and step backwater computation to gage height 10.40 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 25	2015	937	7.09	Feb. 26	2300	602	5.72
Nov. 18	0930	631	5.85	Mar. 2	0915	645	5.91
Dec. 22	1235	908	6.98	Mar. 13	0530	978	7.24
Jan. 23	2325	*1,350	8.51	Mar. 17	0010	807	6.59
Jan. 26	1815	785	6.50	Apr. 30	1715	645	5.91

Minimum daily, 0.18 ft³/s Oct. 10.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 28	0225	576	5.60	Jan. 4	2315	*1,010	7.36
Nov. 13	1310	879	6.87	Feb. 15	2055	994	7.30
Dec. 29	1440	594	5.68	Mar. 30	1900	700	6.15

Minimum daily, 0.10 ft³/s Oct. 6, 13-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES (NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.19	.71	16	2.4	18	34	.95	.49	.38	.28	.24
2	2.6	.18	.62	9.8	2.0	22	32	.96	.45	.35	.28	.24
3	1.6	.16	.55	26	1.3	3.0	12	.91	.49	.27	.28	.24
4	.24	.16	.54	322	2.3	1.8	6.8	.89	.49	.32	.28	.22
5	.31	.19	.50	105	1.6	1.8	7.9	.91	.53	.35	.32	.24
6	.10	.19	.51	11	.94	1.4	5.2	.84	.45	.35	.29	.24
7	15	.17	.49	6.8	.84	1.4	4.2	.85	.49	.32	.32	.24
8	.15	.17	.50	5.2	.82	1.2	3.6	.80	.45	.32	.32	.22
9	.14	.16	1.6	4.6	.82	1.1	3.1	.78	.45	.27	.29	.22
10	1.2	.29	.61	4.0	.82	5.1	53	.75	.42	.32	.27	.22
11	.12	.41	.46	3.6	.80	25	24	.70	.42	.32	.29	.22
12	.12	32	3.0	3.1	.74	2.7	6.0	.74	.45	.32	.38	.22
13	.10	114	.69	2.8	6.3	1.8	4.4	.67	.42	.32	.29	.27
14	.10	3.3	.74	2.5	56	11	7.9	.67	.45	.32	.27	.22
15	.14	.99	3.0	2.3	252	2.1	3.7	.67	.42	.28	.29	.96
16	.29	16	1.5	2.0	67	36	3.2	.67	.45	.28	.29	1.3
17	.11	8.4	1.4	1.9	13	15	2.8	.62	.42	1.1	.29	.29
18	.11	.68	6.4	18	6.4	14	2.5	.62	.42	.28	.29	.88
19	.12	.48	57	76	4.6	4.1	2.2	.62	.42	.28	1.3	.22
20	.25	.40	76	59	3.7	3.1	2.0	.58	.42	.28	.32	.20
21	.11	22	12	22	3.1	2.5	1.8	.58	.42	.28	.29	.20
22	.12	6.0	2.8	3.6	2.7	2.1	1.6	.58	.42	.28	.29	.24
23	.17	12	2.0	3.0	2.2	1.9	1.8	.58	.42	.28	.29	6.2
24	.12	3.5	1.6	2.7	2.0	1.7	1.4	.58	.42	.28	.29	5.2
25	.37	.80	1.3	2.4	1.8	6.1	1.3	.58	.42	.28	.29	11
26	.11	32	8.1	7.6	2.0	4.6	1.3	.58	.42	.28	.24	.38
27	8.4	13	5.9	2.4	1.5	7.4	1.2	.53	.42	.28	.29	.32
28	53	2.5	1.8	28	1.4	13	1.1	.53	.42	.32	.29	.29
29	6.8	1.0	125	3.3	---	54	1.1	.49	5.1	.28	.29	.27
30	.31	.76	11	2.9	---	102	1.1	.49	.38	.32	.27	.27
31	.25	---	11	2.8	---	163	---	.53	---	.28	.24	---
TOTAL	92.68	272.08	339.32	762.3	441.08	529.9	234.2	21.25	17.84	10.19	10.01	31.47
MEAN	2.99	9.07	10.9	24.6	15.8	17.1	7.81	.69	.59	.33	.32	1.05
MAX	53	114	125	322	252	163	53	.96	5.1	1.1	1.3	11
MIN	.10	.16	.46	1.9	.74	1.1	1.1	.49	.38	.27	.24	.20
AC-FT	184	540	673	1510	875	1050	465	42	35	20	20	62
CAL YR 1981	TOTAL	1330.22	MEAN	3.64	MAX	125	MIN	.10	AC-FT	2640		
WTR YR 1982	TOTAL	2762.32	MEAN	7.57	MAX	322	MIN	.10	AC-FT	5480		

SAN LORENZO CREEK BASIN

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.51	3.5	.83	3.6	48	3.8	6.0	.83	.61	.39	.34
2	.22	2.3	1.8	.80	3.3	189	3.7	3.2	.80	.57	.44	.34
3	.22	5.0	1.2	.86	2.5	20	3.0	2.5	.80	.57	.41	.34
4	.25	5.7	1.0	.76	2.1	19	2.7	3.2	.82	.57	.38	.48
5	.22	2.6	.95	.87	14	15	2.4	24	.83	.55	.41	.39
6	.37	.34	.91	.82	81	23	2.2	3.4	.84	.51	.42	.49
7	.27	.36	.76	.72	110	13	2.1	2.4	.77	.48	.44	.36
8	.27	6.1	.78	.72	40	6.4	1.9	2.1	.72	.50	.46	.34
9	.22	11	.68	.71	10	5.2	1.8	1.9	.69	.48	.40	.34
10	.18	1.3	.79	.65	6.3	32	1.7	1.8	.76	.50	.41	.37
11	.25	.48	.65	.68	5.2	7.6	1.6	1.6	.72	.51	.43	.57
12	.21	.43	1.9	.84	12	52	1.6	1.6	.75	.54	.44	.59
13	.21	.42	.87	.61	5.0	170	1.4	1.5	.75	.58	.46	.46
14	.21	.37	.66	.61	4.1	14	1.4	1.5	.73	.50	.45	.46
15	.28	.49	.62	4.4	3.6	10	1.4	1.3	.70	.55	.46	.38
16	.21	.42	.65	3.0	3.2	40	1.4	1.4	.71	.52	.39	.33
17	.19	4.5	3.9	.73	5.0	105	1.4	1.6	.80	.48	.44	1.0
18	.21	153	.62	33	9.0	21	7.3	1.2	.63	.51	.41	.34
19	.21	3.0	.61	6.7	3.9	9.3	12	1.2	.66	.45	7.8	.36
20	.22	1.2	6.9	1.5	3.2	54	2.9	1.1	.63	.61	10	.32
21	.21	.85	83	2.1	2.8	14	1.3	1.1	.65	.50	11	.36
22	.21	11	121	90	2.7	48	1.2	1.1	.62	.49	4.1	.33
23	.21	1.8	11	72	28	29	29	1.1	.62	.47	.39	.36
24	.31	.87	3.3	51	6.9	59	13	1.2	.68	.46	.38	.36
25	6.9	.71	2.2	6.3	69	13	4.2	1.1	.67	.47	.38	.36
26	45	.66	1.7	100	43	11	1.8	.99	.66	.48	.38	.35
27	4.8	.72	1.4	59	48	21	9.0	1.0	.64	.57	3.1	.36
28	.55	33	1.2	21	54	7.2	41	.93	.58	.47	.35	.34
29	.50	17	1.2	21	---	5.5	5.4	.88	.94	.49	.36	.32
30	7.5	45	1.0	7.1	---	4.9	37	.91	.69	.43	.34	37
31	.53	---	.93	4.6	---	6.3	---	.89	---	.44	.37	---
TOTAL	71.36	311.13	257.68	493.91	581.4	1072.4	200.6	75.70	21.69	15.86	46.59	48.74
MEAN	2.30	10.4	8.31	15.9	20.8	34.6	6.69	2.44	.72	.51	1.50	1.62
MAX	45	153	121	100	110	189	41	24	.94	.61	11	37
MIN	.18	.34	.61	.61	2.1	4.9	1.2	.88	.58	.43	.34	.32
AC-FT	142	617	511	980	1150	2130	398	150	43	31	92	97
CAL YR 1982	TOTAL	2698.41	MEAN	7.39	MAX	322	MIN	.18	AC-FT	5350		
WTR YR 1983	TOTAL	3197.06	MEAN	8.76	MAX	189	MIN	.18	AC-FT	6340		

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (00340)	SOLIDS, RESIDUE AT 105 DEG. C, PENDEDED (MG/L) (00530)	SOLIDS, VOLLA- TILE, SUS- PENDEDED (MG/L) (00535)	SOLIDS, NON- VOLLA- TILE, SUS- PENDEDED (MG/L) (00540)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT , 1981											
10-10	229	6.4	6.0	52	22	10	12	193	2.8	1.1	.25
27-28	234	7.3	6.5	140	226	47	179	216	4.1	1.4	.30
NOV											
13-14	213	7.4	7.0	87	54	4	50	152	2.8	1.5	<.06
20-22	660	8.0	14.0	<9	117	18	99	484	4.3	2.8	.17
23-24	213	7.7	7.5	--	--	--	--	149	--	--	--
25-30	486	7.5	5.0	73	105	22	83	347	5.4	3.8	.16
DEC											
09-10	814	7.9	17.0	--	--	--	--	408	--	--	--
11-14	247	7.7	9.0	40	10	13	.00	147	.93	.49	.08
15-16	240	7.6	21.0	--	--	--	--	156	--	--	--
18-21	250	7.2	6.5	71	221	18	203	230	4.0	2.5	.11
26-28	237	7.4	13.5	--	--	--	--	163	--	--	--
28-31	235	7.7	9.5	49	556	46	510	714	4.2	2.9	.23
JAN											
01-06	235	7.7	9.5	49	556	46	510	714	4.2	2.9	.23
JAN , 1982											
17-21	370	7.9	4.0	41	55	23	32	248	3.0	2.0	.24
25-29	489	8.0	2.5	34	67	24	43	330	3.7	2.7	.27
FEB											
13-16	253	7.8	6.0	100	612	56	556	812	5.0	2.0	.21
16-18	631	8.2	3.0	50	300	40	260	719	7.3	4.6	.19
28-28	440	8.0	4.0	59	86	23	63	318	3.2	2.1	<.06
MAR											
01-03	440	8.0	4.0	59	86	23	63	318	3.2	2.1	<.06
09-12	417	8.0	4.5	45	75	15	60	377	3.0	1.6	--
15-19	458	8.0	3.0	45	91	22	69	321	3.7	2.2	.17
25-31	441	8.0	6.0	42	148	34	114	427	3.3	2.3	.09
APR											
01-05	441	8.0	6.0	42	148	34	114	427	3.3	2.3	.09
09-13	529	7.8	4.0	57	41	10	31	388	3.3	2.3	.06
SEP											
23-24	243	7.0	21.0	--	--	--	--	891	--	--	--
OCT											
25-26	164	7.3	8.0	--	--	--	--	1080	--	--	--
NOV											
09-10	243	7.9	7.5	70	53	40	13	195	2.7	1.2	.12
17-19	238	8.0	10.0	61	104	36	68	439	7.4	3.4	.12
22-23	246	8.2	7.0	53	78	37	41	247	2.8	1.3	<.06
29-30	306	8.4	5.0	53	64	19	45	294	5.7	2.5	.07
DEC											
01-01	306	8.4	5.0	53	64	19	45	294	5.7	2.5	.07

See footnote at end of table.

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, ORTHO, DIS- SOLVED TOTAL (MG/L AS P) (00671)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	
OCT , 1981											
10-10	1.5	1.7	.38	.40	3	4	20	66	1.1	150	
27-28	2.4	2.7	.46	.32	5	2	30	390	2.5	320	
NOV											
13-14	--	1.3	.38	.23	3	2	14	130	2.9	120	
20-22	1.3	1.5	.40	.30	8	1	18	160	8.6	140	
23-24	--	--	--	--	--	--	--	200	--	100	
25-30	1.4	1.6	.29	.28	5	1	16	97	3.0	80	
DEC											
09-10	--	--	--	--	--	--	--	300	--	150	
11-14	.36	.44	.05	.05	1	1	5	26	.6	30	
15-16	--	--	--	--	--	--	--	<100	--	70	
18-21	1.4	1.5	.36	.26	2	1	26	140	1.4	140	
26-28	--	--	--	--	--	--	--	200	--	90	
29-31	1.1	1.3	.47	.38	10	1	49	120	2.8	140	
JAN											
01-06	1.1	1.3	.47	.38	10	1	49	120	2.8	140	
JAN , 1982											
17-21	.76	1.0	.22	.21	3	2	25	81	5.8	80	
25-29	.73	1.0	.17	.15	2	1	14	62	.8	60	
FEB											
13-16	2.8	3.0	.40	.34	8	<1	35	100	11	150	
16-18	2.5	2.7	.26	.23	4	<1	62	130	1.3	270	
28-28	--	1.1	.21	.18	3	1	14	86	.5	110	
MAR											
01-03	--	1.1	.21	.18	3	1	14	86	.5	110	
09-12	--	1.4	.21	.15	3	1	22	92	.8	80	
15-19	1.3	1.5	.29	.24	3	2	13	75	14	90	
25-31	.91	1.0	.50	.20	4	2	15	55	1.3	80	
APR											
01-05	.91	1.0	.50	.20	4	2	15	55	1.3	80	
09-13	.90	.96	.23	.19	2	1	7	42	2.5	50	
SEP											
23-24	--	--	--	--	--	--	--	800	--	690	
OCT											
25-26	--	--	--	--	--	--	--	600	--	440	
NOV											
09-10	1.4	1.5	.20	.14	8	2	15	120	2.2	100	
17-19	3.9	4.0	.49	.34	4	1	24	140	3.1	140	
22-23	--	1.5	.24	.10	8	1	16	140	4.5	110	
29-30	3.1	3.2	.43	.19	4	1	5	110	1.8	110	
DEC											
01-01	3.1	3.2	.43	.19	4	1	5	110	1.8	110	
DATE	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, VOLATILE, SUS- PENDED (MG/L) (00535)	SOLIDS, NON- VOLATILE, SUS- PENDED (MG/L) (00540)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)
DEC , 1982											
22-23	351	7.6	6.0	79	658	68	590	1210	5.7	4.2	.240
JAN , 1983											
17-19	315	7.2	5.0	54	78	5	73	313	2.1	1.8	.110
FEB											
25-28	246	7.8	7.0	51	104	8	96	298	3.0	1.2	.110
MAR											
01-01	246	7.8	7.0	51	104	8	96	298	3.0	1.2	.110
01-03	218	7.3	10.0	65	312	<1	--	676	7.4	4.7	.440
04-06	407	8.8	4.0	34	63	2	61	355	5.5	4.3	.170
10-11	245	6.7	7.0	--	--	--	--	311	--	--	--
21-23	279	7.6	7.0	41	119	34	85	310	2.9	1.0	.120
23-25	292	7.5	6.0	60	260	70	190	453	3.2	1.0	.110
26-28	419	7.8	6.0	--	--	--	--	422	--	--	--
APR											
14-22	250	6.7	8.5	140	408	50	358	1380	4.9	1.3	.180
22-25	190	7.2	9.0	66	148	25	123	285	3.0	.90	.240
25-29	222	7.3	8.0	50	155	42	113	305	2.6	1.0	.110
29-30	276	7.4	9.0	78	426	108	318	638	4.8	1.3	.090
MAY											
01-02	276	7.4	9.0	78	426	108	318	638	4.8	1.3	.090
05-06	177	7.4	8.0	72	128	3	125	627	2.4	.70	.120

See footnote at end of table.

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
DEC , 1982										
22-23	1.3	1.5	.73	.48	5	1	9	98	16	210
JAN , 1983										
17-19	.19	.30	.35	.21	3	<1	15	140	2.0	120
FEB										
25-28	1.7	1.8	.40	.26	2	3	19	180	2.7	130
MAR										
01-01	1.7	1.8	.40	.26	2	3	19	180	2.7	130
01-03	2.3	2.7	.73	.36	5	1	33	86	1.0	130
04-06	1.0	1.1	.30	.20	3	1	10	72	.3	60
10-11	--	--	--	--	--	--	--	200	--	100
21-23	1.8	1.9	.33	.20	3	1	12	77	.2	80
23-25	2.1	2.2	.44	.20	3	1	28	120	.3	120
26-28	--	--	--	--	--	1	12	100	.2	60
APR										
14-22	3.4	3.6	.95	.09	5	2	86	940	1.1	510
22-25	1.9	2.1	.25	.19	3	1	25	120	.3	120
25-29	1.5	1.6	.32	.19	4	2	20	120	.3	110
29-30	3.4	3.5	.54	.16	4	1	41	220	.9	220
MAY										
01-02	3.4	3.5	.54	.16	4	1	41	220	.9	220
05-06	1.6	1.7	.42	.14	3	1	27	160	.4	160

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

CASTRO CREEK BASIN

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 mi².

PERIOD OF RECORD.--October 1975 to current year.

REVISED RECORDS.--WDR CA-82-2: 1979-80(M).

GAGE.--Water-stage recorder. Datum of gage is 65.56 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Minor storage in Lake Anza and Jewel Lake 5 mi upstream. No diversion above station.

AVERAGE DISCHARGE.--8 years, 6.24 ft³/s, 4,520 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,050 ft³/s Jan. 4, 1982, gage-height, 15.80 ft; no flow Aug. 31, Sept. 6, 7, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft³/s and Maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 21	1630	414	5.25	Feb. 25	1515	499	5.68
Jan. 23	2400	*720	6.73	Mar. 2	0315	501	5.69
Jan. 26	1830	461	5.49	Mar. 13	0700	683	6.56

Minimum daily, 0.13 ft³/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	1.1	13	3.9	26	104	18	9.6	2.0	1.2	.61	.36
2	.17	.93	5.4	3.4	24	160	16	7.4	1.9	1.6	.58	.42
3	.20	.77	3.4	3.2	22	68	14	7.2	2.0	1.4	.53	.38
4	.19	4.3	2.5	2.9	20	60	13	6.9	2.0	1.3	.56	.35
5	.19	1.8	2.2	2.5	26	48	12	16	2.5	1.3	.49	.36
6	.16	4.7	1.8	2.5	74	38	12	11	1.9	1.1	.48	.36
7	.18	1.3	1.7	2.5	125	55	11	7.6	1.9	1.8	.42	.58
8	.18	.71	1.7	2.5	97	36	9.5	6.7	1.6	1.3	.44	.67
9	.23	1.1	1.5	2.7	40	33	6.8	5.9	1.7	1.3	.49	.63
10	.37	.89	1.8	16	28	37	6.5	5.6	1.5	1.1	.55	.61
11	.21	.67	1.3	36	19	34	6.4	5.0	1.6	.67	.46	.41
12	.23	.59	1.5	25	108	125	6.2	4.6	1.9	.64	.45	.29
13	.27	.51	1.6	4.3	61	243	5.7	4.2	1.7	.60	.42	.27
14	.24	.51	1.3	4.0	33	55	5.2	3.6	1.6	.69	.50	.27
15	.30	.51	1.3	4.0	26	35	5.2	3.3	1.3	.67	.46	.30
16	.28	4.2	1.4	5.1	17	61	4.9	3.7	1.3	.61	.44	.30
17	.29	6.3	4.1	3.9	21	108	4.7	3.1	1.1	.70	.42	.32
18	.21	57	1.8	25	45	82	7.6	3.1	1.6	.79	.43	.33
19	.23	8.6	1.4	13	24	42	9.4	3.1	1.2	.57	.57	.34
20	.25	4.4	2.8	6.0	18	46	10	2.5	1.3	.70	.60	.32
21	.23	3.9	115	4.5	16	41	8.5	2.3	1.2	.64	.51	.30
22	.23	7.2	121	62	15	66	6.1	2.5	1.0	.54	.46	.24
23	.26	5.6	42	57	22	89	35	2.5	1.5	.41	.44	.31
24	1.8	3.8	21	96	22	76	32	2.5	1.2	.41	.41	.35
25	14	1.2	12	35	142	43	17	2.1	1.1	.49	.39	.31
26	5.8	.75	9.2	128	72	34	10	2.4	1.2	.53	.62	.28
27	1.2	2.3	7.3	102	67	51	12	2.5	1.0	.62	.45	.31
28	.98	21	5.7	49	91	29	15	2.2	1.1	.54	.37	.34
29	2.2	43	5.5	75	---	23	7.7	2.1	1.3	.62	.35	.33
30	5.0	77	3.8	42	---	21	14	1.9	1.4	.48	.35	3.2
31	2.0	---	3.9	31	---	22	---	1.9	---	.47	.34	---
TOTAL	38.21	266.64	399.9	849.9	1301	1965	341.4	145.0	45.6	25.79	14.59	13.84
MEAN	1.23	8.89	12.9	27.4	46.5	63.4	11.4	4.68	1.52	.83	.47	.46
MAX	14	77	121	128	142	243	35	16	2.5	1.8	.62	3.2
MIN	.13	.51	1.3	2.5	15	21	4.7	1.9	1.0	.41	.34	.24
AC-FT	76	529	793	1690	2580	3900	677	288	90	51	29	27
CAL YR 1982	TOTAL	5147.03	MEAN	14.1	MAX	1010	MIN	.08	AC-FT	10210		
WTR YR 1983	TOTAL	5406.87	MEAN	14.8	MAX	243	MIN	.13	AC-FT	10720		

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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 13.63 ft Corps of Engineers datum. Prior to Aug. 13, 1965, at site 0.2 mi upstream at datum 7.74 ft higher.

REMARKS.--Records fair. Low flow affected by return flow from industrial waste, leakage, and infrequent releases from off-stream North Reservoir.

AVERAGE DISCHARGE.--22 years (water years 1962-83), 1.53 ft³/s, 1,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 477 ft³/s Dec. 20, 1969, gage height, 6.95 ft, from rating curve extended above 150 ft³/s; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 180 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 25	2000	*335	6.36	Feb. 28	2045	260	5.64
Nov. 18	0745	227	5.31	Mar. 12	1945	248	5.52
Nov. 29	1315	200	5.00	Mar. 16	1815	187	4.87
Jan. 23	2300	279	5.83	Mar. 22	0815	210	5.12
Jan. 26	1800	185	4.85	May 5	1245	207	5.08
Feb. 12	0630	210	5.14				

Minimum, no flow several days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.05	1.2	.24	.81	26	1.2	1.4	.52	.16	.07	.04
2	.01	.03	.76	.22	2.5	39	1.1	.66	.48	.17	.06	.12
3	.02	.05	.45	.22	.75	7.0	1.0	.55	.46	.31	.07	.06
4	.03	.02	.38	.19	.54	19	.88	.49	.47	.26	.06	.10
5	.02	.02	.31	.19	6.0	8.6	.81	12	.58	.21	.07	.09
6	.01	.02	.27	.19	32	5.6	.76	.90	.31	.28	.07	.07
7	0	.02	.22	.18	36	9.1	.76	.60	.25	.15	.07	.04
8	0	.32	.17	.18	7.2	1.9	.73	.53	.38	.11	.05	.06
9	0	2.8	.17	.17	.82	1.2	.69	.49	.25	.08	.05	.07
10	0	.23	.15	.15	.36	7.1	.55	.50	.15	.13	.10	.03
11	0	.02	.14	.15	6.7	1.4	.55	.57	.19	.18	.06	.07
12	0	.02	.41	.14	42	51	.56	.59	.31	.12	.08	.04
13	0	.02	.16	.15	7.2	42	.52	.55	.38	.14	.06	.03
14	0	.01	.11	.15	1.5	2.0	.53	.66	.25	.11	.09	.03
15	.01	.01	.11	.24	3.7	1.3	.59	.85	.19	.08	.07	.05
16	.04	.02	.98	1.0	1.2	22	.68	.88	.19	.08	.06	.14
17	.06	2.7	1.8	.16	.81	37	.70	.83	.15	.08	.08	.07
18	.02	57	.15	19	13	6.4	2.1	1.2	.15	.06	.11	.12
19	.01	1.0	.11	.99	1.1	1.6	5.6	1.5	.19	.09	.67	.15
20	0	.32	5.2	.37	.79	11	1.1	1.5	.08	.09	.09	.04
21	0	.21	34	.29	.66	2.7	.75	1.8	.15	.10	.05	.17
22	.01	14	40	33	.56	26	.69	13	.17	.09	.09	.08
23	.01	2.2	3.0	29	10	22	17	.79	.26	.08	.09	.07
24	5.4	.39	.77	19	2.8	18	9.3	.81	.25	.10	.05	.05
25	40	.22	.49	1.4	51	2.6	1.1	.83	.26	.06	.09	.08
26	2.3	.16	.38	47	10	3.4	.65	.91	.23	.06	.10	.05
27	.13	10	.32	15	15	15	5.2	.88	.17	.09	.07	.03
28	.05	35	.27	7.0	51	1.7	7.1	.83	.20	.11	.07	.06
29	4.1	39	.25	18	---	1.3	.94	.70	.43	.07	.07	.05
30	11	21	.27	2.0	---	1.4	14	.72	.18	.06	.06	10
31	.17	---	.25	1.1	---	1.8	---	.57	---	.08	.07	---
TOTAL	63.41	186.86	93.25	197.07	306.00	396.1	78.14	49.09	8.23	3.79	2.85	12.06
MEAN	2.05	6.23	3.01	6.36	10.9	12.8	2.60	1.58	.27	.12	.092	.40
MAX	40	57	40	47	51	51	17	13	.58	.31	.67	10
MIN	0	.01	.11	.14	.36	1.2	.52	.49	.08	.06	.05	.03
AC-FT	126	371	185	391	607	786	155	97	16	7.5	5.7	24

CAL YR 1982	TOTAL	1238.40	MEAN	3.39	MAX	232	MIN	0	AC-FT	2460
WTR YR 1983	TOTAL	1396.85	MEAN	3.83	MAX	57	MIN	0	AC-FT	2770

PACHECO CREEK BASIN

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 mi².

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WSP 1445: 1953-54(P).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 530 ft, from topographic map.

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

AVERAGE DISCHARGE.--31 years, 3.35 ft³/s, 2,430 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft³/s Oct. 13, 1962, gage height, 16.98 ft; no flow for parts of most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	0115	503	5.74	Feb. 27	0030	426	5.19
Dec. 22	1330	559	6.15	Mar. 2	0930	395	4.97
Jan. 23	2330	407	5.05	Mar. 13	0630	* 770	7.77
Jan. 26	1945	457	5.41	Mar. 23	1845	249	4.04
Feb. 7	1545	355	4.70				

Minimum daily, 0.10 ft³/s Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.36	4.6	3.4	16	106	18	9.0	2.4	1.1	.52	.34
2	.24	.28	3.0	3.2	15	181	16	7.1	2.3	1.1	.47	.32
3	.21	.24	3.0	3.1	14	127	15	6.7	2.2	.91	.48	.30
4	.19	.21	2.7	2.8	13	85	13	6.3	2.1	.78	.44	.29
5	.18	.21	2.5	2.7	18	56	12	8.5	2.1	.74	.45	.27
6	.21	.21	2.0	2.6	62	38	12	6.4	1.9	.80	.41	.28
7	.22	.21	1.7	2.6	147	44	11	5.8	1.8	.89	.39	.29
8	.19	.29	1.5	2.6	79	33	10	5.3	1.8	.73	.36	.31
9	.31	.30	1.4	2.4	43	24	9.9	5.1	1.8	.60	.39	.30
10	.15	.55	1.4	2.4	31	38	9.4	4.8	1.8	.57	.43	.26
11	.15	.44	1.3	2.3	28	25	8.7	4.5	1.8	.46	.41	.24
12	.15	.35	1.3	2.3	50	42	8.4	4.4	1.8	.44	.37	.21
13	.15	.34	1.3	2.1	38	149	8.1	4.3	1.7	.48	.54	.18
14	.16	.34	1.2	2.1	27	95	7.5	4.1	1.6	.48	.35	.18
15	.20	.34	1.2	2.1	26	54	7.2	4.0	1.6	.49	.35	.16
16	.25	.34	1.2	2.6	26	60	6.8	3.8	1.6	.55	.30	.16
17	.29	.45	2.8	2.4	25	71	6.5	3.6	1.4	.64	.29	.18
18	.30	.29	2.0	1.1	74	47	6.8	3.5	1.5	.62	.34	.18
19	.28	2.8	1.6	5.2	30	35	8.0	3.3	1.4	.64	.47	.16
20	.27	1.0	2.6	3.1	25	48	6.7	3.2	1.4	.63	.42	.12
21	.38	.68	.80	2.8	25	37	6.0	3.0	1.3	.60	.38	.10
22	.46	.98	126	58	25	58	5.6	2.9	1.3	.59	.38	.16
23	.45	.98	28	36	30	82	11	2.9	1.3	.67	.37	.21
24	.45	.61	13	67	26	95	9.8	2.8	1.3	.73	.35	.19
25	2.4	.56	8.7	18	65	66	9.2	2.8	1.3	.75	.36	.19
26	2.2	.54	7.0	85	44	47	5.9	2.7	1.1	.69	.38	.20
27	.43	.59	5.8	78	77	37	6.5	2.6	1.1	.65	.40	.23
28	.34	9.6	4.9	34	58	30	21	2.5	1.1	.62	.43	.23
29	.30	12	4.4	42	---	27	9.5	2.4	1.1	.55	.42	.24
30	1.1	60	4.0	24	---	23	11	2.4	.99	.54	.38	2.1
31	.72	---	3.8	18	---	20	---	2.4	---	.55	.34	---
TOTAL	13.61	124.80	325.9	525.8	1137	1880	296.5	133.1	47.89	20.59	12.37	8.58
MEAN	.44	4.16	10.5	17.0	40.6	60.6	9.88	4.29	1.60	.66	.40	.29
MAX	2.4	60	126	85	147	181	21	9.0	2.4	1.1	.54	2.1
MIN	.15	.21	1.2	2.1	13	20	5.6	2.4	.99	.44	.29	.10
AC-FT	27	248	646	1040	2260	3730	588	264	95	41	25	17
CAL YR 1982	TOTAL	3680.27	MEAN	10.1	MAX	304	MIN	.15	AC-FT	7300		
WTR YR 1983	TOTAL	4526.14	MEAN	12.4	MAX	181	MIN	.10	AC-FT	8980		

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 mi².

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WSP 1395: 1953(M). WDR CA-79-2: 1978.

GAGE.--Water-stage recorder. Concrete control since Dec. 4, 1962. Datum of gage is 169.98 ft, National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1971, at site 0.6 mi downstream at different datum.

REMARKS.--Records fair except those for period of no gage height record Jan. 29 to Mar. 2 which are poor. No regulation; pumping for irrigation above station during periods of low flow.

AVERAGE DISCHARGE.--31 years, 20.1 ft³/s, 14,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,980 ft³/s Jan. 31, 1963, gage height, 14.40 ft site and datum then in use, from rating curve extended above 2,200 ft³/s on basis of computed discharge at gage height 13.16 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	1015	1,310	5.18	Feb. 27	Unknown	Unknown	Unknown
Nov. 30	0200	1,850	6.27	Mar. 2	Unknown	Unknown	Unknown
Dec. 22	1430	*3,500	9.29	Mar. 13	0645	3,140	8.66
Jan. 24	0115	2,450	7.40	Mar. 17	0415	1,140	4.83
Jan. 26	1945	2,420	7.34	Mar. 23	1945	1,680	5.95
Feb. 7	Unknown	Unknown	Unknown				

Minimum daily, 2.5 ft³/s Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	5.7	34	19	160	340	324	65	16	13	9.5	7.6
2	2.5	5.1	17	17	160	1000	315	43	16	14	9.5	7.6
3	2.7	5.2	13	18	130	282	301	40	15	13	9.4	7.4
4	3.0	5.3	11	19	99	254	282	37	15	12	9.0	7.1
5	3.1	5.2	10	15	155	203	283	71	15	12	8.8	6.9
6	3.3	5.3	9.2	13	330	166	271	47	15	12	8.8	6.6
7	3.5	4.8	8.3	13	660	227	276	38	15	13	9.1	6.5
8	3.3	9.2	7.5	12	350	146	267	36	14	13	8.9	6.5
9	3.5	13	7.6	12	300	136	259	32	14	12	8.9	6.3
10	3.8	16	8.9	11	230	207	247	29	14	12	8.7	6.3
11	3.5	12	7.8	11	195	164	250	28	14	11	8.5	6.3
12	3.9	9.0	7.5	11	340	382	210	25	14	10	8.5	6.3
13	3.8	7.0	9.2	11	320	1090	200	25	14	10	8.5	6.0
14	3.8	5.6	8.5	11	200	242	192	24	14	10	8.4	6.0
15	3.7	5.4	8.4	11	170	183	188	23	14	10	8.2	6.1
16	4.0	5.4	8.5	23	135	268	182	22	14	10	8.9	6.0
17	4.2	35	27	12	110	502	175	21	14	10	8.0	6.1
18	4.2	420	9.0	122	350	311	190	21	14	10	8.0	6.1
19	3.5	74	8.4	54	200	234	200	20	14	9.9	13	6.2
20	3.4	35	34	21	150	436	215	19	14	10	10	6.2
21	3.3	18	520	17	120	462	175	19	14	9.8	8.5	6.2
22	3.2	58	999	590	129	747	154	18	14	9.2	8.3	6.3
23	3.8	25	173	157	170	982	220	18	14	9.1	8.5	6.3
24	3.7	12	67	649	150	1130	210	17	14	9.1	8.5	6.3
25	71	11	43	82	510	480	200	17	13	9.4	8.0	6.3
26	52	11	35	583	230	405	140	17	13	9.3	7.9	6.4
27	8.0	13	31	548	500	478	160	17	13	9.8	7.9	6.4
28	5.9	85	26	149	270	367	290	17	13	9.8	7.9	6.4
29	5.4	103	23	429	---	352	74	16	13	9.7	7.9	10
30	35	465	22	300	---	343	81	16	13	9.6	8.1	50
31	9.8	---	21	220	---	340	---	16	---	9.5	7.9	---
TOTAL	270.7	1484.2	2214.8	4160	6823	12859	6531	854	423	331.2	270.0	240.7
MEAN	8.73	49.5	71.4	134	244	415	218	27.5	14.1	10.7	8.71	8.02
MAX	71	465	999	649	660	1130	324	71	16	14	13	50
MIN	2.5	4.8	7.5	11	99	136	74	16	13	9.1	7.9	6.0
AC-FT	537	2940	4390	8250	13530	25510	12950	1690	839	657	536	477
CAL YR 1982	TOTAL	21192.9	MEAN	58.1	MAX	2130	MIN	2.5	AC-FT	31381		
WTR YR 1983	TOTAL	36461.6	MEAN	99.9	MAX	1130	MIN	2.5	AC-FT	72320		

PACHECO CREEK BASIN

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, and 3.8 mi downstream from confluence of San Ramon and Las Trampas Creeks.

DRAINAGE AREA.--85.2 mi².

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

REVISED RECORDS.--WRD 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 Corps of Engineers datum.

REMARKS.--Records good except those for period of no gage height record, Apr. 30 to July 6, which are fair. Flow slightly regulated by Lafayette Reservoir 10 mi upstream, capacity, 4,240 acre-ft. Some small diversions for irrigation above station.

AVERAGE DISCHARGE.--15 years, 55.4 ft³/s, 40,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft³/s Jan. 5, 1982, gage height, 19.1 ft; minimum daily, 0.70 ft³/s Oct. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 850 ft³/s and maximum (*) from rating curve extended above 3,000 ft³/s on basis of slope-area measurement of peak flow:

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
Nov. 18	1015	3,640	8.16	Feb. 18	0715	2,090	6.50				
Nov. 30	0245	3,200	7.75	Feb. 27	0130	4,090	8.65				
Dec. 22	1530	6,960	11.74	Mar. 2	1130	5,700	10.39				
Jan. 24	0200	5,130	9.78	Mar. 13	0700	*8,900	13.89				
Jan. 26	2015	7,220	12.03	Mar. 23	2045	2,150	6.56				
Feb. 7	2300	3,580	8.11								

Minimum daily, 7.6 ft³/s Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	15	116	34	263	1140	367	105	28	21	18	14
2	8.4	14	40	31	265	2420	347	85	28	21	17	14
3	8.1	13	34	32	220	695	328	75	27	21	17	14
4	8.1	13	30	34	174	450	315	64	27	20	16	14
5	7.9	12	26	28	250	390	301	120	27	20	17	16
6	8.5	12	23	25	550	320	287	80	27	20	16	14
7	8.3	12	21	23	1610	390	274	66	27	19	17	13
8	8.1	33	20	21	826	515	265	61	27	20	16	13
9	7.6	54	19	20	300	184	257	54	27	18	15	13
10	7.7	44	20	20	225	281	253	52	26	18	15	13
11	7.8	19	21	20	196	218	248	48	26	19	16	13
12	7.9	15	20	20	426	570	245	46	26	18	16	14
13	8.0	12	23	19	376	2460	241	44	26	18	16	13
14	7.8	13	22	19	200	410	225	42	26	18	16	13
15	18	12	22	27	178	422	216	40	26	17	16	14
16	14	11	24	59	158	537	210	38	26	17	17	13
17	9.2	25	80	25	140	764	209	37	25	18	15	13
18	21	929	36	264	683	571	235	36	25	18	15	13
19	12	112	36	138	173	431	240	34	25	18	30	13
20	11	39	88	43	147	634	266	33	25	21	28	12
21	12	31	1230	34	141	565	207	32	25	18	29	13
22	12	106	2020	1070	124	725	194	32	25	17	23	13
23	13	50	303	324	277	910	347	31	24	17	16	13
24	13	30	140	1520	228	1100	337	30	24	18	15	14
25	100	20	85	245	1050	663	333	30	24	18	14	14
26	87	20	64	1690	389	532	225	29	23	18	15	13
27	20	40	56	1280	1080	606	245	29	23	17	15	15
28	14	163	50	405	854	480	490	29	22	17	14	14
29	17	238	45	645	---	433	135	29	22	18	14	14
30	90	840	40	370	---	410	142	28	21	17	14	224
31	23	---	37	300	---	398	---	28	---	17	20	---
TOTAL	599.1	2947	4791	8785	11503	20624	7984	1487	760	572	538	616
MEAN	19.3	98.2	155	283	411	665	266	48.0	25.3	18.5	17.4	20.5
MAX	100	929	2020	1690	1610	2460	490	120	28	21	30	224
MIN	7.6	11	19	19	124	184	135	28	21	17	14	12
AC-FT	1190	5850	9500	17430	22820	40910	15840	2950	1510	1130	1070	1220
CAL YR 1982	TOTAL	46182.3	MEAN	127	MAX	5170	MIN	7.6	AC-FT	91600		
WTR YR 1983	TOTAL	61206.1	MEAN	168	MAX	2460	MIN	7.6	AC-FT	121400		

PACHECO CREEK BASIN

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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 mi².

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 520 ft from topographic map.

REMARKS.--Records good except for those periods of no gage height record; Feb. 24 to Mar. 16, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--9 years, 0.38 ft³/s, 275 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 138 ft³/s Jan. 4, 1982, gage height, 2.41 ft, from rating curve extended above 12 ft³/s on basis of critical depth computation; no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 30 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 22	1315	41	2.06
Jan. 26	1900	35	1.97
Mar. 13	Unknown	*47	2.14

Minimum, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	1.2	.58	1.2	10	2.8	.76	.19	.08	.03	0
2		0	.69	.54	1.2	7.7	2.6	.67	.18	.08	.02	0
3		0	.53	.51	1.0	5.9	2.6	.70	.18	.06	0	0
4		0	.42	.48	.91	4.6	2.3	.67	.17	.05	0	0
5		0	.38	.44	1.2	3.5	2.0	.75	.15	.04	0	0
6		0	.35	.38	1.7	2.7	1.7	.64	.14	.04	0	0
7		0	.28	.37	6.8	3.3	1.5	.61	.13	.07	0	0
8		0	.25	.37	6.1	2.6	1.3	.60	.13	.11	0	0
9		.07	.25	.34	3.0	2.0	1.2	.56	.14	.10	0	0
10		.06	.24	.33	2.3	2.2	1.2	.56	.13	.07	0	0
11		.02	.22	.32	1.9	2.4	1.1	.49	.14	.06	0	0
12		0	.21	.30	2.5	2.2	1.1	.44	.13	.06	0	0
13		0	.19	.30	2.4	14	1.0	.44	.11	.06	0	0
14		0	.18	.30	1.9	7.8	.93	.41	.09	.05	0	0
15		0	.16	.30	1.7	4.5	.85	.37	.09	.05	0	0
16		.02	.18	.34	1.4	4.3	.78	.34	.08	.05	0	0
17		.04	.20	.33	1.3	5.6	.70	.32	.08	.05	0	0
18		1.9	.18	1.1	3.7	5.1	.71	.30	.08	.06	0	0
19		.43	.15	.67	1.9	3.8	.78	.29	.08	.07	0	0
20		.21	.35	.53	1.8	5.5	.66	.26	.08	.08	0	0
21		.15	5.5	.48	1.6	4.6	.60	.25	.08	.06	0	0
22		.18	12	5.7	1.5	5.0	.55	.23	.07	.06	0	0
23		.19	3.8	2.7	1.9	5.6	.75	.22	.07	.06	0	0
24		.14	1.8	7.2	3.0	6.7	.73	.21	.07	.06	0	0
25		.11	1.2	1.7	4.2	4.9	.64	.22	.05	.08	0	0
26		.11	.94	7.7	2.6	4.0	.51	.20	.05	.08	0	0
27		.10	.77	9.2	4.1	4.2	.58	.19	.06	.07	0	0
28		.22	.65	3.1	6.4	3.5	2.1	.18	.07	.06	0	.06
29		.31	.63	2.5	---	3.2	.95	.19	.07	.06	0	.01
30		6.4	.63	1.9	---	3.0	.89	.19	.06	.05	0	0
31		---	.61	1.5	---	2.9	---	.19	---	.04	0	---
TOTAL	0	10.66	35.14	52.51	71.21	147.3	36.11	12.45	3.15	1.97	0.05	0.07
MEAN	0	.36	1.13	1.69	2.54	4.75	1.20	.40	.10	.064	.002	.002
MAX	0	6.4	12	9.2	6.8	14	2.8	.76	.19	.11	.03	.06
MIN	0	0	.15	.30	.91	2.0	.51	.18	.05	.04	0	0
AC-FT	0	21	70	104	141	292	72	25	6.2	3.9	.1	.1

CAL YR 1982 TOTAL 368.09 MEAN 1.01 MAX 34 MIN 0 AC-FT 731
WTR YR 1983 TOTAL 370.62 MEAN 1.02 MAX 14 MIN 0 AC-FT 735

NAPA RIVER BASIN

11455900 NAPA RIVER AT CALISTOGA, CA

LOCATION.--Lat 38°34'38", long 122°34'49", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on right bank at end of Pine Street in Calistoga, 200 ft downstream from bridge on State Highway 29, and 0.6 mi downstream from Cyrus Creek.

DRAINAGE AREA.--21.9 mi².

PERIOD OF RECORD.--October 1975 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 360 ft from topographic map.

REMARKS.--Records good. Flow slightly regulated by Kimball Creek Reservoir 3.7 mi upstream, capacity, 344 acre-ft. No diversion above station.

AVERAGE DISCHARGE.--8 years, 32.5 ft³/s, 23,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft³/s Jan. 23, 1983, gage height, 17.83 ft; no flow many days in 1976, 1977, 1978, and 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 28	1800	1,250	8.93	Feb. 25	1315	1,770	10.41
Dec. 21	1445	1,520	9.75	Feb. 28	2100	3,440	15.17
Jan. 23	2345	*4,420	17.83	Mar. 13	0200	3,360	14.92
Jan. 26	1945	3,130	14.27	Mar. 17	1245	1,010	8.24
Feb. 7	2000	1,100	8.51				

Minimum daily, 0.10 ft³/s Oct. 10-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.53	127	18	96	919	91	108	6.7	2.0	.55	.31
2	.12	.53	75	16	74	804	76	71	6.3	2.1	.55	.26
3	.11	.56	53	16	58	530	61	57	6.0	1.9	.52	.22
4	.11	.64	39	15	44	232	49	49	5.7	1.8	.46	.20
5	.11	.69	31	13	42	186	37	60	5.4	1.7	.46	.17
6	.12	.72	25	12	218	156	23	53	5.2	1.6	.43	.16
7	.14	.74	22	11	501	337	19	42	4.8	1.5	.42	.17
8	.13	.97	19	11	458	187	17	36	4.7	1.5	.37	.21
9	.12	.95	17	9.8	221	134	14	32	4.6	1.5	.40	.21
10	.10	1.0	15	8.6	155	105	14	29	4.3	1.3	.42	.18
11	.10	.95	14	7.8	120	79	14	26	4.1	1.1	.39	.19
12	.10	.97	13	7.0	575	375	14	24	3.9	1.1	.37	.18
13	.10	.97	12	7.1	310	1340	12	22	3.7	1.0	.32	.17
14	.12	.97	11	6.8	164	243	9.1	20	3.7	.92	.31	.17
15	.11	.98	11	6.6	129	142	9.4	18	3.4	.87	.27	.16
16	.11	1.0	28	6.4	105	138	8.6	17	2.9	.86	.26	.15
17	.12	4.4	125	5.9	80	423	8.2	16	2.6	.65	.23	.16
18	.11	242	52	74	249	212	8.2	15	2.8	.83	.24	.16
19	.11	46	35	70	137	131	10	14	2.9	.90	.61	.16
20	.11	18	185	35	98	115	11	13	2.9	.90	.37	.16
21	.12	13	508	25	75	98	8.3	11	2.8	.81	.29	.16
22	.20	50	623	194	61	158	6.9	11	2.7	.74	.28	.17
23	.81	75	241	408	67	233	44	11	2.5	.80	.27	.56
24	.52	30	111	883	79	321	79	10	2.5	.73	.25	.23
25	12	18	75	198	599	177	84	9.6	2.5	.73	.25	.17
26	1.3	14	57	1260	290	123	37	9.1	2.3	.72	.26	.17
27	.43	16	44	590	512	214	94	8.4	2.3	.68	.26	.18
28	.42	265	34	235	1170	127	93	8.0	2.3	.65	.23	.19
29	.45	320	28	320	---	103	69	7.7	2.1	.66	.21	.19
30	.48	372	23	230	---	105	112	7.3	2.0	.61	.24	.38
31	.50	---	20	160	---	129	---	6.8	---	.56	.28	---
TOTAL	19.49	1496.57	2673	4860.0	6687	8576	1132.7	821.9	110.6	33.72	10.77	6.15
MEAN	.63	49.9	86.2	157	239	277	37.8	26.5	3.69	1.09	.35	.20
MAX	12	372	623	1260	1170	1340	112	108	6.7	2.1	.61	.56
MIN	.10	.53	11	5.9	42	79	6.9	6.8	2.0	.56	.21	.15
AC-FT	39	2970	5300	9640	13260	17010	2250	1630	219	67	21	12
CAL YR 1982	TOTAL	20655.07	MEAN	56.6	MAX	1610	MIN	.10	AC-FT	40969		
WTR YR 1983	TOTAL	26427.90	MEAN	72.4	MAX	1340	MIN	.10	AC-FT	52420		

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 mi².

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 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.--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.--47 years, 99.0 ft³/s, 71,730 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s Dec. 22, 1955, gage height, 18.17 ft present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 24	0330	6,800	13.65	Mar. 1	0130	10,300	16.50
Jan. 26	2115	9,500	15.92	Mar. 13	0600	*10,700	16.79
Feb. 25	1645	4,520	11.37				

Minimum daily, 1.6 ft³/s Sept. 14, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	9.0	427	82	504	4850	321	315	30	9.4	5.4	3.5
2	2.2	6.9	263	81	320	2990	271	224	29	11	5.4	3.3
3	2.2	6.8	192	80	271	1930	234	178	28	10	5.3	2.9
4	2.1	6.8	139	76	231	1000	200	150	28	11	3.7	3.0
5	2.0	6.8	110	72	229	790	170	191	27	11	3.8	3.0
6	1.7	6.8	92	67	750	623	141	187	25	10	4.2	2.9
7	1.8	6.8	83	64	1630	1220	123	140	25	10	3.8	2.8
8	2.3	7.0	76	62	2060	775	111	120	22	9.6	2.3	2.7
9	2.3	7.8	70	60	970	569	101	107	22	8.7	2.1	2.3
10	2.2	9.2	65	54	606	453	95	98	22	8.3	2.6	2.1
11	2.2	8.0	61	52	490	361	92	91	26	7.4	3.2	2.1
12	2.3	7.8	60	48	1490	1010	88	86	25	8.8	3.4	1.8
13	2.3	7.8	56	52	1110	5480	80	83	23	8.9	3.3	1.7
14	2.6	7.4	48	52	666	1190	72	78	18	6.3	2.8	1.6
15	2.8	7.3	48	46	522	678	72	74	18	5.4	2.2	1.8
16	2.8	7.3	65	46	430	652	69	71	18	5.5	2.5	1.7
17	2.8	12	323	43	337	1590	69	67	16	6.6	2.9	1.9
18	3.3	786	160	238	833	1070	69	62	15	6.3	3.0	2.2
19	3.8	176	115	255	550	653	71	61	15	6.1	3.7	2.2
20	3.3	73	261	131	423	532	76	56	15	7.2	4.2	2.2
21	3.3	51	1420	101	343	463	67	49	15	7.8	4.9	2.3
22	4.6	109	2100	600	287	717	63	47	15	7.2	4.4	2.0
23	6.4	237	1110	717	280	761	153	47	15	6.6	3.6	2.2
24	11	96	439	2800	306	1160	195	43	14	6.8	3.1	2.6
25	37	67	238	677	1800	751	257	43	14	6.7	3.0	3.0
26	48	50	188	3630	1250	547	143	41	14	6.1	2.9	2.6
27	13	57	151	2850	1970	853	224	37	14	5.4	2.8	2.1
28	9.7	656	127	978	3630	547	266	35	13	3.6	3.1	1.8
29	13	970	106	1240	---	434	209	34	12	3.3	2.6	1.6
30	51	1210	94	876	---	380	271	34	11	2.8	2.9	2.7
31	21	---	86	629	---	433	---	33	---	3.5	3.3	---
TOTAL	267.2	4669.5	8773	16759	24288	35462	4373	2882	584	227.3	106.4	70.6
MEAN	8.62	156	283	541	867	1144	146	93.0	19.5	7.33	3.43	2.35
MAX	51	1210	2100	3630	3630	5480	321	315	30	11	5.4	3.5
MIN	1.7	6.8	48	43	229	361	63	33	11	2.8	2.1	1.6
AC-FT	530	9260	17400	33240	48180	70340	8670	5720	1160	451	211	140
CAL YR 1982	TOTAL	70780.4	MEAN	194	MAX	4850	MIN	1.1	AC-FT	140400		
WTR YR 1983	TOTAL	98462.0	MEAN	270	MAX	5480	MIN	1.6	AC-FT	195300		

NAPA RIVER BASIN

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, and 5 mi north of Napa.

DRAINAGE AREA.--218 mi².

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. 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.--27 years, 211 ft³/s, 152,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,900 ft³/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 discharge above base of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 22	2015	7,070	16.11	Feb. 25	1945	8,950	17.19
Jan. 24	0745	11,300	19.50	Mar. 1	1015	*19,200	24.73
Jan. 27	0600	18,600	24.36	Mar. 13	1445	17,100	23.43
Feb. 8	0315	8,260	17.19	Mar. 17	1900	5,070	14.00

Minimum daily, 5.9 ft³/s Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	20	1110	219	1490	14400	901	723	80	30	12	8.6
2	7.7	15	669	195	1120	8100	763	546	76	32	12	9.2
3	8.1	13	488	183	946	5570	646	464	71	28	11	8.8
4	7.3	13	357	170	782	3140	551	406	71	32	11	8.5
5	6.8	13	286	159	871	2370	471	420	69	29	11	8.3
6	6.6	12	233	148	1720	1860	411	461	65	27	11	8.0
7	6.4	12	195	141	3530	2540	369	364	62	25	10	7.8
8	5.9	12	172	131	5910	1840	355	312	60	24	10	7.6
9	6.2	13	148	120	2790	1400	333	276	58	23	9.8	7.4
10	6.0	14	131	107	1810	1120	302	252	56	22	9.5	7.4
11	6.1	13	115	102	1350	930	281	230	58	21	9.5	7.4
12	6.1	13	110	98	3380	1680	256	218	55	20	9.5	7.2
13	6.2	12	104	95	2760	13200	223	198	55	19	9.0	7.2
14	6.4	13	91	95	1760	4270	194	184	52	18	8.8	7.1
15	6.5	12	87	92	1360	2430	181	170	50	18	8.6	7.0
16	7.0	12	99	92	1180	2020	176	160	47	17	8.6	7.0
17	7.1	13	633	88	965	3220	168	150	45	17	8.4	7.0
18	7.2	1310	356	496	1680	2920	166	144	45	16	8.4	6.8
19	6.9	425	259	853	1280	1890	164	132	44	16	9.2	6.8
20	6.4	143	279	391	1020	1540	179	125	43	16	10	6.8
21	7.0	79	2430	282	874	1430	157	115	43	15	11	6.8
22	7.6	89	4180	1110	763	1920	144	112	42	15	10	6.7
23	7.9	415	2650	1250	723	1930	297	107	42	15	9.8	6.7
24	8.1	185	1220	7140	834	2980	455	99	41	14	9.2	6.6
25	15	105	878	2220	4020	2040	583	98	41	14	8.6	6.6
26	57	75	687	5720	3680	1500	356	96	41	14	8.3	6.4
27	21	74	551	12100	5210	2130	407	98	40	13	8.0	6.4
28	14	627	436	3450	8390	1500	705	93	39	13	7.6	6.3
29	13	2390	353	3310	---	1230	627	92	38	13	7.4	6.2
30	36	2940	298	2620	---	1070	686	88	35	12	7.4	16
31	30	---	252	1830	---	1080	---	86	---	12	7.6	---
TOTAL	351.9	9082	19857	45007	62198	95250	11507	7019	1564	600	292.2	226.6
MEAN	11.4	303	641	1452	2221	3073	384	226	52.1	19.4	9.43	7.55
MAX	57	2940	4180	12100	8390	14400	901	723	80	32	12	16
MIN	5.9	12	87	88	723	930	144	86	35	12	7.4	6.2
AC-FT	698	18010	39390	89270	123400	188900	22820	13920	3100	1190	580	449

CAL YR 1982	TOTAL	182478.3	MEAN	500	MAX	13200	MIN	5.6	AC-FT	361900
WTR YR 1983	TOTAL	252954.7	MEAN	693	MAX	14400	MIN	5.9	AC-FT	501700

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 micromhos Sept. 1, 1981; minimum recorded, 81 micromhos 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 1982 TO SEPTEMBER 1983

						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-HF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)						
NOV 17...	1000	13	436	7.7	10.0	765	2.0	11.5	102	71	300
JAN 12...	1145	96	302	7.6	9.0	770	3.2	11.1	95	55	54
MAR 09...	1115	1380	175	7.5	14.0	760	40	9.4	91	150	520
MAY 18...	1245	140	274	7.7	19.0	760	2.4	9.8	106	83	310
JUL 20...	1300	16	371	8.0	22.0	765	2.4	9.8	112	K50	120
SEP 07...	1250	8.0	422	8.1	20.5	755	1.5	7.7	86	46	330
						PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)						
NOV 17...	160	28	27	23	24	24	.8	2.4	135	35	23
JAN 12...	120	9	22	16	16	22	.6	2.0	--	25	11
MAR 09...	77	8	15	9.5	8.1	18	.4	1.7	69	15	5.1
MAY 18...	120	6	21	16	14	20	.6	1.9	--	21	8.4
JUL 20...	170	8	27	24	18	19	.6	2.2	158	26	13
SEP 07...	180	2	29	26	20	19	.7	2.5	178	28	15
						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)
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 CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)						
NOV 17...	.30	34	239	250	.33	1.2	.08	1.3	.15	.15	.15
JAN 12...	.20	37	210	200	.29	1.6	<.06	.90	.08	.08	.09
MAR 09...	.10	30	129	130	.18	.46	.08	.50	.13	.06	.04
MAY 18...	.10	35	180	190	.24	.60	.08	.70	.13	.10	.08
JUL 20...	.20	32	227	240	.31	.39	.08	.30	.07	.07	.02
SEP 07...	.20	34	256	260	.35	.51	.11	.30	.06	.04	.06

See footnote at end of table.

NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 17...	1000	10	2	77	<.5	<1	<1	<3	1	13	1
JAN 12...	1145	30	1	56	.5	<1	<1	<3	1	21	<1
MAY 18...	1245	50	2	54	<.5	<1	<1	<3	2	47	<1
SEP 07...	1250	<10	2	85	<.5	<1	<1	<3	2	7	2

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 17...	61	17	.1	20	2	<1	<1	200	<6	32
JAN 12...	32	19	<.1	<10	3	<1	<1	150	<6	12
MAY 18...	28	16	<.1	<10	2	1	<1	150	<6	11
SEP 07...	40	9	<.1	<10	5	<1	<1	200	<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.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 17...	1030	13	9.5	3	.11	--
JAN 12...	1130	96	9.0	6	1.6	--
MAR 09...	1405	1350	14.0	81	295	72
MAY 18...	1330	139	19.0	8	3.0	--
JUL 20...	1245	16	22.0	8	.35	--
SEP 07...	1045	8.0	20.5	4	.09	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	TEMPER- ATURE (DEG C)	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
SEP 07...	1400	20.5	8.0	1	2	9	30
DATE	1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM	
SEP 07...	45	59	73	86	96	100	

11458100 MILLIKEN CREEK NEAR NAPA, CA

LOCATION.--Lat 38°20'19", long 122°16'06", in Yajome Grant, Napa County, Hydrologic Unit 18050002, on right bank at upstream side of Hedgeside Road bridge, 3.0 mi northwest of town of Napa.

DRAINAGE AREA.--17.3 mi².

PERIOD OF RECORD.--October 1970 to September 1983 (discontinued).

REVISED RECORDS.--WDR CA-79-2: 1971, 1973-75, 1978.

GAGE.--Water-stage recorder. Datum of gage is 37.68 ft National Geodetic Vertical Datum of 1929 (levels by county of Napa).

REMARKS.--Records good. Flow regulated by Milliken Reservoir, capacity, 2,000 acre-ft and by several small lakes and diversion dams on the Silverado Golf Course; diversions above station for irrigation of about 500 acres.

AVERAGE DISCHARGE.--13 years, 23.2 ft³/s, 16,810 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,440 ft³/s Jan. 26, 1983, gage height, 10.14 ft, from rating curve extended above 2,780 ft³/s; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	0715	856	4.33	Feb. 8	0100	1,510	5.79
Nov. 28	1815	1,250	5.20	Feb. 12	0415	690	3.92
Dec. 22	1400	1,380	5.50	Feb. 25	1415	2,060	6.90
Jan. 23	2400	2,320	7.40	Feb. 28	2330	1,750	6.30
Jan. 26	1845	*3,440	10.14	Mar. 13	0345	2,810	8.46

Minimum daily, 0.08 ft³/s Sept. 16, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	3.6	106	14	78	664	38	54	1.9	1.9	1.1	.18
2	2.4	3.0	57	13	61	577	29	39	1.8	2.0	1.2	.26
3	1.3	2.5	37	12	48	308	23	29	2.6	1.9	1.2	.40
4	.90	2.3	26	12	37	166	17	24	1.7	1.9	1.1	.68
5	1.5	2.2	20	11	105	163	15	44	1.5	2.5	1.2	.40
6	1.5	3.1	16	11	254	105	16	37	1.9	2.8	1.2	.24
7	1.6	3.0	17	10	511	174	14	23	1.6	2.6	1.2	.11
8	1.6	2.9	12	9.9	664	87	14	20	1.7	2.8	1.5	.11
9	1.3	3.3	5.3	11	205	72	13	16	1.7	2.3	1.3	.10
10	1.0	3.7	7.4	6.5	102	60	12	16	1.8	1.8	1.1	.72
11	.93	2.4	7.4	7.1	73	51	12	11	2.1	1.7	1.0	.83
12	.79	2.4	7.3	7.5	412	362	12	12	1.9	1.5	.56	.69
13	.98	3.2	7.5	6.1	207	1180	10	12	1.4	1.5	.56	.10
14	.90	1.7	6.8	6.0	98	219	9.6	11	1.7	1.3	.58	.28
15	.98	.76	6.4	3.6	76	103	8.8	9.7	4.7	1.3	.75	.12
16	.83	.85	9.2	3.9	63	125	8.4	12	4.5	1.3	.63	.08
17	.73	1.4	67	3.6	47	162	8.2	7.4	2.7	1.4	.61	.44
18	1.2	213	25	79	138	121	9.0	9.1	.43	1.3	1.2	.99
19	1.0	20	20	54	68	80	11	7.3	3.9	1.3	1.9	3.0
20	1.8	11	31	26	53	78	13	6.7	4.4	1.7	6.4	.38
21	1.8	7.9	266	20	43	79	10	6.6	4.4	1.4	6.6	.08
22	1.3	15	621	204	37	154	8.6	6.3	4.5	1.6	2.6	2.0
23	1.2	20	263	245	43	161	44	6.2	4.5	1.6	1.2	2.1
24	2.0	11	99	747	62	229	89	7.3	2.7	1.5	1.2	4.0
25	20	8.1	63	180	613	116	57	3.8	2.2	1.5	1.0	6.7
26	9.9	6.8	48	901	293	81	29	2.8	2.1	1.3	.79	7.2
27	4.2	6.5	37	816	385	168	43	2.6	2.2	1.3	.84	5.9
28	3.2	172	25	229	559	84	84	2.2	2.7	1.5	.81	6.4
29	3.4	188	21	290	---	63	70	2.1	2.2	1.4	.54	5.6
30	7.9	457	18	171	---	56	76	2.2	2.0	1.4	.14	9.8
31	4.9	---	16	104	---	62	---	2.2	---	1.4	.13	---
TOTAL	89.14	1178.61	1968.3	4214.2	5335	6110	803.6	444.5	75.43	52.7	42.14	59.89
MEAN	2.88	39.3	63.5	136	191	197	26.8	14.3	2.51	1.70	1.36	2.00
MAX	20	457	621	901	664	1180	89	54	4.7	2.8	6.6	9.8
MIN	.73	.76	5.3	3.6	37	51	8.2	2.1	.43	1.3	.13	.08
AC-FT	177	2340	3900	8360	10580	12120	1590	882	150	105	84	119
CAL YR 1982	TOTAL	16982.72	MEAN	46.5	MAX	1820	MIN	0	AC-FT	33690		
WTR YR 1983	TOTAL	20373.51	MEAN	55.8	MAX	1180	MIN	.08	AC-FT	40410		

NAPA RIVER BASIN

11458300 NAPA CREEK AT NAPA, CA

LOCATION.--Lat 38°18'07", long 122°18'10", in Napa Grant, Napa County, Hydrologic Unit 18050002, on left bank 150 ft upstream from bridge on State Highway 29 in town of Napa, 0.6 mi downstream from confluence of Redwood and Browns Creeks.

DRAINAGE AREA.--14.9 mi².

PERIOD OF RECORD.--October 1970 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 32.60 ft National Geodetic Vertical Datum of 1929 (levels by county of Napa).

REMARKS.--Records fair. No regulation; small diversions above station for domestic use.

AVERAGE DISCHARGE.--13 years, 20.4 ft³/s, 14,780 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,190 ft³/s Jan. 4, 1982, gage height, 12.76 ft, from rating curve extended above 1,950 ft³/s; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	0715	1,430	8.41	Jan. 26	1815	1,980	10.06
Nov. 28	1815	2,030	10.20	Feb. 8	0115	990	6.73
Dec. 21	1545	1,100	7.16	Feb. 25	1445	2,350	11.13
Jan. 18	1745	791	5.92	Mar. 1	0030	1,130	7.27
Jan. 23	2400	1,760	9.44	Mar. 13	0415	*2,490	11.52

Minimum daily, 0.02 ft³/s Oct. 4-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	1.1	47	11	60	496	53	40	4.2	.97	.40	.30
2	.03	.57	26	10	52	411	46	32	3.9	.87	.40	.20
3	.03	.35	19	8.1	44	235	40	28	3.9	.78	.40	.17
4	.02	.30	14	8.6	36	173	34	24	3.9	.78	.36	.17
5	.02	.27	11	8.4	113	249	30	41	3.7	.70	.28	.17
6	.04	.34	9.6	8.0	256	171	27	29	3.2	.63	.28	.15
7	.04	.25	8.1	7.7	362	235	25	22	2.8	.45	.25	.15
8	.04	.25	6.5	7.1	422	133	22	19	2.8	.45	.25	.16
9	.04	.33	5.9	6.8	174	102	21	17	2.8	.45	.25	.17
10	.05	.50	5.0	6.2	109	82	19	16	2.6	.45	.25	.16
11	.06	.21	4.4	5.9	83	66	17	15	2.6	.45	.28	.12
12	.05	.19	4.1	5.3	263	380	16	13	2.6	.45	.26	.11
13	.04	.19	4.0	5.1	149	900	16	13	1.9	.45	.26	.12
14	.03	.19	3.5	5.0	93	224	14	12	1.6	.40	.26	.11
15	.03	.19	3.3	5.0	84	143	13	10	1.2	.40	.28	.16
16	.03	.19	3.7	6.1	71	154	13	10	1.1	.40	.30	.73
17	.03	3.2	32	4.8	56	219	12	10	1.1	.40	.19	.16
18	.04	345	11	161	124	159	13	8.8	1.1	.40	.25	.15
19	.04	21	7.8	53	63	103	17	8.1	1.1	.40	1.5	.15
20	.04	7.8	13	23	53	104	14	7.5	1.1	.40	.45	.11
21	.04	5.0	217	18	46	86	11	7.2	1.1	.40	.27	.14
22	.06	12	305	143	41	200	11	6.6	1.2	.40	.19	.11
23	.06	19	105	202	48	181	52	6.6	1.1	.40	.16	.16
24	1.2	7.9	50	432	52	216	58	5.9	.97	.40	.17	.16
25	31	5.4	33	111	641	134	32	5.9	.97	.40	.17	.17
26	5.1	4.4	25	632	261	104	20	5.9	.97	.40	.17	.15
27	.87	4.1	21	431	300	214	31	5.3	.97	.40	.17	.13
28	.37	259	17	167	515	110	57	4.7	.97	.40	.17	.11
29	3.2	317	15	175	---	84	44	4.4	.97	.40	.17	.13
30	6.8	359	13	111	---	72	63	4.4	.97	.40	.17	2.0
31	2.2	---	12	78	---	70	---	4.4	---	.40	.23	---
TOTAL	51.63	1375.22	1051.9	2856.1	4571	6210	841	436.7	59.39	15.08	9.19	6.98
MEAN	1.67	45.8	33.9	92.1	163	200	28.0	14.1	1.98	.49	.30	.23
MAX	31	359	305	632	641	900	63	41	4.2	.97	1.5	2.0
MIN	.02	.19	3.3	4.8	36	66	11	4.4	.97	.40	.16	.11
AC-FT	102	2730	2090	5670	9070	12320	1670	866	118	30	18	14

CAL YR 1982	TOTAL	15507.56	MEAN	42.5	MAX	1870	MIN	.02	AC-FT	30760
WTR YR 1983	TOTAL	17484.19	MEAN	47.9	MAX	900	MIN	.02	AC-FT	34680

11458350 TULUCAY CREEK AT NAPA, CA

LOCATION.--Lat 38°17'09", long 122°16'29", in Tulucay Grant, Napa County, Hydrologic Unit 18050002, on left bank 150 ft downstream from bridge on State Highways 12 and 29 in Napa.

DRAINAGE AREA.--12.6 mi².

PERIOD OF RECORD.--October 1971 to September 1983 (discontinued).

REVISED RECORDS.--WDR CA-79-2: 1973 (P), 1975 (P), 1978 (P).

GAGE.--Water-stage recorder. Datum of gage is 3.65 ft National Geodetic Vertical Datum of 1929 (levels by county of Napa).

REMARKS.--Records fair. No regulation; some small diversions above station for irrigation of about 30 acres.

AVERAGE DISCHARGE.--12 years, 12.6 ft³/s, 9,130 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,360 ft³/s, Jan. 4, 1982 and Feb. 25, 1983, gage height, 7.38 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	0200	971	5.33	Feb. 8	0030	455	4.13
Dec. 22	1315	981	5.35	Feb. 25	1400	*2,360	7.38
Jan. 23	2215	815	5.01	Mar. 1	0315	1,200	5.75
Jan. 26	1900	1,360	6.01	Mar. 13	0530	1,590	6.37

Minimum, no flow Oct. 20-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	1.2	61	5.2	42	561	22	13	1.4	.29	.25	.53
2	.12	1.0	37	3.9	36	413	19	10	1.3	.28	.26	.58
3	.12	.83	26	3.4	31	175	17	8.4	1.3	.26	.24	.58
4	.09	.77	22	3.2	27	118	15	7.2	1.2	.26	.25	.53
5	.09	.76	19	3.0	54	88	13	6.0	1.2	.25	.25	.53
6	.09	.75	17	2.7	130	76	12	5.0	1.0	.22	.25	.58
7	.09	.71	15	2.6	240	123	11	4.2	.94	.22	.25	.53
8	.07	.61	13	2.6	224	63	9.6	3.7	.86	.22	.36	.53
9	.06	.65	9.6	2.4	96	48	8.3	3.3	.75	.21	.36	.48
10	.05	.60	8.8	2.2	58	39	7.4	3.0	.71	.18	.25	.48
11	.04	.49	8.1	2.1	45	31	6.7	2.8	.65	.24	.27	.43
12	.05	.49	7.9	2.0	132	182	6.1	2.6	.67	.21	.27	.43
13	.04	.49	7.3	2.0	92	707	5.6	2.4	.70	.17	.27	.43
14	.04	.45	6.3	1.9	56	152	5.3	2.3	.68	.18	.28	.43
15	.16	.43	5.1	1.9	41	75	4.9	2.2	.65	.19	.29	.39
16	.06	.43	4.4	2.2	33	84	4.5	2.1	.59	.18	.26	.39
17	.05	1.9	4.9	1.9	26	132	4.3	2.4	.58	.19	.23	.39
18	.04	109	4.3	25	81	136	4.1	2.3	.58	.18	.26	.39
19	.04	24	4.1	13	38	72	3.8	2.1	.58	.19	1.2	.39
20	0	11	4.8	8.3	29	76	3.7	2.0	.53	.17	.32	.35
21	0	7.7	60	6.3	24	69	3.5	2.0	.52	.20	.39	.35
22	0	17	279	89	21	132	3.5	2.0	.53	.22	.43	.39
23	0	21	92	139	29	117	12	2.0	.54	.22	.48	.39
24	1.5	12	36	194	32	131	10	1.9	.55	.23	.48	.43
25	16	8.7	22	68	608	79	14	1.7	.46	.24	.48	.43
26	5.9	6.8	16	366	210	57	13	1.3	.42	.25	.43	.39
27	1.4	5.9	13	598	193	78	22	1.7	.35	.23	.43	.39
28	.93	72	11	141	318	46	34	1.5	.35	.25	.48	.35
29	1.9	197	11	122	---	34	24	1.5	.31	.25	.48	.38
30	3.1	268	11	77	---	29	16	1.4	.29	.24	.48	1.5
31	1.7	---	7.8	54	---	28	---	1.4	---	.25	.53	---
TOTAL	33.82	772.66	844.4	1945.8	2946	4151	335.3	105.4	21.19	6.87	11.46	14.37
MEAN	1.09	25.8	27.2	62.8	105	134	11.2	3.40	.71	.22	.37	.48
MAX	16	268	279	598	608	707	34	13	1.4	.29	1.2	1.5
MIN	0	.43	4.1	1.9	21	28	3.5	1.3	.29	.17	.23	.35
AC-FT	67	1530	1670	3860	5840	8230	665	209	42	14	23	29

CAL YR 1982	TOTAL	9783.56	MEAN	26.8	MAX	1610	MIN	0	AC-FT	19400
WTR YR 1983	TOTAL	11188.27	MEAN	30.7	MAX	707	MIN	0	AC-FT	22190

NOVATO CREEK BASIN

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.

DRAINAGE AREA.--17.6 mi².

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 National Geodetic Vertical Datum of 1929. Prior to Aug. 23, 1967, at site 0.6 mi upstream at different datum.

REMARKS.--Records good. Flow regulated by Stafford Lake beginning Dec. 1, 1951, capacity, 4,500 acre-ft since Oct. 18, 1954; contents, 2,370 acre-ft Sept. 30, 1982, and 2,420 acre-ft Sept. 30, 1983. Diversion from Stafford Lake for municipal water supply began Apr. 25, 1952, and amounted to 2,752 acre-ft for the current year. No diversion from Russian River into Stafford Lake during current year.

COOPERATION.--Record of diversions furnished by North Marin County Water District.

AVERAGE DISCHARGE (adjusted for diversions).--37 years, 14.7 ft³/s, 10,650 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft³/s Jan. 4, 1982, gage height, 14.46 ft; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,140 ft³/s Jan. 26, gage height, 11.20 ft; minimum daily, 0.04 ft³/s Nov. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.15	30	8.3	62	676	47	51	2.6	1.6	1.4	.78
2	.07	.09	11	7.6	60	754	38	42	3.1	1.6	1.4	.68
3	.08	.08	6.9	7.1	47	436	31	37	3.1	1.5	1.4	.58
4	.08	.06	3.3	6.5	37	243	26	32	3.0	1.5	1.5	.58
5	.06	.06	2.7	6.1	102	228	22	29	2.9	1.5	1.6	.57
6	.07	.06	3.2	5.8	268	167	19	23	2.8	2.1	1.6	.56
7	.06	.04	2.9	5.2	430	159	17	15	2.7	1.3	1.7	.60
8	.05	.13	2.6	5.0	403	103	15	16	2.5	1.3	1.3	.65
9	1.6	1.5	2.2	4.6	203	77	13	16	2.5	1.3	1.3	.57
10	1.5	.60	1.8	4.4	115	64	11	17	2.5	1.3	.86	.62
11	1.1	.12	1.6	4.2	84	51	9.6	14	2.3	1.2	.78	.60
12	.17	.08	1.5	4.0	205	242	8.0	13	2.2	1.2	.80	.66
13	.05	.08	1.3	3.8	157	906	7.5	11	2.2	1.2	.70	.59
14	.05	.07	2.0	3.6	101	239	6.7	9.2	2.0	1.2	.67	.54
15	.05	.07	3.2	3.6	76	128	6.1	7.8	2.1	1.2	.70	.65
16	.06	.07	6.2	3.7	59	123	5.7	6.8	2.0	1.2	.61	.60
17	.07	3.6	7.3	3.4	44	168	7.2	5.8	1.9	1.8	.69	.65
18	.06	64	3.3	101	116	127	9.4	5.4	1.9	1.3	.89	.66
19	.06	2.2	2.9	28	59	90	14	5.1	2.1	1.3	1.1	.66
20	.06	.68	16	14	44	85	10	4.8	2.2	1.2	.97	.49
21	.06	.40	80	10	36	76	7.5	4.6	2.4	1.4	.87	.50
22	.07	14	172	149	30	175	4.7	4.3	2.3	1.5	.87	.59
23	.09	5.7	63	361	41	166	96	4.1	2.3	1.5	.86	.91
24	2.4	1.1	30	709	36	239	36	3.7	2.3	1.6	.76	.64
25	38	.77	21	195	454	162	32	3.5	2.3	1.5	.69	.54
26	2.2	.62	16	950	269	115	26	3.3	2.3	1.5	.81	.55
27	.20	6.6	13	782	292	142	44	3.1	2.2	1.4	.81	.57
28	.09	50	11	287	726	91	41	2.9	1.8	1.4	.78	.58
29	6.4	84	9.3	235	---	71	36	2.8	1.3	1.4	.76	.57
30	6.7	227	8.0	123	---	64	116	2.7	1.4	1.4	.77	3.9
31	.33	---	7.7	84	---	64	---	2.5	---	1.4	1.4	---
TOTAL	61.93	463.93	542.9	4114.9	4556	6431	762.4	398.4	69.2	43.8	31.35	21.64
MEAN	2.00	15.5	17.5	133	163	207	25.4	12.9	2.31	1.41	1.01	.72
MAX	38	227	172	950	726	906	116	51	3.1	2.1	1.7	3.9
MIN	.05	.04	1.3	3.4	30	51	4.7	2.5	1.3	1.2	.61	.49
AC-FT	123	920	1080	8160	9040	12760	1510	790	137	87	62	43

CAL YR 1982 TOTAL 12112.39 MEAN 33.2 MAX 2850 MIN .04 AC-FT 24020
WTR YR 1983 TOTAL 17497.45 MEAN 47.9 MAX 950 MIN .04 AC-FT 34710

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, and 4 mi upstream from mouth.

DRAINAGE AREA.--18.1 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 7.97 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good. Flow regulated by Phoenix Lake 1.7 mi upstream, capacity, 612 acre-ft. Diversion on tributary above station by Marin Municipal Water District.

AVERAGE DISCHARGE.--32 years, 29.4 ft³/s, 21,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,000 ft³/s Jan. 4, 1982, gage height, 19.81 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	0700	1,570	12.39	Feb. 7	1930	1,140	10.99
Nov. 28	1800	1,310	11.59	Feb. 25	1230	2,450	14.54
Dec. 21	1500	2,070	13.71	Feb. 28	1300	1,690	12.20
Jan. 18	1515	1,280	11.27	Mar. 2	0515	1,210	10.67
Jan. 23	2300	1,900	11.40	Mar. 13	0330	*3,480	16.89
Jan. 26	1745	1,720	12.78	Mar. 23	1715	1,285	11.50

Minimum daily, 0.06 ft³/s Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	5.2	121	22	77	657	44	80	3.5	1.5	.61	.61
2	.13	1.0	51	21	85	963	33	62	3.5	1.4	.57	.50
3	.12	1.0	29	19	68	722	27	59	3.4	1.3	.54	.32
4	.13	1.0	22	17	59	500	25	54	3.5	1.8	.54	.28
5	.15	1.0	20	15	171	416	27	49	3.5	7.8	.57	.20
6	.16	1.2	20	14	504	339	26	30	5.5	1.2	.52	.21
7	.28	1.5	20	13	666	407	25	25	9.9	1.0	.54	.26
8	.38	3.5	17	12	455	273	23	23	3.7	.96	.47	.38
9	.13	9.1	12	7.1	214	215	17	25	3.5	.86	.53	.37
10	.14	2.9	9.4	5.9	116	176	11	25	3.5	.81	.61	.24
11	.16	.67	8.3	5.9	103	146	10	23	3.1	.84	.61	.24
12	.15	.80	7.8	5.5	307	610	9.6	18	3.1	.84	.47	.17
13	.15	1.2	7.3	5.1	195	1360	8.7	17	2.9	.84	.44	.19
14	.16	1.4	6.8	5.1	126	260	8.3	12	2.9	.71	.39	.20
15	.16	1.9	6.8	4.8	106	167	7.7	8.1	2.8	.84	.46	.19
16	.14	2.6	19	4.8	85	224	7.2	7.1	2.7	.84	.43	.14
17	.12	16	43	4.4	67	206	8.8	6.4	2.5	.84	.39	.06
18	.14	528	20	278	188	173	13	6.4	2.4	.84	.49	.07
19	.13	88	20	114	101	133	20	6.1	2.4	1.0	.58	.10
20	.14	23	93	74	80	130	13	5.1	2.4	.84	.75	.10
21	.15	9.9	567	65	69	125	8.7	4.7	2.4	.84	.60	.13
22	.14	96	675	389	65	313	5.6	4.5	2.2	.84	.56	.29
23	.14	85	268	416	83	432	109	5.2	2.1	.84	.41	.44
24	.83	38	120	508	79	457	59	10	2.1	.84	.28	.52
25	72	29	73	201	989	260	52	7.1	1.9	.84	.29	.49
26	9.3	18	59	620	564	189	43	3.9	1.8	.79	.28	.53
27	9.5	91	50	416	521	368	71	3.6	1.7	.77	.26	.64
28	.28	308	35	229	833	181	70	3.6	1.7	.67	.23	.69
29	11	393	24	207	---	113	57	6.4	1.4	.72	.20	3.0
30	20	449	23	119	---	82	143	9.7	1.4	.63	.29	7.5
31	5.2	---	24	85	---	63	---	4.0	---	.60	.49	---
TOTAL	131.73	2207.87	2471.4	3902.6	6976	10660	982.6	603.9	89.4	35.44	14.40	19.06
MEAN	4.25	73.6	79.7	126	249	344	32.8	19.5	2.98	1.14	.46	.64
MAX	72	528	675	620	989	1360	143	80	9.9	7.8	.75	7.5
MIN	.12	.67	6.8	4.4	59	63	5.6	3.6	1.4	.60	.20	.06
AC-FT	261	4380	4900	7740	13840	21140	1950	1200	177	70	29	38
CAL YR 1982	TOTAL	20894.84	MEAN	57.2	MAX	3840	MIN	.09	AC-FT	41460		
WTR YR 1983	TOTAL	28094.40	MEAN	77.0	MAX	1360	MIN	.06	AC-FT	55730		

ARROYO CORTE MADERA DEL PRESIDIO BASIN

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 mi².

PERIOD OF RECORD.--October 1965 to September 1973, May 1975 to current year.

REVISED RECORDS.--WDR CA-82-2; 1978-81 (P).

GAGE.--Water-stage recorder. Datum of gage is 1.85 ft National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--16 years, 7.74 ft³/s, 5,610 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft³/s Jan. 21, 1970, gage height, 7.52 ft; 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 above base of 220 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	0815	370	5.77	Feb. 25	1445	511	6.28
Nov. 29	2400	254	5.24	Feb. 28	2300	240	5.20
Dec. 22	1215	244	5.19	Mar. 5	1100	224	5.11
Jan. 22	0945	277	5.36	Mar. 13	0500	*821	7.22
Jan. 26	1730	464	6.12	Mar. 22	0745	220	5.07
Feb. 7	0045	400	5.36				

Minimum daily, 0.03 ft³/s Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	1.8	46	5.5	19	103	14	17	1.9	1.1	.72	.63
2	.09	1.3	24	5.1	18	93	12	13	1.8	1.1	.74	.63
3	.08	.91	15	4.8	13	106	11	11	1.9	1.0	.65	.54
4	.08	.77	12	4.6	11	74	9.4	8.9	1.8	.97	.70	.60
5	.07	.59	9.5	4.4	31	146	8.6	9.2	1.9	.89	.66	.68
6	.09	.64	8.1	4.2	237	90	7.7	7.1	1.7	.84	.72	.42
7	.09	.61	7.0	4.0	247	90	7.0	6.1	1.7	.78	.91	.48
8	.11	.78	6.0	3.9	130	57	6.5	5.2	1.6	.70	.67	.52
9	.14	2.5	5.4	3.7	57	37	6.2	4.8	1.6	.73	.88	.49
10	.16	1.2	4.7	3.2	34	30	5.8	4.5	1.5	.77	.52	.49
11	.14	1.1	4.3	3.1	24	23	5.6	4.2	1.4	.70	.48	.16
12	.14	.81	4.5	3.0	45	191	5.1	3.9	1.4	.67	.53	.12
13	.15	.73	4.0	2.9	41	381	4.7	3.7	1.3	.62	.56	.03
14	.16	.69	3.7	2.8	31	81	4.5	3.2	1.3	.62	.58	.04
15	.17	.64	3.6	2.7	24	42	4.5	3.2	1.3	.62	.53	.07
16	.16	.68	4.4	2.7	19	46	4.2	3.0	1.2	.61	.59	.16
17	.15	7.2	5.4	2.6	15	60	4.1	2.7	1.2	.63	.58	.21
18	.16	133	3.6	21	36	58	4.6	2.7	1.1	.62	.62	.36
19	.18	20	3.4	12	28	39	5.7	2.7	1.1	.58	.65	.37
20	.13	8.9	8.5	8.8	21	33	4.2	2.7	1.1	.56	.73	.12
21	.14	5.8	67	7.6	16	28	3.8	2.7	1.2	.69	.64	.04
22	.14	24	144	93	13	92	3.5	2.7	1.2	1.0	.62	.20
23	.14	29	66	58	18	84	15	2.5	1.1	.88	.60	.50
24	.56	13	30	103	18	90	11	2.4	1.1	.62	.69	.23
25	15	8.2	19	49	211	60	8.2	2.4	1.1	.59	.66	.16
26	2.4	6.2	14	106	105	40	7.0	2.3	1.0	.52	.53	.20
27	.79	75	11	110	54	42	9.7	2.3	.98	.54	.54	.29
28	.49	98	9.1	58	91	33	8.9	2.3	1.0	.57	.53	.30
29	8.1	112	8.1	52	---	25	9.6	2.2	.99	.58	.54	.29
30	16	138	7.9	38	---	21	19	2.0	.95	.64	.56	1.7
31	2.9	---	6.5	26	---	17	---	1.9	---	.69	.63	---
TOTAL	49.21	694.05	565.7	805.6	1607	2312	231.1	144.5	40.42	22.43	19.56	11.03
MEAN	1.59	23.1	18.2	26.0	57.4	74.6	7.70	4.66	1.35	.72	.63	.37
MAX	16	138	144	110	247	381	19	17	1.9	1.1	.91	1.7
MIN	.07	.59	3.4	2.6	11	17	3.5	1.9	.95	.52	.48	.03
AC-FT	98	1380	1120	1600	3190	4590	458	287	80	44	39	22
CAL YR 1982	TOTAL	5495.47	MEAN	15.1	MAX	711	MIN	.07	AC-FT	10900		
WTR YR 1983	TOTAL	6502.60	MEAN	17.8	MAX	381	MIN	.03	AC-FT	12900		

11460400 LAGUNITAS CREEK AT SAMUEL P. TAYLOR STATE PARK, CA

LOCATION.--Lat 38°01'37", long 122°44'07", in Samuel P. Taylor State Park, Marin County, Hydrologic Unit 18050005, on left bank 300 ft upstream of Deadmans Gulch, 0.9 mi downstream of park entrance, 2.1 mi NW of Lagunitas.

DRAINAGE AREA.--34.3 mi².

PERIOD OF RECORD.--December 1982 to September 1983.

GAGE.--Water-stage recorder. Datum of gage is 102.89 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. 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.--Maximum discharge, 2,620 ft³/s Mar. 13, gage height, 7.65 ft; minimum daily, 5.10 ft³/s Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, DECEMBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				18	224	708	147	176	11	8.3	5.9	7.0
2				17	221	823	109	151	11	8.5	6.0	6.5
3				16	210	706	94	123	11	8.4	5.7	6.2
4				15	164	563	86	104	11	8.5	6.1	6.3
5				16	86	507	78	104	10	8.3	6.5	6.1
6				14	281	460	76	89	9.8	8.4	6.4	6.5
7				15	639	549	66	73	10	8.2	6.2	6.6
8				17	769	588	60	59	9.9	8.0	6.4	6.5
9				18	674	416	49	46	10	8.1	6.9	6.1
10				17	541	123	39	37	10	7.8	7.0	6.0
11				17	343	115	32	30	9.9	7.5	6.9	6.0
12				17	573	523	27	24	10	7.4	6.9	5.9
13				18	528	1460	24	21	10	6.9	6.8	5.8
14				18	468	804	20	18	9.9	6.0	6.7	5.8
15				18	329	644	19	14	9.9	6.0	6.8	5.7
16				17	234	509	22	13	9.9	6.0	7.0	5.8
17				17	145	506	21	12	9.8	6.0	6.7	5.9
18				238	331	669	22	13	9.7	5.8	6.6	6.0
19				128	366	360	25	12	9.6	5.4	6.9	6.8
20				60	338	183	22	12	9.6	5.5	7.2	5.9
21			769	41	319	215	17	13	9.6	5.3	6.8	5.4
22			428	285	306	416	17	13	9.5	5.3	6.9	5.9
23			188	224	316	541	108	13	9.4	5.5	7.0	5.9
24			89	457	316	576	100	12	9.3	5.5	6.6	5.7
25			58	141	1020	691	104	12	9.1	5.5	6.3	5.3
26			43	570	573	116	88	12	9.1	6.5	6.4	5.3
27			34	591	583	540	118	11	9.0	6.5	6.2	5.2
28			28	352	720	456	129	12	8.5	6.5	6.1	5.1
29			25	327	---	333	123	12	8.2	6.6	6.2	5.2
30			22	267	---	263	178	11	8.3	6.3	6.3	5.5
31			20	241	---	234	---	11	---	6.1	7.3	---
TOTAL				4207	11617	15597	2020	1263	292.0	210.6	203.7	177.9
MEAN				136	415	503	67.3	40.7	9.73	6.79	6.57	5.93
MAX				591	1020	1460	178	176	11	8.5	7.3	7.0
MIN				14	86	115	17	11	8.2	5.3	5.7	5.1
AC-FT				8340	23040	30940	4010	2510	579	418	404	353

LAGUNITAS CREEK BASIN

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, and 1.4 mi northeast of town of Point Reyes Station.

DRAINAGE AREA.--81.7 mi².

PERIOD OF RECORD.--October 1974 to current year.

REVISED RECORDS.--WRD CA-79-2: 1975, 1978. WRD CA-82-2: 1975 (M), 1978 (M), and 1980 (M).

GAGE.--Water-stage recorder. Altitude of gage is 50 ft from topographic map.

REMARKS.--Records good. 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.--9 years, 99.3 ft³/s, 71,950 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,100 ft³/s Jan. 4, 1982, gage height, 26.96 ft from rating curve extended above 3,100 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 0.01 ft³/s Sept. 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,530 ft³/s Mar. 13, gage height, 19.37 ft; minimum daily, 2.90 ft³/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	40	615	130	413	2560	279	359	18	12	6.9	6.8
2	3.2	41	298	127	399	2420	218	285	18	12	6.6	6.3
3	3.1	36	216	125	371	2150	183	229	17	12	6.6	6.2
4	3.1	11	199	124	313	1280	168	193	17	12	6.6	5.9
5	3.1	8.9	170	104	307	1000	152	217	17	11	6.3	5.8
6	3.3	7.7	160	54	971	852	125	205	16	10	6.1	5.7
7	3.7	8.1	125	27	1810	1010	111	156	15	10	6.1	5.8
8	3.2	8.4	34	30	2080	885	102	126	15	10	6.2	5.8
9	3.1	9.3	31	30	1260	759	88	103	15	9.8	6.3	5.5
10	2.9	10	28	29	871	477	74	86	15	9.7	6.1	5.5
11	3.0	9.0	24	28	586	282	63	76	15	9.7	6.0	5.6
12	3.0	8.6	23	27	1400	896	55	63	14	9.5	5.8	5.7
13	3.0	7.0	23	27	1080	4730	50	57	14	9.0	5.8	5.4
14	3.1	5.9	21	27	834	1580	44	51	14	8.9	5.8	5.4
15	3.0	5.7	20	26	606	903	40	45	14	8.6	5.7	5.4
16	3.0	6.2	29	26	502	810	41	40	14	8.4	5.7	5.5
17	3.1	10	128	25	337	893	39	37	14	8.4	5.6	5.6
18	3.0	496	98	403	683	1100	41	35	13	8.3	5.6	5.8
19	3.4	118	86	485	649	677	53	34	13	7.9	5.9	5.9
20	3.3	56	150	266	556	435	64	29	13	7.4	6.4	6.6
21	3.3	35	1360	183	500	452	48	26	13	7.2	6.1	5.5
22	3.4	37	2000	889	460	900	38	25	13	7.2	5.5	5.8
23	3.4	138	1000	792	472	1120	359	25	13	7.0	5.5	6.2
24	3.5	96	432	2590	517	1240	340	25	12	6.9	5.4	6.2
25	20	72	264	727	2840	1280	279	23	12	6.7	5.5	5.9
26	53	56	191	2370	1610	473	205	22	12	6.5	5.5	5.8
27	26	163	149	2740	1610	974	263	22	12	6.5	5.6	6.0
28	24	639	155	1040	2200	783	277	23	12	6.4	5.3	5.8
29	23	1150	126	909	---	587	241	21	12	6.6	5.4	5.7
30	29	2020	118	611	---	453	338	20	12	6.5	5.6	5.7
31	17	---	134	483	---	413	---	19	---	7.0	6.3	---
TOTAL	268.9	5308.8	8407	15454	26237	34374	4378	2677	424	269.1	183.8	174.8
MEAN	8.67	177	271	499	937	1109	146	86.4	14.1	8.68	5.93	5.83
MAX	53	2020	2000	2740	2840	4730	359	359	18	12	6.9	6.8
MIN	2.9	5.7	20	25	307	282	38	19	12	6.4	5.3	5.4
AC-FT	533	10530	16680	30650	52040	68180	8680	5310	841	534	365	347
CAL YR 1982	TOTAL	86048.2	MEAN	236	MAX	10700	MIN	2.1	AC-FT	170700		
WTR YR 1983	TOTAL	98156.4	MEAN	269	MAX	4730	MIN	2.9	AC-FT	194700		

11460800 WALKER CREEK NEAR TOMALES, CA

LOCATION.--Lat 38°12'35", long 122°51'35", in Nicasio Grant, Marin County, Hydrologic Unit 18050005, on left bank 1,300 ft upstream from Chileno Creek, and 3.5 mi southeast of Tomales.

DRAINAGE AREA.--40.1 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 56.74 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow affected by regulation and diversions, beginning February 1979, by Soulaajule Reservoir on Arroyo Sausal, a tributary to Walker Creek. Reservoir capacity 10,570 acre ft. There are small diversions above station for irrigation of about 50 acres and stock watering.

EXTREMES FOR PERIOD OF RECORD (Prior to regulation by Soulaajule Reservoir).--Maximum discharge, 5,420 ft³/s Jan. 5, 1966, gage height, 22.23 ft; maximum gage height, 22.91 ft Jan. 16, 1973; no flow at times each year. 1979 to current year: Maximum discharge, 18,800 ft³/s Jan. 4, 1982, gage height 31.37 ft from rating curve extended above 2,300 ft³/s on basis of slope-area measurement; minimum daily, no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,410 ft³/s Jan. 26, gage height, 19.66 ft; minimum daily, 3.8 ft³/s July 12, 15, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	5.7	403	34	135	1930	128	107	8.2	6.6	5.8	5.5
2	5.2	5.6	185	30	114	2500	105	83	8.1	6.4	5.7	5.3
3	5.3	5.5	117	29	98	1400	86	70	7.9	5.4	5.5	5.4
4	5.3	5.4	87	24	77	548	71	60	7.7	4.7	5.5	5.3
5	5.4	5.4	70	22	96	382	57	66	7.4	4.5	5.5	4.5
6	5.5	5.4	60	20	512	310	45	63	7.1	4.4	5.5	4.4
7	5.5	5.7	51	19	1020	405	39	52	6.6	4.3	5.4	4.7
8	5.3	6.3	40	19	1340	246	34	39	7.4	4.1	5.4	4.6
9	5.3	7.1	32	17	521	173	26	29	7.2	3.9	5.3	4.5
10	5.3	8.5	24	15	264	130	21	24	6.9	4.0	5.3	4.7
11	5.4	6.0	16	15	190	98	20	22	6.7	4.1	5.2	4.9
12	5.4	6.0	14	13	558	645	19	22	6.6	3.8	5.4	4.9
13	5.0	6.2	15	11	451	2890	17	21	6.5	3.9	5.5	5.0
14	5.5	6.2	10	9.5	266	611	17	21	6.4	4.0	5.5	5.2
15	5.5	6.2	11	8.5	179	292	16	20	6.5	3.8	5.4	5.3
16	5.4	6.2	27	8.8	138	267	18	18	6.2	3.9	5.6	5.2
17	5.6	12	94	8.9	100	681	18	17	6.2	3.8	5.7	5.2
18	5.5	106	63	268	263	485	16	16	6.2	4.3	5.8	5.2
19	5.7	34	51	321	151	304	17	15	6.2	4.7	6.3	5.0
20	5.8	16	107	131	107	229	18	14	6.3	4.5	5.9	4.7
21	5.8	11	651	88	81	203	17	14	6.7	4.9	5.5	4.4
22	5.8	13	1110	420	67	523	16	11	7.1	5.5	5.8	4.7
23	5.6	21	632	679	76	512	76	10	7.0	5.6	5.8	5.1
24	5.6	14	265	1920	84	622	121	9.5	6.9	5.3	5.7	4.7
25	13	11	154	469	2340	464	114	10	6.7	4.9	5.0	5.0
26	12	9.8	103	2370	913	290	75	10	6.6	4.7	5.0	5.2
27	5.8	39	77	2070	865	642	101	9.7	6.5	5.0	5.0	5.0
28	5.4	249	62	562	1890	325	104	9.5	6.2	5.8	5.0	5.0
29	6.5	366	52	512	---	209	84	9.2	6.0	5.8	5.1	5.2
30	13	1300	45	295	---	171	115	8.8	5.5	5.8	5.5	6.2
31	6.2	---	39	197	---	183	---	8.6	---	6.0	6.7	---
TOTAL	192.9	2299.2	4667	10605.7	12896	18670	1611	889.3	203.5	148.4	171.3	150.0
MEAN	6.22	76.6	151	342	461	602	53.7	28.7	6.78	4.79	5.53	5.00
MAX	13	1300	1110	2370	2340	2890	128	107	8.2	6.6	6.7	6.2
MIN	5.0	5.4	10	8.5	67	98	16	8.6	5.5	3.8	5.0	4.4
AC-FT	383	4560	9260	21040	25580	37030	3200	1760	404	294	340	298
CAL YR 1982	TOTAL	43591.2	MEAN	119	MAX	8250	MIN	2.4	AC-FT	86460		
WTR YR 1983	TOTAL	52504.3	MEAN	144	MAX	2890	MIN	3.8	AC-FT	104100		

RUSSIAN RIVER BASIN

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 mi².

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 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 datums.

REMARKS.--Records fair. No regulation. Diversions above station for irrigation of about 1,000 acres.

AVERAGE DISCHARGE.--33 years, 185 ft³/s, 134,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft³/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 above base of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 28	1830	7,380	16.43	Feb. 28	2115	6,520	14.81
Dec. 1	0200	6,210	15.37	Mar. 13	0245	7,750	15.87
Dec. 16	2130	4,160	12.57	Mar. 24	1215	4,820	13.09
Dec. 21	1330	*11,000	18.47	Mar. 30	2030	4,830	13.11
Jan. 26	1400	10,300	13.34	Apr. 27	1415	4,210	12.41
Feb. 6	2100	4,930	13.34				

Minimum daily, 0.43 ft³/s Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.73	15	892	147	394	2870	1130	521	43	19	2.6	11
2	.73	11	494	143	334	3000	879	380	42	27	3.1	5.2
3	.64	8.6	447	135	284	1540	676	302	38	23	2.9	3.3
4	.47	7.4	345	127	245	896	567	253	38	18	2.6	2.5
5	.43	6.5	267	120	644	658	485	289	36	15	3.1	1.8
6	.46	6.0	196	113	2190	590	426	271	33	15	2.4	1.6
7	.65	5.6	146	107	2210	928	384	234	30	14	1.6	1.6
8	.77	5.2	113	103	1780	595	350	208	29	14	.90	2.0
9	.72	4.8	93	97	1360	487	318	178	28	14	1.5	3.4
10	.69	4.6	75	93	1150	500	280	166	27	14	1.4	3.5
11	.70	4.4	61	90	777	394	260	153	30	14	2.4	3.1
12	.73	4.2	78	87	1680	1600	240	146	29	13	2.4	2.7
13	.67	4.0	138	85	1660	3780	223	138	28	12	2.0	2.4
14	.81	3.9	90	82	886	1470	208	127	28	11	1.1	2.2
15	.92	5.5	141	81	769	963	201	118	26	10	.53	2.2
16	.92	10	1180	88	653	988	196	112	26	9.6	1.0	2.3
17	.98	20	1400	87	524	1590	188	105	27	9.0	.69	2.3
18	1.0	1100	900	563	1930	1250	181	99	26	8.5	1.2	2.1
19	1.1	850	370	872	1020	863	181	93	24	8.0	4.1	1.9
20	1.8	450	800	365	648	832	182	83	23	7.6	8.1	1.6
21	2.2	248	4000	265	489	889	167	76	21	7.0	5.6	1.5
22	6.7	700	3230	679	428	1570	158	74	21	6.6	3.7	2.1
23	8.8	350	2020	1120	653	1400	1240	69	19	6.4	3.3	2.9
24	6.3	150	950	2880	718	3570	1420	63	18	6.0	3.0	3.8
25	18	104	635	995	2350	1820	1140	60	17	5.8	2.8	2.8
26	15	73	482	5710	1610	1290	643	55	17	5.5	1.9	3.6
27	7.1	73	395	2120	2420	1980	2090	51	14	5.3	1.5	1.8
28	5.3	1890	298	851	3370	1120	1550	48	18	5.1	1.3	.95
29	30	1860	215	922	---	1070	871	47	17	4.3	1.1	.95
30	152	2650	190	641	---	2100	760	45	17	3.3	1.3	2.0
31	31	---	171	483	---	1900	---	43	---	2.5	6.9	---
TOTAL	298.32	10624.7	20812	20251	33176	44503	17594	4607	790	333.5	78.02	81.10
MEAN	9.62	354	671	653	1185	1436	586	149	26.3	10.8	2.52	2.70
MAX	152	2650	4000	5710	3370	3780	2090	521	43	27	8.1	11
MIN	.43	3.9	61	81	245	394	158	43	14	2.5	.53	.95
AC-FT	592	21070	41280	40170	65800	88270	34900	9140	1570	661	155	161
CAL YR 1982	TOTAL	101852.02	MEAN	279	MAX	6140	MIN	.05	AC-FT	202000		
WTR YR 1983	TOTAL	153148.64	MEAN	420	MAX	5710	MIN	.43	AC-FT	303800		

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 mi².

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 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.--Records fair. Flow greatly affected by diversion from Bel River through Potter Valley powerhouse (station 11471000). Diversion for irrigation of about 8,000 acres above station.

AVERAGE DISCHARGE.--42 years, 343 ft³/s, 248,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft³/s Dec. 22, 1964, gage height, 20.21 ft site then in use; minimum daily, 2.0 ft³/s July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 28	1830	7,370	16.97	Feb. 6	2100	4,920	14.38
Dec. 16	2330	4,180	13.49	Feb. 28	2200	9,880	19.24
Dec. 21	1330	9,230	18.68	Mar. 13	0300	6,930	16.54
Jan. 23	2330	7,450	17.05	Mar. 24	1045	4,990	14.46
Jan. 26	1445	*10,100	19.41	Mar. 30	2030	4,840	14.28

Minimum daily, 37 ft³/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	295	701	388	648	3850	966	651	288	246	276	92
2	134	238	580	381	599	4670	898	589	288	137	264	88
3	153	234	465	377	555	2030	777	555	318	135	264	90
4	152	233	395	370	519	1440	676	532	306	140	269	84
5	145	229	356	364	738	1220	631	624	303	139	277	77
6	147	237	327	358	2090	1190	580	569	297	138	273	62
7	146	239	303	354	1880	1480	545	518	297	137	265	88
8	143	242	288	350	1410	986	525	497	300	146	266	80
9	146	242	287	344	1290	874	508	434	291	281	265	83
10	147	240	347	337	1210	870	474	460	300	291	266	69
11	142	235	339	335	909	748	472	451	309	288	270	67
12	139	235	372	337	1480	1810	449	442	297	250	271	64
13	146	239	435	334	1720	3120	439	435	312	266	269	50
14	146	235	368	331	971	1290	437	428	318	262	279	46
15	149	241	416	312	886	920	437	384	295	263	280	48
16	152	237	1210	343	765	1030	437	407	284	280	270	50
17	152	411	1130	340	701	1450	436	397	287	271	275	50
18	151	1230	638	849	1450	1040	433	384	293	283	279	59
19	149	534	538	1030	874	833	431	384	297	288	273	58
20	144	351	933	574	725	952	435	374	298	286	230	70
21	152	300	4010	498	655	1030	428	370	284	287	309	72
22	159	855	2830	967	634	1660	425	353	280	279	304	74
23	157	504	1680	1660	807	1520	1250	318	273	270	302	79
24	153	341	860	2760	822	3520	1510	340	269	261	281	75
25	169	307	670	1040	1850	1560	1090	331	263	277	283	68
26	179	293	567	5140	1420	1280	743	324	252	270	246	69
27	143	294	504	1950	2240	2010	1530	315	254	269	77	70
28	156	1930	461	1080	4020	1100	1230	309	258	270	69	71
29	228	1730	438	1220	---	1060	873	306	242	265	66	67
30	455	2860	410	893	---	1970	765	306	263	257	61	67
31	340	---	402	727	---	1420	---	309	---	266	82	---
TOTAL	5111	15791	23260	26343	33868	49933	20830	13096	8616	7498	7461	2087
MEAN	165	526	750	850	1210	1611	694	422	287	242	241	69.6
MAX	455	2860	4010	5140	4020	4670	1530	651	318	291	309	92
MIN	37	229	287	312	519	748	425	306	242	135	61	46
AC-FT	10140	31320	46140	52250	67180	99040	41320	25980	17090	14870	14800	4140
CAL YR 1982	TOTAL	169203	MEAN	464	MAX	4010	MIN	37	AC-FT	335600		
WTR YR 1983	TOTAL	213894	MEAN	586	MAX	5140	MIN	37	AC-FT	424300		

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 mi².

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 furnished 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, 105,726 acre-ft Mar. 2, elevation, 755.98 ft; minimum, 72,188 acre-ft Feb. 17, elevation, 737.45 ft.

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

637	0	665	2814	690	13829	730	59473
645	152	670	4285	695	17274	740	76422
650	432	675	6111	700	21194	750	94382
655	914	680	8281	710	31258	760	112962
660	1697	685	10838	720	44283	764.8	122142

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72676	74372	82711	73811	78713	96976	82962	88284	90191	91958	91392	90573
2	72606	74407	80101	74266	75636	105726	83070	87849	90191	91703	91411	90282
3	72554	73986	77986	74389	73252	104201	82944	87686	90191	91484	91447	90009
4	72536	73374	76800	73846	72798	99001	83159	87686	90191	91301	91429	89718
5	72554	73007	75566	73147	74214	94462	83465	88102	90755	91119	91575	89391
6	72536	72798	74249	72728	78748	90082	83680	88229	91301	90755	91703	88901
7	72571	72624	73496	73164	80814	88120	84040	88211	91757	90427	91757	88520
8	72519	72502	73042	73566	81154	85102	84580	88102	92122	90191	91757	88139
9	72536	72415	72937	73969	79744	81547	85012	87849	92451	90264	91720	87812
10	72519	72397	73287	73881	78482	79851	85372	87740	91392	90372	91757	87523
11	72502	72363	73724	73374	76447	79548	85769	87758	90518	90427	91848	87215
12	72519	72345	74249	72763	77808	82102	86112	87758	90882	90427	91958	86853
13	72519	72345	74372	72519	79069	86275	86419	87794	91356	90427	91994	86419
14	72536	72345	73759	72885	76977	84058	86835	87740	91648	90318	92067	86022
15	72554	72363	72937	73269	76006	81100	87342	87667	92031	90300	92122	85589
16	72589	72397	74372	73671	74898	78802	87849	87994	92304	90336	92159	85174
17	72571	72937	75636	73741	72188	78625	88320	88211	92414	90336	92195	84778
18	72536	74652	75724	73759	73391	79478	88465	88338	92615	90409	92177	84346
19	72536	74635	75724	73776	74880	80903	88338	88483	92816	90500	92250	83986
20	72536	74214	74810	72728	76130	82586	88211	88628	92925	90627	92195	83626
21	72536	73759	81386	72711	76094	81976	88030	88755	92925	90755	92323	83249
22	72676	73724	86618	74530	74126	81815	87976	88883	92852	90828	92451	82854
23	72728	73164	87125	78145	73461	81136	89845	89027	92724	90882	92542	82586
24	72746	73095	83788	81279	72920	81422	90992	89136	92724	90846	92651	82263
25	72920	73339	80297	78802	75654	87251	90300	89445	92651	90937	92669	81905
26	72972	73654	77048	88483	77968	86130	88737	89718	92432	91028	92706	81529
27	72972	73916	74459	90445	82352	87704	90027	89882	92359	91083	92341	81064
28	72955	77649	73060	87215	90118	86094	89064	89972	92231	91174	91958	80671
29	73287	79531	72606	85823	---	84418	88302	90027	92122	91265	91575	80386
30	73864	84058	72833	83842	---	84652	88556	90100	92013	91283	91156	80047
31	74162	---	73357	81565	---	83788	---	90209	---	91338	90846	---
MAX	74162	84058	87125	90445	90118	105726	90992	90209	92925	91958	92706	90573
MIN	72502	72345	72606	72519	72188	78625	82944	87667	90191	90191	90846	80047
a	738.58	744.15	738.12	742.76	747.50	744.00	746.64	747.55	748.54	748.17	747.90	741.91
b	+1508	+9896	-10701	+8208	+8553	-6330	+4768	+1653	+1804	-675	-492	-10799

CAL YR 1982 -2200

WTR YR 1983 +7393

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 mi².

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 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.--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 ft³/s, 257,900 acre-ft/yr; 24 years (water years 1960-83), 360 ft³/s, 260,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (Prior to regulation by Lake Mendocino).--Maximum discharge, 13,300 ft³/s Dec. 21, 1955, gage height, 16.86 ft site and datum then in use, from rating curve extended above 1,700 ft³/s on basis of maximum flow at station upstream which was defined to 8,600 ft³/s; no flow Aug. 13-15, 1913. 1957 to current year: Maximum discharge, 7,350 ft³/s Jan. 24, 1970, gage height, 10.84 ft; minimum daily, 0.02 ft³/s Apr. 17, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,470 ft³/s Mar. 3, gage height, 7.40 ft; minimum daily, 40 ft³/s June 5-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	173	1440	163	1980	777	1440	840	348	263	230	250
2	170	216	1930	163	2040	670	810	840	362	240	230	250
3	170	447	1570	397	1720	3100	807	648	363	238	230	250
4	170	543	1050	658	688	4270	574	558	324	238	231	250
5	166	424	1040	728	156	3500	447	486	40	204	234	250
6	164	337	1050	507	159	3470	447	518	40	226	234	253
7	163	336	708	163	840	2420	335	550	61	250	232	254
8	157	336	520	163	1360	2460	268	554	86	249	231	254
9	153	285	352	163	2070	2540	271	555	116	247	234	254
10	150	250	153	463	1570	1670	271	555	790	250	234	254
11	150	250	153	623	2010	818	271	487	848	250	234	250
12	153	245	153	622	1010	666	271	453	131	231	234	250
13	157	230	389	457	1230	984	271	457	129	250	234	250
14	159	230	668	172	2070	2360	209	458	127	250	235	249
15	157	230	842	162	1420	2400	175	458	125	230	240	246
16	155	230	595	160	1320	2260	177	256	156	218	242	246
17	153	230	399	403	2040	1660	176	333	177	218	242	250
18	162	346	531	901	1030	669	326	345	177	215	242	250
19	171	544	531	1090	156	160	477	346	194	218	244	250
20	170	543	1340	1090	156	160	480	322	234	218	246	250
21	170	538	791	483	673	1340	480	307	298	218	246	250
22	168	873	493	164	1660	1860	480	308	298	218	246	250
23	166	829	1460	164	1300	1970	484	312	294	220	246	249
24	166	347	2490	1110	1170	807	1060	253	293	222	246	246
25	170	174	2460	2360	701	1320	1490	209	293	226	246	246
26	173	167	2110	572	551	1950	1490	206	291	226	248	246
27	173	156	1750	1040	354	1300	1180	253	293	226	250	246
28	173	157	1210	2840	443	1910	1960	280	293	226	250	246
29	173	839	680	1970	---	1910	1410	280	291	226	250	242
30	173	584	256	1860	---	1900	743	280	289	228	250	239
31	173	---	163	1850	---	1900	---	279	---	230	252	---
TOTAL	5104	11089	29277	23661	31877	55181	19280	12986	7761	7169	7443	7470
MEAN	165	370	944	763	1138	1780	643	419	259	231	240	249
MAX	176	873	2490	2840	2070	4270	1960	840	848	263	252	254
MIN	150	156	153	160	156	160	175	206	40	204	230	239
AC-FT	10120	22000	58070	46930	63230	109500	38240	25760	15390	14220	14760	14820
CAL YR 1982	TOTAL	186793	MEAN	512	MAX	4450	MIN	84	AC-FT	370500		
WTR YR 1983	TOTAL	218298	MEAN	598	MAX	4270	MIN	40	AC-FT	433000		

RUSSIAN RIVER BASIN

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.

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.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 19.5°C Oct. 2; minimum recorded, 8.0°C on many days during January.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	HAX	MIN	HAX	MIN	HAX	MIN	HAX	MIN	HAX	MIN	HAX	MIN
1	19.0	19.0	16.0	16.0	12.0	12.0	8.5	8.5	9.0	9.0	10.5	9.5
2	19.5	19.0	16.0	16.0	12.0	11.5	8.5	8.0	9.0	9.0	10.5	10.5
3	19.0	19.0	16.0	16.0	11.5	11.5	8.0	8.0	9.0	9.0	10.5	10.5
4	19.0	19.0	16.0	16.0	11.5	11.5	8.0	8.0	9.0	9.0	10.5	10.5
5	19.0	19.0	16.0	16.0	11.5	11.5	8.0	8.0	9.0	9.0	10.5	10.5
6	19.0	19.0	16.0	16.0	11.5	11.5	8.0	8.0	9.0	9.0	10.5	10.5
7	19.0	19.0	16.0	15.5	11.5	11.5	8.0	8.0	9.0	9.0	10.5	10.5
8	19.0	18.5	15.5	15.5	11.5	11.5	8.5	8.0	9.0	9.0	10.5	10.5
9	18.5	18.5	15.5	15.5	11.5	11.0	8.0	8.0	9.0	9.0	10.5	10.5
10	18.5	18.5	15.5	15.0	11.0	10.5	8.0	8.0	9.0	9.0	10.5	10.5
11	18.5	18.0	15.0	15.0	11.0	10.5	8.5	8.0	9.0	9.0	10.5	10.5
12	18.0	18.0	15.0	14.5	10.5	10.5	8.5	8.5	9.0	9.0	10.5	10.5
13	18.0	18.0	14.5	14.5	10.5	10.0	8.5	8.0	9.0	9.0	10.5	10.5
14	18.0	18.0	14.5	14.0	10.5	10.5	8.0	8.0	9.0	9.0	10.5	10.5
15	18.0	18.0	14.0	14.0	10.5	10.5	8.0	8.0	9.0	9.0	10.5	10.5
16	18.0	18.0	14.0	13.5	10.5	10.0	8.0	8.0	9.0	9.0	10.5	10.5
17	18.0	18.0	13.5	13.5	10.5	10.0	8.0	8.0	9.5	9.0	10.5	10.5
18	18.5	18.0	13.5	13.5	10.0	10.0	8.0	8.0	9.5	9.5	10.5	10.5
19	18.0	18.0	13.5	13.5	10.0	10.0	8.5	8.0	9.5	9.5	10.5	10.5
20	18.0	18.0	13.5	13.5	10.0	10.0	8.5	8.5	9.5	9.5	10.5	10.5
21	18.0	17.5	13.0	13.0	10.0	9.5	8.5	8.0	9.5	9.5	10.5	10.5
22	17.5	17.5	13.0	13.0	9.5	9.5	8.0	8.0	9.5	9.5	11.0	10.5
23	17.5	17.5	13.0	12.5	10.0	9.5	8.0	8.0	9.5	9.5	11.0	10.5
24	17.5	17.5	12.5	12.0	10.0	10.0	8.5	8.0	9.5	9.5	10.5	10.5
25	17.5	17.5	12.0	12.0	10.0	10.0	8.5	8.5	9.5	9.5	10.5	10.5
26	17.5	17.5	12.0	12.0	10.0	9.5	9.0	8.5	9.5	9.5	10.5	10.5
27	17.5	17.5	12.0	12.0	9.5	9.5	9.0	8.5	9.5	9.5	10.5	10.0
28	17.5	17.5	12.0	12.0	9.5	9.0	9.0	8.5	9.5	9.5	10.5	10.5
29	17.5	17.0	12.0	11.5	9.0	9.0	9.0	9.0	---	---	10.5	10.5
30	17.0	16.5	12.0	12.0	9.0	8.5	9.0	9.0	---	---	10.5	10.5
31	16.5	16.0	---	---	8.5	8.5	9.0	9.0	---	---	10.5	10.5
MONTH	19.5	16.0	16.0	11.5	12.0	8.5	9.0	8.0	9.5	9.0	11.0	9.5

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.5	11.0	11.0	11.5	11.5	12.5	12.5	13.5	13.5	15.0	15.0
2	10.5	10.5	11.0	11.0	11.5	11.5	12.5	12.5	13.5	13.5	---	---
3	10.5	10.5	11.5	11.0	11.5	11.5	12.5	12.5	13.5	13.5	---	---
4	10.5	10.5	11.5	11.5	12.0	11.5	12.5	12.5	13.5	13.5	---	---
5	10.5	10.5	11.5	11.5	12.0	11.5	12.5	12.5	13.5	13.5	---	---
6	10.5	10.5	11.5	11.5	12.0	11.5	12.5	12.5	13.5	13.5	---	---
7	11.0	10.5	11.5	11.5	11.5	11.5	12.5	12.5	13.5	13.5	---	---
8	10.5	10.5	11.5	11.0	12.0	11.5	12.5	12.5	13.5	13.5	---	---
9	10.5	10.5	11.5	11.5	12.0	12.0	12.5	12.5	14.0	13.5	---	---
10	10.5	10.5	11.5	11.5	12.0	12.0	12.5	12.5	14.0	13.5	---	---
11	10.5	10.5	11.5	11.5	12.0	12.0	12.5	12.5	14.0	13.5	---	---
12	11.0	10.5	11.5	11.5	12.0	12.0	15.5	12.5	14.0	14.0	---	---
13	10.5	10.5	11.5	11.5	12.0	12.0	12.5	12.5	14.0	14.0	---	---
14	10.5	10.5	11.5	11.5	12.0	12.0	12.5	12.5	14.0	14.0	---	---
15	10.5	10.5	11.5	11.5	12.0	12.0	12.5	12.5	14.0	14.0	---	---
16	10.5	10.5	17.0	11.5	12.0	12.0	12.5	12.5	14.0	14.0	---	---
17	10.5	10.5	11.5	11.5	12.0	12.0	12.5	12.5	14.0	14.0	---	---
18	11.0	10.5	11.5	11.5	12.0	12.0	12.5	12.5	14.0	14.0	---	---
19	11.0	11.0	11.5	11.5	12.0	12.0	13.0	12.5	14.0	14.0	---	---
20	11.0	11.0	11.5	11.5	12.0	12.0	13.0	13.0	14.0	14.0	---	---
21	11.0	11.0	11.5	11.5	12.0	12.0	13.0	13.0	14.0	14.0	---	---
22	11.0	11.0	11.5	11.5	12.0	12.0	13.0	13.0	14.5	14.0	---	---
23	11.0	11.0	11.5	11.5	12.0	12.0	13.0	13.0	14.5	14.5	17.0	17.0
24	11.0	11.0	11.5	11.5	12.0	12.0	13.0	13.0	14.5	14.5	17.0	17.0
25	11.0	11.0	11.5	11.5	12.0	12.0	13.0	13.0	14.5	14.5	17.0	17.0
26	11.0	11.0	11.5	11.5	12.0	12.0	13.0	13.0	14.5	14.5	17.0	17.0
27	11.5	11.0	11.5	11.5	12.0	12.0	13.0	13.0	14.5	14.5	17.0	17.0
28	11.0	11.0	11.5	11.5	12.0	12.0	13.0	13.0	15.0	14.5	17.5	17.0
29	11.5	11.0	11.5	11.5	12.0	12.0	13.0	13.0	15.0	15.0	17.0	17.0
30	11.0	11.0	11.5	11.5	12.0	12.0	13.5	13.0	15.0	15.0	17.5	17.0
31	---	---	11.5	11.5	---	---	13.5	13.5	15.0	15.0	---	---
MONTH	11.5	10.5	17.0	11.0	12.0	11.5	15.5	12.5	15.0	13.5	---	---

RUSSIAN RIVER BASIN

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.

DRAINAGE AREA.--362 mi².

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. Datum of gage is 497.61 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 9, 1943, nonrecording gage at same site and datum.

REMARKS.--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 mi upstream.

AVERAGE DISCHARGE.--44 years, 741 ft³/s, 536,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft³/s Dec. 22, 1955, gage height, 27.00 ft; minimum daily, 9.1 ft³/s Apr. 20, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1937 reached a stage of 30.0 ft from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,200 ft³/s Jan. 26, gage height, 20.82 ft; minimum daily, 114 ft³/s June 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	211	3130	588	3210	10900	4150	1860	411	346	210	241
2	156	202	2870	536	3090	10200	3210	1610	537	311	206	229
3	154	404	2570	658	2710	8160	2840	1410	431	309	208	224
4	154	597	1780	922	1950	7260	2500	1240	578	302	209	224
5	153	545	1610	1000	1930	5960	2200	1250	198	283	212	223
6	148	406	1460	883	3900	5580	2090	1210	133	238	213	220
7	148	400	1170	416	5800	5140	1950	1140	114	285	214	217
8	147	404	836	380	5040	4500	1810	1090	125	292	214	213
9	140	378	691	355	4890	4280	1740	1040	144	291	210	212
10	140	308	364	521	3750	3690	1670	1010	307	291	208	214
11	137	297	307	775	3500	2720	1630	948	1050	291	210	213
12	135	293	293	781	4320	3540	1590	883	260	271	209	212
13	140	264	543	718	4410	8710	1530	858	211	264	202	208
14	140	259	755	343	3900	5500	1440	833	193	274	202	206
15	140	258	984	300	3250	4560	1340	811	181	268	204	200
16	142	258	2140	306	2500	4470	1310	668	181	243	207	199
17	143	305	4040	447	2920	5010	1290	654	218	241	210	199
18	143	2600	1690	1610	4720	3770	1370	662	211	241	212	199
19	150	1370	1270	2650	2500	2580	1630	643	224	237	220	205
20	155	924	2100	1770	1840	2360	1650	611	249	229	229	205
21	156	756	10200	1200	1700	3160	1620	563	344	224	221	204
22	173	1630	8130	1670	2320	4640	1590	553	352	220	218	202
23	196	1640	6190	2030	2290	4800	3410	541	352	219	218	202
24	177	745	4620	7690	2270	8110	3660	505	357	217	217	205
25	207	401	3820	4770	4090	5790	4130	412	359	220	217	205
26	285	321	3230	15400	3350	4990	3270	382	362	220	217	205
27	199	275	2660	9130	5410	6000	5130	382	360	217	217	205
28	187	2860	2000	5560	8650	4730	4460	422	362	215	217	204
29	194	4220	1470	5140	---	4370	3040	413	360	205	217	202
30	518	5920	929	4080	---	5000	2240	415	361	211	220	204
31	263	---	666	3470	---	5710	---	408	---	211	237	---
TOTAL	5487	29451	74518	76099	100210	166190	71490	25427	9525	7886	6625	6301
MEAN	177	982	2404	2455	3579	5361	2383	820	318	254	214	210
MAX	518	5920	10200	15400	8650	10900	5130	1860	1050	346	237	241
MIN	135	202	293	300	1700	2360	1290	382	114	205	202	199
AC-FT	10880	58420	147800	150900	198800	329600	141800	50430	18890	15640	13140	12500
CAL YR 1982	TOTAL	411672	MEAN	1128	MAX	11200	MIN	135	AC-FT	816600		
WTR YR 1983	TOTAL	579209	MEAN	1587	MAX	15400	MIN	114	AC-FT	1149000		

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 Cumisky Creek, and 5.5 mi northwest of Cloverdale.

DRAINAGE AREA.--503 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 350 ft from topographic map. Prior to July 30, 1970, at site 0.2 mi upstream at different datum.

REMARKS.--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) 28 mi upstream.

AVERAGE DISCHARGE.--32 years, 1,020 ft³/s, 739,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft³/s Dec. 22, 1964, gage height, 31.60 ft site and datum then in use; minimum daily, 12 ft³/s Apr. 22, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,200 ft³/s Jan. 26, gage height, 13.65 ft; minimum daily, 155 ft³/s Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	252	4910	823	4130	18600	4920	3190	463	340	241	285
2	175	229	3950	744	3580	15900	3510	2690	563	315	232	267
3	172	308	3590	755	3550	10900	2960	2280	478	324	233	262
4	169	519	2410	1000	2480	8380	2480	1920	583	329	229	252
5	167	537	2110	1140	2630	6840	1990	2130	350	309	237	258
6	168	404	1860	1120	5200	6230	1810	1940	252	256	236	250
7	168	385	1600	652	8850	6570	1610	1710	221	292	240	244
8	167	386	1190	558	8080	5220	1390	1590	226	293	242	241
9	161	383	1070	520	7270	4790	1280	1500	229	288	235	241
10	159	321	694	559	5660	4170	1180	1420	271	298	235	242
11	157	304	589	834	5110	2910	1100	1290	1200	310	237	235
12	155	297	546	857	7380	4210	1010	1200	407	287	237	234
13	159	281	703	855	7320	13300	938	1120	308	281	232	227
14	163	269	924	542	6000	7110	850	1070	267	292	231	231
15	163	266	1230	456	5190	5400	756	1010	246	290	238	230
16	163	266	4070	445	3820	5300	763	906	236	259	235	228
17	164	283	7250	487	4250	6570	774	791	264	255	235	222
18	166	3730	2930	1980	7740	5180	788	795	253	263	237	221
19	165	1900	2040	3770	4760	3330	1040	768	258	262	246	228
20	167	1200	3520	2470	3210	2990	1070	718	282	250	260	224
21	171	929	13700	1800	2500	3920	1040	646	328	240	260	222
22	183	2030	12700	3350	3350	6310	1000	634	359	242	254	221
23	224	2440	10100	4130	3270	7020	5020	613	363	233	251	225
24	205	1140	6170	12800	3380	11300	4440	584	356	229	254	231
25	255	665	4920	6960	5950	7690	5050	502	352	240	245	231
26	358	522	4200	21000	5830	5710	3370	469	348	243	247	230
27	232	471	3470	16200	8820	8630	6470	452	353	236	239	233
28	207	3310	2610	7340	13800	5650	7210	481	351	234	252	237
29	232	7060	1930	7340	---	4890	5140	475	341	231	251	235
30	586	8770	1260	5640	---	5350	4070	469	342	230	250	240
31	333	---	941	4650	---	7080	---	463	---	240	271	---
TOTAL	6300	39857	109187	111777	153110	217450	75029	35826	10850	8391	7522	7127
MEAN	203	1329	3522	3606	5468	7015	2501	1156	362	271	243	238
MAX	586	8770	13700	21000	13800	18600	7210	3190	1200	340	271	285
MIN	155	229	546	445	2480	2910	756	452	221	229	229	221
AC-FT	12500	79060	216600	221700	303700	431300	148800	71060	21520	16640	14920	14140
CAL YR 1982	TOTAL	563669	MEAN	1544	MAX	16700	MIN	155	AC-FT	1118000		
WTR YR 1983	TOTAL	782426	MEAN	2144	MAX	21000	MIN	155	AC-FT	1552000		

RUSSIAN RIVER BASIN

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 mi².

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,420 ft from topographic map.

REMARKS.--Records poor. Diversion for industrial use 150 ft above station when flows are above 10 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,750 ft³/s Dec. 3, 1980, gage height, 6.38 ft; maximum gage height 8.90 ft Jan. 26, 1983; minimum discharge 0.08 Aug. 31, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16	Unknown	1,000	Unknown	Jan. 26	1830	*3,720	8.90
Dec. 21	1345	1,660	6.78	Feb. 28	1945	2,030	Unknown
Jan. 23	Unknown	1,730	Unknown	Mar. 13	0130	1,060	Unknown

Minimum daily, 0.08 ft³/s Aug. 31.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 19	1800	1,190	Unknown	Mar. 31	0400	1,600	Unknown
Feb. 15	2100	1,060	Unknown	Apr. 11	Unknown	*1,860	Unknown

Minimum daily, 0.71 ft³/s Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES
(NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	4.6	66	114	46	210	220	25	9.4	4.2	1.5	1.2
2	.71	3.5	45	100	41	180	425	23	9.2	4.1	1.3	1.1
3	.76	2.8	35	92	35	110	255	21	9.2	4.0	1.2	1.1
4	.76	2.4	30	464	31	93	180	20	9.0	3.9	1.2	1.1
5	.75	2.3	31	250	28	80	155	19	8.8	3.6	1.2	1.0
6	.81	2.3	40	130	26	70	135	17	8.6	3.4	1.2	.96
7	3.2	2.1	49	105	23	66	103	16	8.2	3.2	1.2	.96
8	1.2	2.0	36	90	21	72	94	15	8.1	3.0	1.2	.96
9	.90	1.9	85	78	20	65	84	15	7.9	2.7	1.2	.94
10	1.3	2.0	78	71	19	68	420	14	7.6	2.4	1.2	.80
11	1.0	2.2	58	66	18	72	820	15	7.4	2.5	1.2	.79
12	.87	.44	61	63	17	64	400	16	7.2	2.5	1.2	.83
13	.94	205	67	59	76	62	240	15	7.0	2.4	1.2	.95
14	1.0	.96	77	56	214	61	230	14	6.9	2.2	1.2	.88
15	.85	290	88	54	460	56	165	14	6.5	2.0	1.2	.88
16	.88	470	71	52	270	60	135	14	6.1	1.8	1.2	.88
17	.87	230	60	50	220	66	112	12	5.8	1.9	1.2	1.0
18	.88	180	110	49	130	68	97	11	5.5	2.2	1.2	1.3
19	.85	97	279	53	92	60	85	9.9	5.6	2.1	1.2	1.2
20	.84	59	460	56	72	57	74	9.3	6.4	2.0	1.2	1.0
21	.87	285	347	52	56	54	65	8.9	6.0	1.8	1.2	1.0
22	.83	120	213	49	48	52	58	9.6	5.6	1.8	1.2	.99
23	.88	305	157	51	44	50	52	9.5	5.2	1.8	1.2	.96
24	.88	185	118	52	42	49	47	8.6	4.9	1.5	1.2	.98
25	.85	122	94	52	53	48	43	8.2	4.6	1.5	1.2	1.7
26	.84	100	83	85	58	47	39	7.7	4.6	1.5	1.2	1.4
27	.76	95	85	69	63	48	36	9.4	4.8	1.4	1.2	1.3
28	.70	80	68	86	52	56	32	9.7	4.6	1.3	1.1	1.3
29	.37	75	190	70	---	50	29	9.7	4.4	1.3	1.1	1.3
30	.11	66	120	63	---	460	27	9.7	4.2	1.3	1.1	1.2
31	6.0	---	115	54	---	790	---	9.6	---	1.4	1.2	---
TOTAL	225.28	3132.1	3416	2735	2275	3344	4857	415.8	199.3	72.7	37.3	31.96
MEAN	7.27	104	110	88.2	81.2	108	162	13.4	6.64	2.35	1.20	1.07
MAX	.76	470	460	464	460	790	820	25	9.4	4.2	1.5	1.7
MIN	.71	1.9	30	49	17	47	27	7.7	4.2	1.3	1.1	.79
AC-FT	447	6210	6780	5420	4510	6630	9630	825	395	144	74	63
CAL YR 1981	TOTAL	14873.79	MEAN	40.8	MAX	975	MIN	.71	AC-FT	29510		
WTR YR 1982	TOTAL	20741.44	MEAN	56.8	MAX	820	MIN	.71	AC-FT	41140		

NOTE.--No gage height record April 2-12 and May 28 to July 23.

11463170 BIG SULPHUR CREEK AT GEYSERS RESORT, NEAR CLOVERDALE, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	12	135	26	113	831	150	124	7.8	5.1	3.0	.67
2	1.3	8.5	101	22	105	739	140	95	7.3	5.2	1.9	.79
3	1.3	6.0	76	20	81	581	120	79	7.0	5.2	.12	.97
4	1.2	4.5	55	18	70	373	90	67	6.7	4.9	.12	1.1
5	1.0	3.9	40	17	75	301	54	95	6.4	4.6	.40	1.2
6	1.0	3.5	29	16	265	250	45	72	5.9	4.3	.94	.69
7	1.0	3.3	25	16	494	321	36	60	5.5	4.3	1.2	.56
8	1.0	3.2	25	16	497	255	34	52	6.5	4.3	1.1	.68
9	1.0	3.0	21	16	460	201	32	44	7.0	4.3	.82	.72
10	1.0	2.9	15	16	328	159	31	35	7.0	4.1	.68	.83
11	1.0	2.8	13	16	251	121	30	30	7.3	3.9	.70	1.0
12	1.0	2.7	15	15	501	432	29	28	7.8	3.8	.89	1.1
13	1.0	2.6	17	14	397	1030	28	24	6.9	3.7	.91	1.3
14	1.0	2.6	17	15	283	334	27	22	6.7	3.8	.91	1.1
15	1.0	2.5	45	16	226	197	27	21	6.9	3.6	1.1	1.2
16	1.0	3.5	313	16	176	164	26	19	6.4	3.6	.98	.77
17	1.0	35	302	15	137	182	26	17	6.0	3.6	1.1	.72
18	1.0	249	213	143	433	161	25	15	5.8	3.6	.65	.70
19	1.0	99	127	110	284	118	24	14	5.8	3.6	.48	.71
20	1.0	42	265	70	198	119	24	13	6.0	3.6	.39	1.2
21	1.0	18	755	50	145	119	23	12	6.0	3.6	.58	.98
22	2.9	77	793	132	105	192	23	11	5.9	3.6	.54	.97
23	6.8	94	473	264	96	252	197	10	5.8	3.4	.68	.66
24	3.1	53	282	381	94	346	160	9.6	5.4	3.4	.69	.65
25	74	30	181	226	282	270	158	8.6	5.4	3.4	.69	.60
26	32	18	118	1540	281	188	96	7.5	5.4	3.2	.74	.52
27	11	40	82	480	571	290	174	7.6	6.0	3.1	.77	.49
28	9.2	193	64	204	948	250	215	8.9	5.9	3.1	.75	.55
29	21	197	51	239	---	140	182	9.0	5.3	3.1	.84	.24
30	65	200	39	154	---	151	161	7.7	5.1	3.0	.90	.30
31	19	---	32	126	---	150	---	7.7	---	3.0	.08	---
TOTAL	266.0	1412.5	4719	4409	7896	9217	2387	1025.6	188.9	119.0	25.65	23.97
MEAN	8.58	47.1	152	142	282	297	79.6	33.1	6.30	3.84	.83	.80
MAX	74	249	793	1540	948	1030	215	124	7.8	5.2	3.0	1.3
MIN	1.0	2.5	13	14	70	118	23	7.5	5.1	3.0	.08	.24
AC-FT	528	2800	9360	8750	15660	18280	4730	2030	375	236	51	48
CAL YR 1982	TOTAL	20365.5	MEAN	55.8	MAX	820	MIN	.79	AC-FT	40400		
WTR YR 1983	TOTAL	31689.62	MEAN	86.8	MAX	1540	MIN	.08	AC-FT	62860		

RUSSIAN RIVER BASIN

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 mi².

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 National Geodetic Vertical Datum of 1929.

REMARKS.--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.--44 years, 1,483 ft³/s, 1,074,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,300 ft³/s Dec. 23, 1964, gage height, 27.00 ft; maximum gage height, 30.0 ft Feb. 28, 1940; minimum daily discharge, 17 ft³/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, 62,700 ft³/s Jan. 26, gage height, 24.18 ft; minimum daily, 138 ft³/s Oct. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	392	7460	1580	5970	37400	6900	5330	620	379	232	300
2	171	316	4560	1420	5500	29100	5550	4230	641	382	237	299
3	164	284	4000	1300	5030	22100	4530	3600	659	361	231	289
4	161	354	2990	1380	4190	14900	3890	3050	636	353	223	283
5	156	475	2440	1510	3640	12000	3210	3100	654	344	225	278
6	156	471	2140	1510	6330	9740	2820	3220	477	327	229	302
7	159	402	1910	1310	13000	11800	2490	2580	411	294	230	275
8	157	395	1510	1040	14300	8970	2170	2310	378	300	232	273
9	152	393	1290	953	11500	7740	1960	1730	353	300	231	268
10	148	374	1050	895	9150	7040	1800	1550	369	298	233	266
11	144	334	814	1030	7550	5540	1670	1430	697	295	234	260
12	141	319	716	1140	11400	7030	1560	1660	860	291	233	254
13	138	312	696	1140	10800	25400	1470	1550	490	286	234	249
14	141	297	860	1030	8970	12400	1370	1470	418	281	235	241
15	142	288	1040	834	7540	9130	1260	1380	377	279	231	237
16	144	283	2450	786	6480	8130	1180	1310	354	275	229	234
17	142	300	11100	762	5950	10100	1130	910	318	270	229	235
18	143	4050	4440	2580	9750	9010	1090	820	341	269	233	230
19	145	3270	2820	5420	8090	6120	1220	780	337	272	243	229
20	149	1630	6000	3540	5540	4960	1360	740	337	261	259	230
21	154	1170	13200	2750	4420	5850	1320	690	335	260	266	229
22	166	1380	27800	4590	4460	8170	1240	900	334	256	267	230
23	197	3190	17100	5890	4570	9550	5260	860	333	252	263	232
24	221	1760	9490	24000	4860	14900	5980	840	335	254	262	241
25	258	1130	6950	11400	8510	12700	6970	785	344	251	262	240
26	687	814	5740	29700	9150	9000	4820	710	350	243	261	243
27	398	739	4710	40800	13500	13300	6160	665	358	243	257	243
28	288	2870	3880	13400	21400	9290	9680	655	367	240	258	243
29	260	10700	3060	12400	---	7630	7870	655	373	235	259	245
30	613	10900	2330	9820	---	8180	6580	645	373	231	262	251
31	639	---	1830	7130	---	8950	---	630	---	232	277	---
TOTAL	6911	49592	156376	193040	231550	366130	104510	50785	13229	8814	7557	7629
MEAN	223	1653	5044	6227	8270	11810	3484	1638	441	284	244	254
MAX	687	10900	27800	40800	21400	37400	9680	5330	860	382	277	302
MIN	138	283	696	762	3640	4960	1090	630	318	231	223	229
AC-FT	13710	98370	310200	382900	459300	726200	207300	100700	26240	17480	14990	15130
CAL YR 1982	TOTAL	852916	MEAN	2337	MAX	28200	MIN	138	AC-FT	1692000		
WTR YR 1983	TOTAL	1196123	MEAN	3277	MAX	40800	MIN	138	AC-FT	2373000		

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.

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, 28.0°C July 13; minimum recorded, 7.5°C Dec. 31, Jan. 20.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	15.5	16.5	14.5	10.5	9.5	9.0	8.0	10.5	9.0	12.0	11.5
2	20.0	15.5	16.0	14.0	10.5	9.5	9.0	8.0	10.0	10.0	12.0	11.5
3	20.0	15.5	16.0	13.0	11.5	10.5	10.5	9.0	11.0	10.0	12.0	11.5
4	19.0	16.0	15.5	13.5	12.5	11.0	10.5	9.5	10.5	9.5	13.0	11.5
5	19.0	15.5	15.5	14.0	13.0	12.0	10.0	9.0	11.5	10.0	13.0	12.0
6	17.5	15.5	15.0	14.0	13.5	12.5	9.5	9.0	11.0	10.5	12.0	11.5
7	17.5	14.0	14.5	13.0	12.5	10.5	10.5	9.5	11.0	10.5	12.5	11.5
8	18.5	14.5	13.5	12.0	10.5	9.5	11.0	10.5	11.0	10.5	13.0	12.0
9	19.5	16.0	12.5	12.0	10.5	9.0	10.5	9.5	11.0	10.5	14.0	12.5
10	20.0	16.5	13.0	11.0	10.5	9.0	10.0	9.0	12.0	11.0	13.0	12.5
11	19.5	16.0	13.0	11.0	10.0	9.0	9.5	8.5	12.0	11.0	13.5	12.0
12	19.5	15.5	13.5	12.0	10.0	9.0	9.0	8.0	12.0	11.5	12.5	12.0
13	19.5	16.0	13.0	11.0	10.0	9.0	9.0	8.0	12.0	11.0	13.5	12.5
14	19.5	16.5	12.5	10.5	10.0	9.0	9.0	8.0	12.0	11.0	12.5	11.5
15	18.5	16.5	12.0	10.5	10.5	9.5	10.0	9.0	11.5	11.0	12.5	10.5
16	19.0	16.0	12.5	10.5	11.0	10.5	11.5	10.5	12.5	11.0	11.0	10.5
17	19.0	15.5	12.5	11.5	11.0	10.0	12.0	11.5	12.0	11.0	11.0	10.5
18	18.5	15.0	13.0	12.0	10.0	9.5	12.0	10.0	11.5	11.0	11.5	10.0
19	19.0	16.5	12.5	11.5	10.0	8.5	10.0	8.5	11.5	10.0	13.5	10.5
20	19.0	17.0	12.0	11.0	10.5	9.5	8.5	7.5	12.5	10.5	12.0	11.0
21	18.5	17.5	12.0	10.5	10.5	10.0	9.0	8.0	12.5	11.0	12.0	10.0
22	18.0	17.0	11.5	11.0	10.5	9.5	10.0	9.0	12.5	11.5	12.0	11.0
23	19.5	17.0	12.0	10.5	10.0	9.0	11.0	9.0	12.5	12.0	11.0	10.0
24	19.5	17.0	12.5	11.0	9.0	8.0	11.0	10.5	13.0	11.0	10.5	10.0
25	18.5	17.0	12.0	10.5	9.0	8.0	10.5	10.0	12.0	10.5	11.5	9.5
26	17.0	15.0	12.0	11.0	9.5	9.0	12.0	10.5	11.5	10.5	10.5	10.5
27	16.0	14.0	12.5	11.5	10.5	9.5	11.5	11.0	11.5	11.0	11.5	10.0
28	16.5	14.0	12.5	11.5	10.0	9.0	11.0	10.0	12.0	11.0	11.5	10.5
29	16.0	15.0	11.5	11.0	9.0	8.0	10.5	10.0	---	---	12.0	11.0
30	16.5	15.0	11.0	10.0	9.5	8.0	11.0	10.0	---	---	12.0	11.5
31	16.0	14.5	---	---	9.0	7.5	10.5	10.0	---	---	13.5	11.5
MONTH	20.0	14.0	16.5	10.0	13.5	7.5	12.0	7.5	13.0	9.0	14.0	9.5

RUSSIAN RIVER BASIN

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	12.0	14.5	12.5	---	---	21.5	19.5	25.0	22.5	22.0	19.0
2	13.5	11.5	16.0	12.0	21.5	17.5	22.5	18.5	25.5	23.0	23.0	20.5
3	13.0	10.5	16.5	13.0	21.5	17.0	23.5	20.0	25.0	23.0	23.5	21.0
4	13.5	10.5	---	---	22.0	18.0	25.0	21.0	24.5	22.0	24.0	21.5
5	13.5	11.0	---	---	23.5	18.5	25.0	22.0	25.0	22.0	24.5	22.5
6	14.5	11.0	---	---	24.0	20.0	24.5	21.5	25.5	22.5	24.0	22.0
7	15.0	11.5	---	---	24.5	20.5	22.5	19.5	26.0	24.0	22.5	20.5
8	15.0	12.5	---	---	23.0	19.5	22.5	19.5	25.5	23.5	23.0	19.5
9	14.5	13.0	---	---	24.0	19.0	23.0	19.0	25.5	23.0	22.5	19.0
10	14.0	11.0	---	---	22.5	19.5	25.0	20.5	25.0	23.0	23.0	19.5
11	13.5	11.0	---	---	21.5	17.5	26.0	22.0	25.0	22.5	24.5	20.5
12	13.0	11.0	---	---	22.0	17.0	27.0	22.5	25.0	23.0	25.0	21.0
13	14.0	10.5	---	---	24.0	19.0	28.0	24.0	25.0	23.0	25.0	20.0
14	15.0	11.0	---	---	24.0	19.0	26.5	23.5	24.5	22.0	24.5	19.5
15	15.0	12.0	---	---	24.5	19.0	25.0	21.5	25.5	23.5	24.5	19.5
16	16.0	12.5	---	---	25.5	20.0	25.0	21.5	25.5	23.5	23.0	19.0
17	15.5	13.5	---	---	24.5	19.5	24.0	20.5	25.0	22.5	23.0	18.5
18	14.0	13.0	---	---	23.5	18.0	23.0	20.5	24.0	22.0	23.0	19.0
19	14.5	13.0	---	---	23.5	18.0	22.5	20.0	22.5	21.5	23.5	18.0
20	15.5	13.5	---	---	23.0	18.0	24.0	20.0	23.0	21.0	23.5	18.5
21	16.5	13.0	---	---	23.5	18.0	24.5	21.5	23.0	21.0	22.5	20.0
22	15.5	13.5	---	---	23.5	20.5	24.0	21.5	23.0	21.0	22.0	20.5
23	13.0	11.0	---	---	23.0	20.5	23.5	21.0	23.0	21.0	22.5	19.5
24	12.0	10.5	---	---	23.0	19.5	23.0	21.0	23.0	21.0	23.5	19.0
25	13.0	10.5	---	---	24.0	20.5	24.0	21.0	23.0	21.0	22.5	19.5
26	13.5	11.5	---	---	24.0	21.0	24.0	21.5	23.0	20.5	22.0	19.0
27	12.5	12.0	---	---	23.0	20.0	24.5	22.0	23.5	21.0	22.0	18.0
28	12.5	11.5	---	---	23.5	20.5	25.0	22.5	23.0	21.0	22.5	17.5
29	12.5	12.0	---	---	23.0	20.5	25.0	23.0	23.0	21.0	19.5	18.5
30	13.5	12.0	---	---	23.0	19.5	25.0	22.5	23.0	22.0	19.0	17.5
31	---	---	---	---	---	---	25.0	22.5	22.0	20.0	---	---
MONTH	16.5	10.5	---	---	25.5	17.0	28.0	18.5	26.0	20.0	25.0	17.5

11464400 DRY CREEK NEAR YORKVILLE, CA

LOCATION.--Lat 38°47'21", long 123°19'16", in SE 1/4 NE 1/4 sec.23, T.11 N., R.12 W., Sonoma County, Hydrologic Unit 18010110, on right bank at downstream side of bridge on Hot Springs Road, 0.1 mi downstream from Rail Creek, 7.5 mi west of Cloverdale, and 8.2 mi southeast of Yorkville.

DRAINAGE AREA.--56.0 mi².

PERIOD OF RECORD.--October 1973 to September 1983 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 500 ft from topographic map.

REMARKS.--Records good except those for period of no gage-height record, Feb. 12 to Mar. 17 and July 14 to Aug. 18, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--10 years, 146 ft³/s, 105,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,400 ft³/s Jan. 16, 1974, gage height, 13.50 ft; no flow many days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 28	1715	3,880	7.89	Jan. 26	1500	*9,210	11.05
Dec. 16	2215	4,000	7.97	Mar. 1	0015	Unknown	Unknown
Dec. 21	1330	6,170	9.35	Mar. 13	0315	Unknown	Unknown
Jan. 23	2215	4,470	8.28				

Minimum daily, 0.99 ft³/s Oct. 12-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	24	618	110	480	3300	564	421	41	11	4.9	12
2	1.1	16	352	97	410	4100	436	336	40	12	4.8	7.4
3	1.1	12	260	91	345	2300	342	280	38	12	4.7	5.8
4	1.1	9.9	203	83	295	1500	270	250	36	11	4.6	5.3
5	1.1	9.6	167	77	429	1150	215	310	33	11	4.5	4.2
6	1.1	9.0	136	72	998	780	186	243	29	10	4.3	4.1
7	1.2	8.3	113	68	1280	960	166	209	28	9.9	4.3	4.3
8	1.3	10	97	63	1280	840	152	190	27	9.9	4.2	4.4
9	1.3	11	85	59	984	680	137	170	26	9.9	4.1	4.4
10	1.3	8.7	75	57	749	580	123	156	24	9.9	4.0	4.1
11	1.1	8.3	65	53	625	470	112	144	24	9.1	3.9	4.1
12	.99	8.3	62	51	1450	900	105	134	24	8.5	3.8	3.5
13	.99	8.3	63	49	1250	3900	96	125	20	8.3	3.7	3.0
14	.99	8.3	55	47	950	1200	88	117	20	7.9	3.6	3.1
15	.99	8.3	131	47	860	720	85	107	20	7.7	3.6	3.1
16	.99	8.3	1020	47	770	740	80	99	19	7.5	3.5	3.1
17	1.1	114	1480	45	660	790	78	92	17	7.3	3.4	3.0
18	1.1	1040	690	410	1330	509	75	87	17	7.1	3.4	2.8
19	1.1	311	456	327	1000	419	86	81	17	6.9	5.2	2.8
20	1.1	122	781	218	820	478	85	74	17	6.7	8.2	2.8
21	1.6	72	2720	176	680	423	73	69	16	6.6	6.2	2.8
22	1.9	403	2330	696	580	729	72	65	15	6.3	5.7	2.8
23	5.7	320	1380	1020	550	934	980	63	15	6.2	4.8	3.1
24	4.7	137	733	2050	500	1590	631	60	15	6.0	4.8	3.4
25	87	83	441	881	800	1130	484	56	14	5.8	4.8	3.1
26	68	57	326	4470	1300	815	325	52	13	5.7	4.8	3.0
27	24	104	260	2300	2500	1430	739	50	12	5.6	4.5	2.8
28	16	1160	203	1060	4800	810	783	47	12	5.4	4.4	3.1
29	95	1140	168	1170	---	569	569	46	12	5.3	4.4	2.9
30	203	1110	144	860	---	768	562	44	12	5.1	4.4	2.8
31	46	---	126	620	---	768	---	43	---	5.0	12	---
TOTAL	575.05	6341.3	15740	17374	28675	36282	8699	4220	653	246.6	147.5	117.1
MEAN	18.6	211	508	560	1024	1170	290	136	21.8	7.95	4.76	3.90
MAX	203	1160	2720	4470	4800	4100	980	421	41	12	12	12
MIN	.99	8.3	55	45	295	419	72	43	12	5.0	3.4	2.8
AC-FT	1140	12580	31220	34460	56880	71970	17250	8370	1300	489	293	232
CAL YR 1982	TOTAL	76926.0	MEAN	211	MAX	4750	MIN	.99	AC-FT	152600		
WTR YR 1983	TOTAL	119070.55	MEAN	326	MAX	4800	MIN	.99	AC-FT	236200		

RUSSIAN RIVER BASIN

11464860 WARM SPRINGS CREEK NEAR ASTI, CA

LOCATION.--Lat 38°41'46", long 123°05'44", in SW 1/4 SE 1/4 sec.20, T.10 N., R.11 W., Sonoma County, Hydrologic Unit 18010110, on left bank 0.6 mi upstream from Strawberry Creek, and 7.9 mi southwest of Asti.

DRAINAGE AREA.--12.2 mi².

PERIOD OF RECORD.--October 1973 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 625 ft from topographic map.

REMARKS.--Records good except for periods of no or faulty gage height record, Jan. 26, Apr. 8-14, June 1-5, Aug. 20-29, and Sept. 30 which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--10 years, 34.8 ft³/s, 25,210 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,660 ft³/s Jan. 26, 1983, by computation of peak flow using the slope-area method, gage height, 12.15 ft (backwater from debris dam); no flow many days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 21	1245	1,190	7.74	Feb. 28	1845	2,250	9.72
Jan. 23	2045	1,610	8.59	Mar. 13	0245	1,540	8.46
Jan. 26	Unknown	*2,660	12.15				

Minimum daily, 0.30 ft³/s Oct. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	3.4	98	25	162	793	121	108	11	4.5	2.0	2.2
2	.33	2.6	60	22	147	887	89	90	11	4.8	1.9	1.8
3	.31	2.3	44	21	132	521	73	76	10	4.3	1.7	1.4
4	.31	2.1	34	19	119	301	53	66	10	3.9	1.6	1.3
5	.31	2.0	29	18	145	209	40	68	9.0	3.7	1.6	1.2
6	.36	1.9	24	16	281	171	31	55	8.1	3.5	1.5	1.2
7	.47	1.9	21	15	405	215	26	48	8.1	3.5	1.5	1.3
8	.42	3.0	18	14	431	194	25	43	8.2	3.6	1.4	1.4
9	.38	2.4	17	13	331	153	24	39	7.7	3.4	1.4	1.2
10	.35	2.1	15	13	239	132	24	36	7.4	3.3	1.4	1.2
11	.34	2.0	13	12	217	106	23	33	6.9	3.1	1.4	1.1
12	.33	1.9	13	12	378	257	23	30	6.5	2.9	1.3	1.0
13	.30	1.9	12	11	293	783	25	28	6.0	2.7	1.3	1.0
14	.30	1.9	11	11	209	259	24	26	5.6	2.5	1.2	.98
15	.31	1.9	21	10	193	155	24	24	5.7	2.4	1.2	.95
16	.34	2.0	186	11	167	137	23	23	6.0	2.4	1.2	.95
17	.35	13	225	11	148	144	22	21	5.8	2.5	1.1	.99
18	.40	134	92	60	289	152	22	20	5.7	2.6	1.2	.99
19	.44	40	60	47	213	126	24	19	5.6	2.7	2.1	.97
20	.54	20	133	33	171	126	21	18	5.4	2.6	1.5	.94
21	.70	13	489	29	142	116	20	17	5.2	2.5	1.5	.99
22	1.6	44	512	113	122	161	20	16	5.0	2.4	1.4	1.1
23	1.8	43	272	359	122	216	177	16	5.0	2.4	1.3	1.2
24	.90	25	140	475	109	330	107	15	4.8	2.4	1.3	1.1
25	19	17	92	199	257	238	93	14	4.7	2.4	1.3	1.1
26	7.2	14	68	1230	264	170	76	14	4.4	2.3	1.2	1.1
27	3.2	19	53	655	455	291	155	13	4.4	2.3	1.2	1.2
28	2.2	205	43	321	1050	178	152	13	4.4	2.2	1.1	1.2
29	10	209	37	289	---	137	121	13	4.3	2.1	1.1	1.3
30	14	192	32	232	---	150	129	12	4.1	2.1	1.9	1.7
31	5.4	---	28	189	---	152	---	12	---	2.1	3.7	---
TOTAL	73.23	1023.3	2892	4485	7191	7960	1787	1026	196.0	90.1	46.5	36.06
MEAN	2.36	34.1	93.3	145	257	257	59.6	33.1	6.53	2.91	1.50	1.20
MAX	19	209	512	1230	1050	887	177	108	11	4.8	3.7	2.2
MIN	.30	1.9	11	10	109	106	20	12	4.1	2.1	1.1	.94
AC-FT	145	2030	5740	8900	14260	15790	3540	2040	389	179	92	72
CAL YR 1982	TOTAL	17580.76	MEAN	48.2	MAX	788	MIN	.30	AC-FT	34870		
WTR YR 1983	TOTAL	26806.19	MEAN	73.4	MAX	1230	MIN	.30	AC-FT	53170		

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 from county road bridge, and 5.0 mi west of Geyserville.

DRAINAGE AREA.--131 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to September 1942 (published as "Dry Creek near Healdsburg"), October 1981 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 188 ft from topographic map. Prior to Sept. 30, 1942, nonrecording gage at site 500 ft downstream at different datum.

REMARKS.--Records good. Flow slightly regulated by Warm Springs Dam since 1981, 500 ft upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,500 ft³/s Feb. 28, 1940, gage height, 16.9 ft, datum then in use; minimum daily, no flow Oct. 1 to Dec. 8, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 21.8 ft from floodmarks, discharge about 25,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,110 ft³/s Mar. 3, gage height, 9.48 ft; minimum daily, 5.3 ft³/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	65	1790	116	120	880	1330	1030	92	28	12	21
2	5.7	42	1160	116	24	880	1640	828	72	30	11	19
3	5.7	32	698	116	644	2840	1230	652	68	30	11	14
4	5.8	26	474	140	866	4950	863	561	66	28	11	12
5	5.5	22	370	163	651	4650	853	571	64	26	9.7	10
6	5.7	20	310	163	691	4230	841	570	140	26	9.7	9.6
7	6.1	18	258	163	760	2350	828	470	65	24	9.6	8.5
8	6.2	19	214	163	760	1260	815	414	65	24	8.7	9.0
9	6.5	21	171	163	680	1800	795	378	67	24	8.3	8.5
10	6.7	20	144	163	573	1820	775	250	59	24	8.2	8.3
11	6.6	18	120	159	655	1020	666	75	52	23	8.4	8.2
12	6.7	16	107	159	755	983	596	85	46	22	8.1	8.3
13	6.5	15	107	109	755	3330	584	245	76	21	7.9	7.9
14	6.5	15	97	95	755	4100	574	445	85	20	7.7	7.8
15	6.6	15	86	95	644	2920	564	274	74	19	7.7	7.4
16	6.8	15	132	95	559	1700	552	74	65	19	7.4	7.3
17	6.7	21	181	169	561	1680	537	104	53	19	7.4	7.3
18	6.6	989	127	1040	660	1160	500	107	44	19	7.3	7.2
19	6.2	933	135	555	774	560	470	108	41	20	9.1	7.2
20	6.5	490	146	222	775	567	455	237	39	21	14	7.1
21	7.1	230	916	187	775	703	384	359	37	20	14	6.9
22	9.8	283	2920	978	775	1100	372	183	36	20	12	7.0
23	14	695	2160	2130	775	2020	886	69	35	19	11	8.1
24	17	424	1400	3870	602	3380	1390	70	34	18	9.8	9.0
25	26	269	1390	3690	674	2910	1500	62	33	17	9.6	9.1
26	128	165	1360	4080	880	1750	1270	59	32	16	9.3	8.2
27	61	157	514	4650	880	2320	1180	60	30	15	9.0	8.3
28	33	806	96	4430	880	2620	1390	116	30	14	8.8	8.4
29	28	1970	96	4120	---	2190	1270	86	30	14	9.9	7.5
30	236	2070	106	2570	---	1260	1160	81	29	13	11	8.4
31	140	---	116	895	---	1020	---	78	---	12	12	---
TOTAL	824.8	9881	17901	35764	18903	64953	26270	8701	1659	645	300.6	276.5
MEAN	26.6	329	577	1154	675	2095	876	281	55.3	20.8	9.70	9.22
MAX	236	2070	2920	4650	880	4950	1640	1030	140	30	14	21
MIN	5.3	15	86	95	24	560	372	59	29	12	7.3	6.9
AC-FT	1640	19600	35510	70940	37490	128800	52110	17260	3290	1280	596	548
CAL YR 1982	TOTAL	142507.1	MEAN	390	MAX	3330	MIN	3.1	AC-FT	282700		
WTR YR 1983	TOTAL	186078.9	MEAN	510	MAX	4950	MIN	5.3	AC-FT	369200		

RUSSIAN RIVER BASIN

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, 27.0°C July 11, August 5, 6, 8, 12, 15; minimum recorded, 8.5°C Dec. 12-15, Jan. 4, 17, 18.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	17.0	15.5	14.5	11.5	11.0	9.5	9.5	11.5	11.5	12.0	11.5
2	19.5	16.5	15.5	14.0	11.0	10.5	9.5	9.0	12.0	11.0	12.0	12.0
3	19.5	16.5	15.0	13.5	10.5	10.5	9.0	9.0	11.0	11.0	12.0	12.0
4	18.5	17.0	15.5	14.0	12.0	10.5	9.0	8.5	11.0	11.0	12.5	12.0
5	19.5	17.0	16.5	14.5	12.0	11.5	9.0	9.0	11.0	11.0	12.5	12.0
6	18.5	17.0	15.5	14.0	13.0	11.5	9.0	9.0	11.0	10.5	12.5	12.0
7	18.0	16.0	14.5	13.5	12.5	12.0	9.0	9.0	11.0	11.0	12.5	12.5
8	18.5	16.0	14.0	13.5	11.5	10.5	9.0	9.0	11.0	11.0	12.5	12.5
9	19.0	16.5	13.5	13.0	10.5	10.0	9.5	9.0	11.0	11.0	12.5	12.5
10	19.0	16.5	14.0	12.5	10.0	9.0	9.5	9.0	11.0	11.0	12.5	12.5
11	19.0	16.5	13.5	11.5	9.5	9.0	9.0	9.0	11.0	11.0	13.0	12.5
12	19.0	17.0	13.5	12.0	9.0	8.5	9.0	9.0	11.5	11.0	13.0	12.5
13	19.0	17.0	13.5	12.0	9.0	8.5	9.0	9.0	11.5	11.5	13.0	13.0
14	18.5	17.0	12.5	11.5	9.0	8.5	9.0	9.0	11.5	11.5	13.0	13.0
15	18.0	17.0	12.5	11.5	9.0	8.5	9.0	9.0	12.0	11.5	13.0	12.5
16	18.5	16.5	12.5	11.5	10.0	9.0	9.0	9.0	11.5	11.5	12.5	12.0
17	19.0	17.0	11.5	11.5	11.0	9.5	9.0	8.5	11.5	11.5	12.5	12.5
18	18.5	16.5	12.0	11.5	11.0	10.5	9.0	8.5	12.0	11.5	12.5	12.0
19	18.5	17.0	12.0	12.0	10.5	10.5	9.0	9.0	12.0	12.0	12.0	12.0
20	18.0	17.5	12.0	11.5	11.0	10.5	9.0	9.0	12.0	11.5	12.0	11.5
21	18.0	17.5	11.5	11.5	11.0	10.5	9.0	9.0	12.0	11.5	12.0	11.5
22	18.0	17.0	11.5	11.0	11.0	10.5	9.0	9.0	11.5	11.5	12.0	11.5
23	18.5	17.0	11.0	10.0	10.5	10.5	9.0	9.0	11.5	11.5	12.0	11.5
24	19.0	17.5	11.0	10.5	10.5	10.5	10.0	9.0	12.0	11.5	12.0	11.5
25	17.5	17.0	11.5	11.0	10.5	10.5	10.0	9.5	12.0	11.5	11.5	11.5
26	17.5	17.0	11.0	11.0	10.5	10.0	11.0	10.0	12.0	11.5	11.5	11.0
27	17.0	16.5	11.0	10.5	10.0	10.0	11.5	11.0	11.5	11.5	11.5	11.0
28	17.0	16.0	11.5	11.0	10.0	10.0	11.5	11.5	11.5	11.5	11.5	11.0
29	16.0	15.0	12.0	11.5	10.0	10.0	11.5	11.5	---	---	11.0	11.0
30	16.5	15.0	12.0	12.0	10.0	9.5	11.5	11.5	---	---	---	---
31	16.0	15.0	---	---	9.5	9.5	11.5	11.5	---	---	---	---
MONTH	19.5	15.0	16.5	10.0	13.0	8.5	11.5	8.5	12.0	10.5	13.0	11.0

11465000 DRY CREEK BELOW WARM SPRINGS DAM, NEAR GEYSERVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---			---	---	23.5	21.0	26.0	23.0	24.0	21.5
2	---	---			---	---	24.0	20.5	26.0	23.0	24.5	22.0
3	---	---			---	---	25.5	21.5	26.5	23.0	25.5	22.0
4	---	---			---	---	25.5	21.5	26.5	22.5	25.5	22.5
5	---	---			---	---	25.0	21.0	27.0	23.0	25.0	23.0
6	---	---			---	---	23.5	21.5	27.0	22.5	24.5	22.0
7	---	---			---	---	23.0	21.0	26.5	23.5	23.5	22.0
8	---	---			---	---	24.5	20.0	27.0	23.0	23.5	21.0
9	---	---			23.0	21.0	25.5	21.0	26.5	23.5	23.0	20.0
10	---	---			23.0	20.5	26.0	22.0	26.0	23.0	23.5	20.0
11	---	---			23.5	20.5	27.0	22.5	26.0	23.0	24.5	21.0
12	---	---			23.5	21.0	---	---	27.0	23.0	25.0	22.0
13	---	---			22.0	21.0	---	---	26.0	23.0	24.5	22.0
14	---	---			25.0	21.0	26.0	23.5	26.5	22.5	24.5	21.5
15	---	---			23.5	21.0	26.0	22.0	27.0	23.5	24.0	21.5
16	---	---			24.0	21.5	25.0	22.0	27.0	23.5	23.5	21.0
17	---	---			23.0	21.0	25.0	22.0	26.0	23.0	23.0	20.5
18	---	---			23.0	20.0	24.0	22.0	25.0	23.0	23.0	20.5
19	---	---			23.0	20.0	23.5	21.5	24.0	22.5	23.5	20.5
20	---	---			23.0	20.0	25.5	21.0	25.0	23.0	23.5	20.0
21	15.5	14.0			24.0	20.5	25.0	22.0	25.0	23.5	23.5	20.5
22	14.0	13.0			23.0	21.0	24.5	22.0	25.5	23.0	22.5	21.5
23	---	---			24.5	20.0	24.5	21.5	25.5	22.5	22.0	21.0
24	---	---			24.0	21.5	25.0	21.5	25.5	22.5	23.0	20.5
25	---	---			24.0	21.5	25.0	21.5	25.0	22.5	22.5	21.0
26	---	---			24.5	21.0	25.5	22.0	25.5	22.0	22.0	20.5
27	---	---			23.5	21.5	25.5	22.5	24.5	22.0	22.5	20.0
28	---	---			23.5	21.0	25.5	22.5	25.0	21.5	22.0	20.0
29	---	---			23.5	21.0	26.0	22.5	24.0	22.0	22.0	20.0
30	---	---			22.5	21.0	25.5	22.5	23.5	22.0	20.0	19.5
31	---	---			---	---	26.0	22.5	22.5	21.0	---	---
MONTH	---	---			---	---	27.0	20.0	27.0	21.0	25.5	19.5

RUSSIAN RIVER BASIN

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 195 ft from topographic map.

REMARKS.--Records good. No regulation; some small diversion for irrigation of less than 200 acres in summer months.

AVERAGE DISCHARGE.--5 years, 60.2 ft³/s, 43,610 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,710 ft³/s Jan. 26, 1983, gage height 9.01 ft; minimum daily, no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 950 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 28	1715	1,700	6.63	Jan. 26	1545	*4,710	9.01
Dec. 16	2300	2,000	6.90	Feb. 28	2030	3,300	8.00
Dec. 21	1415	2,590	7.43	Mar. 13	0400	2,880	7.64
Jan. 23	2300	3,270	7.98	Mar. 27	0400	1,040	5.66

Minimum daily, no flow many days.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 16	2100	1,070	5.86	Feb. 15	2145	2,700	7.52
Nov. 21	1415	1,070	5.86	Mar. 31	0500	2,610	7.45
Dec. 19	1845	*3,540	8.18	Apr. 11	0015	2,040	6.95
Jan. 4	1015	2,640	7.47				

Minimum daily, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES (NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.5	34	205	65	307	439	38	8.7	.98		
2	0	1.1	29	254	58	279	665	37	7.3	.88		
3	0	.77	25	250	51	222	458	34	6.5	.59		
4	0	.57	22	1570	46	189	268	32	6.0	.50		
5	0	.39	20	596	40	164	192	29	6.0	.38		
6	0	.26	19	270	37	152	156	27	5.8	.27		
7	0	.15	19	175	33	141	130	25	4.8	.19		
8	0	.10	17	129	31	152	113	22	4.3	.13		
9	0	.05	43	104	29	141	100	21	4.5	.09		
10	0	.17	64	89	27	141	535	19	4.8	.02		
11	0	.69	52	77	25	150	1120	18	4.8	0		
12	0	17	60	69	23	136	398	15	4.7	0		
13	0	136	67	59	35	127	374	13	4.3	0		
14	0	72	55	51	118	125	373	13	3.6	0		
15	0	365	57	47	1170	123	240	10	3.4	0		
16	0	478	51	43	890	130	177	8.0	3.4	0		
17	0	325	45	41	364	123	146	7.4	3.1	0		
18	0	98	516	42	237	113	124	6.9	2.5	0		
19	0	45	2240	62	194	107	109	7.9	2.5	0		
20	0	28	1290	116	173	102	92	7.7	2.3	0		
21	0	526	396	99	157	98	79	7.4	2.1	0		
22	0	253	217	78	139	93	73	10	1.8	0		
23	0	419	158	70	129	89	65	10	1.7	0		
24	0	307	127	63	119	86	60	8.4	1.5	0		
25	0	148	108	58	106	86	57	7.9	1.3	0		
26	0	106	95	77	112	83	52	8.2	1.3	0		
27	4.4	97	87	66	102	79	49	8.1	1.2	0		
28	27	67	77	99	88	91	45	7.0	.94	0		
29	10	50	332	86	---	103	43	8.3	1.0	0		
30	4.0	40	240	80	---	450	41	7.1	1.0	0		
31	2.3	---	211	72	---	1420	---	7.4	---	0		
TOTAL	47.7	3582.75	6773	5097	4598	5802	6773	480.7	107.14	4.03	0	0
MEAN	1.54	119	218	164	164	187	226	15.5	3.57	.13	0	0
MAX	27	526	2240	1570	1170	1420	1120	38	8.7	.98	0	0
MIN	0	.05	17	41	23	79	41	6.9	.94	0	0	0
AC-FT	95	7110	13430	10110	9120	11510	13430	953	213	8.0	0	0
CAL YR 1981	TOTAL	18006.81	MEAN	49.3	MAX	2240	MIN	0	AC-FT	35720		
WTR YR 1982	TOTAL	33265.32	MEAN	91.1	MAX	2240	MIN	0	AC-FT	65980		

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	2.2	136	50	208	1380	155	149	18	5.3		
2	0	1.8	89	46	188	1340	134	128	17	5.3		
3	0	1.4	66	42	169	800	116	107	15	5.0		
4	0	1.1	50	39	153	424	104	92	14	4.2		
5	0	.96	41	36	165	291	93	95	14	3.8		
6	0	.88	33	34	312	231	84	78	13	3.1		
7	0	.80	27	32	530	332	76	65	11	3.1		
8	0	1.0	23	31	574	235	68	59	11	2.8		
9	0	1.1	19	29	419	193	63	54	10	2.5		
10	0	.88	17	27	279	167	58	51	10	2.0		
11	0	.78	15	26	230	144	54	47	10	1.4		
12	0	.76	14	25	458	347	51	45	9.4	.70		
13	0	.67	14	24	318	1440	47	43	8.9	.18		
14	0	.67	12	23	228	432	44	41	8.0	.22		
15	0	.72	20	23	206	269	41	37	7.9	.13		
16	0	.69	330	23	177	236	36	36	7.7	0		
17	0	2.3	461	24	147	276	34	34	7.0	0		
18	0	181	167	135	258	277	33	33	6.6	.03		
19	0	55	121	130	187	218	34	31	6.4	.01		
20	0	25	242	95	152	221	32	29	6.1	0		
21	0	15	899	82	128	207	31	28	5.8	0		
22	0	53	1060	232	110	274	28	26	5.7	0		
23	0	69	479	624	103	342	219	25	6.2	0		
24	0	33	221	1130	88	455	152	24	6.6	0		
25	10	21	152	372	376	342	137	24	7.5	0		
26	6.9	15	120	2340	278	250	112	22	7.5	0		
27	2.9	19	100	1090	735	477	147	22	6.6	0		
28	1.7	353	84	451	1590	269	185	22	6.6	0		
29	2.5	279	73	404	---	208	155	21	6.6	0		
30	12	262	64	303	---	186	174	21	5.7	0		
31	2.8	---	56	245	---	178	---	20	---	0		
TOTAL	38.8	1398.71	5205	8167	8766	12441	2697	1509	275.8	39.77	0	0
MEAN	1.25	46.6	168	263	313	401	89.9	48.7	9.19	1.28	0	0
MAX	12	353	1060	2340	1590	1440	219	149	18	5.3	0	0
MIN	0	.67	12	23	88	144	28	20	5.7	0	0	0
AC-FT	77	2770	10320	16200	17390	24680	5350	2990	547	79	0	0
CAL YR 1982	TOTAL	29504.38	MEAN	80.8	MAX	1570	MIN	0	AC-FT	58520		
WTR YR 1983	TOTAL	40538.08	MEAN	111	MAX	2340	MIN	0	AC-FT	80410		

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.--

SEDIMENT RECORDS: October 1978 to current year.

REMARKS.--Sediment and water temperature tables for 1982 water year are included with the 1983 data. Zero bedload discharge observed at flows less than 32 ft³/s.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily, 3,940 mg/L Jan. 26, 1983; minimum daily mean, no flow for many days in 1979-83.

SEDIMENT DISCHARGE: Maximum daily, 32,600 tons Jan. 26, 1983; minimum daily, 0 tons many days in 1979-83.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,940 mg/L Jan. 26; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE: Maximum daily, 32,600 tons Jan. 26; minimum daily, 0 tons many days.

EXTREMES FOR 1982 WATER YEAR (NOT PREVIOUSLY PUBLISHED).--

SEDIMENT CONCENTRATION: Maximum daily mean, 2,560 mg/L Dec. 19; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE: Maximum daily, 17,200 tons Dec. 19; minimum daily, 0 tons many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

ONCE-DAILY
(NOT PREVIOUSLY PUBLISHED)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	8.5	9.0	8.0	12.0	10.0	12.0	15.0	17.5		
2	---	---	9.0	9.0	8.0	11.0	10.0	11.5	15.0	17.5		
3	---	---	9.5	8.5	8.5	10.0	11.5	13.0	14.0	17.0		
4	---	---	10.0	9.5	7.5	10.0	10.0	14.0	15.0	16.0		
5	---	---	10.0	11.0	6.0	9.0	10.0	14.0	15.0	17.5		
6	---	---	11.0	9.0	5.5	9.0	9.0	14.5	15.0	17.5		
7	---	---	12.0	7.5	6.5	10.0	8.5	14.0	14.5	17.0		
8	---	---	12.0	7.5	6.5	11.5	9.0	13.5	15.0	17.0		
9	---	---	11.0	7.5	8.0	11.5	10.0	12.0	15.5	17.0		
10	---	---	10.0	7.5	7.0	12.0	12.0	12.5	16.0	18.0		
11	---	---	8.0	8.0	6.0	12.0	12.5	12.0	15.5	---		
12	---	---	8.5	8.0	6.0	10.5	12.0	12.0	15.0	---		
13	---	---	11.0	7.5	10.0	10.0	12.0	14.0	15.5	---		
14	---	13.5	12.0	7.5	11.0	11.5	12.0	14.0	16.5	---		
15	---	14.5	12.5	7.0	12.0	9.0	10.5	14.0	17.5	---		
16	---	15.5	9.0	8.0	12.0	8.5	10.5	14.0	17.0	---		
17	---	14.5	9.0	8.0	12.5	9.0	11.0	15.5	17.0	---		
18	---	10.5	10.5	8.0	10.5	9.0	11.0	13.0	17.0	---		
19	---	10.0	13.0	7.0	11.5	8.0	11.5	14.5	17.0	---		
20	---	13.0	13.5	8.0	13.0	8.0	12.0	15.0	17.0	---		
21	---	13.5	12.5	7.5	13.0	8.0	12.0	15.0	17.0	---		
22	---	13.5	10.0	6.5	10.0	8.5	12.0	15.5	17.5	---		
23	---	14.0	10.5	9.0	9.0	9.0	12.0	15.5	17.5	---		
24	---	12.5	10.5	8.0	8.0	9.0	10.5	17.5	18.0	---		
25	---	11.0	10.0	9.0	8.5	9.0	11.5	17.5	17.5	---		
26	---	11.0	10.0	10.0	10.0	10.0	13.0	17.0	18.0	---		
27	---	10.5	11.0	7.0	11.0	10.0	11.0	15.0	17.5	---		
28	13.0	9.0	9.0	9.0	10.5	10.0	11.5	15.0	17.5	---		
29	---	8.0	10.5	7.0	---	8.5	12.0	15.5	17.0	---		
30	---	8.0	12.0	7.0	---	8.5	12.0	16.0	17.0	---		
31	---	---	12.0	7.5	---	10.0	---	15.5	---	---		
MONTH	---	---	10.5	8.0	9.0	9.5	11.0	14.5	16.5	---		

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	---	---	1.5	7	.03	34	4	.37
2	0	---	---	1.1	7	.02	29	2	.16
3	0	---	---	.77	6	.01	25	2	.14
4	0	---	---	.57	6	.01	22	2	.12
5	0	---	---	.39	5	.01	20	1	.05
6	0	---	---	.26	5	0	19	2	.10
7	0	---	---	.15	4	0	19	2	.10
8	0	---	---	.10	4	0	17	2	.09
9	0	---	---	.05	3	0	43	12	2.6
10	0	---	---	.17	2	0	64	12	2.1
11	0	---	---	.69	1	0	52	6	.84
12	0	---	---	17	47	3.0	60	4	.65
13	0	---	---	136	208	208	67	4	.72
14	0	---	---	72	64	22	55	5	.74
15	0	---	---	365	352	523	57	5	.77
16	0	---	---	478	393	742	51	3	.41
17	0	---	---	325	235	329	45	3	.36
18	0	---	---	98	16	4.2	516	631	2490
19	0	---	---	45	7	.85	2240	2560	17200
20	0	---	---	28	5	.38	1290	1600	6730
21	0	---	---	526	1050	2000	396	400	428
22	0	---	---	253	126	105	217	110	.64
23	0	---	---	419	608	975	158	43	.18
24	0	---	---	307	163	170	127	31	.11
25	0	---	---	148	24	9.6	108	13	3.8
26	0	---	---	106	11	3.1	95	8	2.1
27	4.4	50	5.4	97	9	2.4	87	9	2.1
28	27	278	32	67	9	1.6	77	5	1.0
29	10	15	.41	50	4	.54	332	642	798
30	4.0	9	.10	40	3	.32	240	162	110
31	2.3	8	.05	---	---	---	211	95	59
TOTAL	47.70	---	---	3582.75	---	5100.07	6773	---	27927.32

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	205	108	62	65	2	.35	307	---	220
2	254	92	63	58	1	.16	279	---	160
3	250	179	160	51	1	.14	222	31	19
4	1570	1800	8690	46	5	.62	189	15	7.7
5	596	807	1560	40	1	.11	164	8	3.5
6	270	208	160	37	1	.10	152	7	2.9
7	175	64	30	33	2	.18	141	5	1.9
8	129	27	9.4	31	1	.08	152	11	4.5
9	104	14	3.9	29	2	.16	141	5	1.9
10	89	10	2.4	27	2	.15	141	7	2.7
11	77	10	2.1	25	1	.07	150	7	2.8
12	69	4	.75	23	1	.06	136	4	1.5
13	59	3	.48	35	29	3.4	127	4	1.4
14	51	3	.41	118	112	69	125	3	1.0
15	47	3	.38	1170	1370	6170	123	6	2.0
16	43	2	.23	890	1100	3190	130	---	5.9
17	41	1	.11	364	282	295	123	5	1.7
18	42	2	.23	237	70	45	113	2	.61
19	62	17	3.5	194	25	13	107	2	.58
20	116	18	5.6	173	16	7.5	102	3	.83
21	99	6	1.6	157	12	5.1	98	2	.53
22	78	4	.84	139	4	1.5	93	2	.50
23	70	4	.76	129	7	2.4	89	3	.72
24	63	6	1.0	119	4	1.3	86	6	1.4
25	58	4	.63	106	5	1.4	86	2	.46
26	77	18	4.1	112	3	.91	83	1	.22
27	66	5	.89	102	4	1.1	79	1	.21
28	99	15	4.2	88	3	.71	91	---	1.1
29	86	5	1.2	---	---	---	103	---	2.0
30	80	10	2.2	---	---	---	450	---	690
31	72	4	.78	---	---	---	1420	1360	6390
TOTAL	5097	---	10772.69	4598	---	9809.50	5802	---	7529.56

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	439	420	498	38	7	.72	8.7	1	.02
2	665	1030	2260	37	4	.40	7.3	1	.02
3	458	499	622	34	8	.73	6.5	0	0
4	268	170	128	32	1	.09	6.0	2	.03
5	192	61	32	29	8	.63	6.0	1	.02
6	156	31	13	27	2	.15	5.8	0	0
7	130	22	7.7	25	1	.07	4.8	2	.03
8	113	10	3.1	22	1	.06	4.3	0	0
9	100	6	1.6	21	3	.17	4.5	0	0
10	535	575	1880	19	7	.36	4.8	2	.03
11	1120	1330	4520	18	10	.49	4.8	0	0
12	398	550	591	15	2	.08	4.7	0	0
13	374	459	473	13	1	.04	4.3	0	0
14	373	390	415	13	0	0	3.6	1	.01
15	240	117	76	10	5	.14	3.4	1	.01
16	177	44	21	8.0	0	0	3.4	1	.01
17	146	23	9.1	7.4	2	.04	3.1	0	0
18	124	14	4.7	6.9	4	.07	2.5	1	.01
19	109	13	3.8	7.9	0	0	2.5	1	.01
20	92	5	1.2	7.7	0	0	2.3	2	.01
21	79	3	.64	7.4	0	0	2.1	0	0
22	73	0	0	10	1	.03	1.8	1	0
23	65	3	.53	10	2	.05	1.7	1	0
24	60	0	0	8.4	2	.05	1.5	0	0
25	57	0	0	7.9	1	.02	1.3	0	0
26	52	0	0	8.2	0	0	1.3	1	0
27	49	0	0	8.1	0	0	1.2	1	0
28	45	6	.73	7.0	3	.06	.94	1	0
29	43	5	.58	8.3	4	.09	1.0	0	0
30	41	4	.44	7.1	5	.10	1.0	1	0
31	---	---	---	7.4	2	.04	---	---	---
TOTAL	6773	---	11563.12	480.7	---	4.68	107.14	---	.21

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.98	1	0						
2	.88	0	0						
3	.59	1	0						
4	.50	1	0						
5	.38	1	0						
6	.27	2	0						
7	.19	1	0						
8	.13	1	0						
9	.09	1	0						
10	.02	2	0						
11	0	---	---						
12	0	---	---						
13	0	---	---						
14	0	---	---						
15	0	---	---						
16	0	---	---						
17	0	---	---						
18	0	---	---						
19	0	---	---						
20	0	---	---						
21	0	---	---						
22	0	---	---						
23	0	---	---						
24	0	---	---						
25	0	---	---						
26	0	---	---						
27	0	---	---						
28	0	---	---						
29	0	---	---						
30	0	---	---						
31	0	---	---						
TOTAL	4.03	---	---						
YEAR	33265.32		72745						

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued.

SUMMARY OF WATER AND SEDIMENT DISCHARGE. WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
(NOT PREVIOUSLY PUBLISHED)

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1981	47.70	37.96	0	38
NOVEMBER....	3582.75	5100.07	1270	6370
DECEMBER....	6773.00	27927.32	3130	31000
JANUARY 1982	5097.00	10772.69	1720	12500
FEBRUARY....	4598.00	9809.50	1680	11500
MARCH.....	5802.00	7529.56	1640	9170
APRIL.....	6773.00	11563.12	2560	14200
MAY.....	480.70	4.68	0	5
JUNE.....	107.14	.21	0	0
JULY.....	4.03	0	0	0
AUGUST.....	0	0	0	0
SEPTEMBER...	0	0	0	0
TOTAL.....	33265.32	72745.11	12000	84783

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- PEN- DED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PEN- DED (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 .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
OCT 28...	1130	17	13.0	209	9.5	--	--	--	--	--	--
NOV 16...	1210	216	15.5	112	65	--	--	--	--	--	--
DEC 19...	0830	1620	13.5	1530	6690	18	25	32	42	55	65
DEC 21...	1145	380	13.0	326	334	23	30	41	51	63	--
JAN 04...	1020	2610	9.5	2640	18600	--	19	25	33	42	52
JAN 05...	1400	510	12.5	452	622	18	25	33	43	53	--
MAR 01...	1310	334	12.0	266	240	36	44	54	64	74	--
MAR 31...	1145	1390	11.0	1180	4430	--	21	29	40	52	63

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. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 4.00 MM
OCT 28...	99	--	100	--	--	--	--	--	--	--	--
NOV 16...	94	--	99	--	100	--	--	--	--	--	--
DEC 19...	--	83	--	95	--	99	--	100	--	--	--
DEC 21...	69	--	80	--	89	--	91	--	92	93	100
JAN 04...	--	64	--	82	--	95	--	100	--	--	--
JAN 05...	62	--	76	--	94	--	100	--	--	--	--
MAR 01...	81	--	90	--	98	--	100	--	--	--	--
MAR 31...	--	80	--	96	--	100	--	--	--	--	--

RUSSIAN RIVER BASIN

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, 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)	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
MAR								
01...	1220	12.0	5	334	--	--	1	6
31...	1100	11.0	5	1390	--	--	1	2
SEP								
30...	1300	--	4	.00	1	1	4	10

DATE	1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM	64.0 MM
MAR							
01...	12	21	35	55	79	94	100
31...	7	14	27	52	85	100	--
SEP							
30...	15	22	32	44	64	86	100

PARTICLE-SIZE DISTRIBUTION OF 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)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
OCT								
28...	1145	13.0	--	17	47.0	.00	--	--
JAN								
05...	1400	12.5	22	504	70.0	96	1	13
MAR								
01...	1240	12.0	22	350	70.0	148	--	3
JUN								
04...	1555	21.5	--	5.9	21.0	.00	--	--

DATE	.500 MM	1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM
OCT							
28...	--	--	--	--	--	--	--
JAN							
05...	30	33	37	46	67	94	100
MAR							
01...	12	25	41	64	89	100	--
JUN							
04...	--	--	--	--	--	--	--

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

[illegible]

RUSSIAN RIVER BASIN

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	---	---	2.2	3	.02	136	15	5.5
2	0	---	---	1.8	3	.01	89	4	.96
3	0	---	---	1.4	3	.01	66	3	.53
4	0	---	---	1.1	3	.01	50	3	.41
5	0	---	---	.96	3	.01	41	3	.33
6	0	---	---	.88	2	0	33	2	.18
7	0	---	---	.80	2	0	27	2	.15
8	0	---	---	1.0	2	.01	23	2	.12
9	0	---	---	1.1	1	0	19	2	.10
10	0	---	---	.88	1	0	17	1	.05
11	0	---	---	.79	1	0	15	1	.04
12	0	---	---	.76	1	0	14	1	.04
13	0	---	---	.67	1	0	14	1	.04
14	0	---	---	.67	1	0	12	1	.03
15	0	---	---	.72	1	0	20	12	.65
16	0	---	---	.69	1	0	330	608	2270
17	0	---	---	2.3	125	1.6	461	1140	2040
18	0	---	---	181	457	279	167	199	97
19	0	---	---	55	60	8.9	121	35	12
20	0	---	---	25	9	.61	242	222	264
21	0	---	---	15	4	.16	899	1540	5870
22	0	---	---	53	37	9.2	1060	1460	5530
23	0	---	---	69	17	3.2	479	460	595
24	0	---	---	33	4	.36	221	76	45
25	10	91	11	21	3	.17	152	21	8.6
26	6.9	155	4.3	15	3	.12	120	9	2.9
27	2.9	37	.29	19	2	.10	100	6	1.6
28	1.7	22	.10	353	685	1320	84	5	1.1
29	2.5	17	.14	279	229	197	73	4	.79
30	12	38	1.8	262	103	81	64	3	.52
31	2.8	5	.04	---	---	---	56	3	.45
TOTAL	38.80	---	---	1398.71	---	1901.49	5205	---	16748.09

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	50	3	.41	208	61	34	1380	2810	12000
2	46	2	.25	188	30	15	1340	1750	6570
3	42	1	.13	169	12	5.5	800	535	1160
4	39	1	.12	153	8	3.3	424	195	223
5	36	1	.11	165	20	8.9	291	90	71
6	34	1	.11	312	156	163	231	59	43
7	32	0	0	530	311	523	332	174	169
8	31	0	0	574	321	543	235	50	32
9	29	0	0	419	392	460	193	25	13
10	27	0	0	279	195	147	167	16	7.2
11	26	1	.08	230	120	81	144	11	4.3
12	25	2	.16	458	286	363	347	352	663
13	24	1	.08	318	172	148	1440	3060	15200
14	23	0	0	228	118	73	432	750	875
15	23	0	0	206	79	44	269	325	236
16	23	0	0	177	53	25	236	97	62
17	24	0	0	147	39	15	276	77	67
18	135	74	45	258	77	59	277	80	60
19	130	25	9.5	187	39	20	218	31	18
20	95	3	.84	152	32	13	221	53	38
21	82	2	.49	128	29	10	207	85	48
22	232	191	180	110	28	8.3	274	183	153
23	624	887	5010	103	44	12	342	179	219
24	1130	1440	5610	88	33	7.8	455	208	256
25	372	366	397	376	685	954	342	118	109
26	2340	3940	32600	278	313	250	250	82	55
27	1090	1520	5160	735	1050	2560	477	683	1020
28	451	595	740	1590	3590	19900	269	136	99
29	404	408	458	---	---	---	208	72	40
30	303	183	150	---	---	---	186	50	25
31	245	104	69	---	---	---	178	30	14
TOTAL	8167	---	50431.28	8766	---	26445.8	12441	---	39549.5

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	155	14	5.9	149	49	20	18	1	.05
2	134	5	1.8	128	32	11	17	1	.05
3	116	2	.63	107	17	4.9	15	3	.12
4	104	2	.56	92	5	1.2	14	6	.23
5	93	2	.50	95	15	4.1	14	9	.34
6	84	2	.45	78	8	1.7	13	12	.42
7	76	2	.41	65	4	.70	11	9	.27
8	68	2	.37	59	3	.48	11	4	.12
9	63	2	.34	54	2	.29	10	1	.03
10	58	2	.31	51	4	.55	10	1	.03
11	54	2	.29	47	6	.76	10	2	.05
12	51	2	.28	45	6	.73	9.4	2	.05
13	47	2	.25	43	5	.58	8.9	2	.05
14	44	2	.24	41	5	.55	8.0	2	.04
15	41	2	.22	37	4	.40	7.9	1	.02
16	36	2	.19	36	4	.39	7.7	1	.02
17	34	2	.18	34	4	.37	7.0	1	.02
18	33	3	.27	33	3	.27	6.6	1	.02
19	34	3	.28	31	3	.25	6.4	2	.03
20	32	2	.17	29	2	.16	6.1	2	.03
21	31	2	.17	28	2	.15	5.8	2	.03
22	28	2	.15	26	2	.14	5.7	2	.03
23	219	362	269	25	2	.14	6.2	3	.05
24	152	155	63	24	2	.13	6.6	4	.07
25	137	65	24	24	2	.13	7.5	4	.08
26	112	35	11	22	3	.18	7.5	5	.10
27	147	105	47	22	2	.12	6.6	5	.09
28	185	129	70	22	1	.06	6.6	4	.07
29	155	68	28	21	1	.06	6.6	4	.07
30	174	72	34	21	1	.06	5.7	4	.06
31	---	---	---	20	1	.05	---	---	---
TOTAL	2697	---	559.96	1509	---	50.60	275.8	---	2.64

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.3	4	.06						
2	5.3	4	.06						
3	5.0	4	.05						
4	4.2	4	.05						
5	3.8	4	.04						
6	3.1	4	.03						
7	3.1	4	.03						
8	2.8	4	.03						
9	2.5	4	.03						
10	2.0	4	.02						
11	1.4	4	.02						
12	.70	4	.01						
13	.18	3	0						
14	.22	3	0						
15	.13	3	0						
16	0	---	---						
17	0	---	---						
18	.03	3	0						
19	.01	3	0						
20	0	---	---						
21	0	---	---						
22	0	---	---						
23	0	---	---						
24	0	---	---						
25	0	---	---						
26	0	---	---						
27	0	---	---						
28	0	---	---						
29	0	---	---						
30	0	---	---						
31	0	---	---						
TOTAL	39.77	---	---						

YEAR 40538.08

135707

RUSSIAN RIVER BASIN

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

MONTH	WATER DISCHARGE CFS-DAY	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1982	38.8	17.67	0	18
NOVEMBER....	1398.71	1901.49	414	2320
DECEMBER....	5205.00	16748.09	2080	18800
JANUARY 1983	8167.00	50431.28	4000	54400
FEBRUARY....	8766.00	26445.80	3520	30000
MARCH.....	12441.00	39549.50	5630	45200
APRIL.....	2697.00	559.96	304	864
MAY.....	1509.00	50.60	59	110
JUNE.....	275.80	2.64	0	3
JULY.....	39.77	.43	0	0
AUGUST.....	0	0	0	0
SEPTEMBER...	0	0	0	0
TOTAL.....	40538.08	135707.46	16007	151715

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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
NOV 30...	1525	240	12.0	59	38	--	--	--
DEC 22...	1045	860	11.5	1800	4180	15	18	26
JAN 25...	1340	326	12.0	151	133	--	--	--
MAR 21...	1615	205	13.0	69	38	--	--	--

DATE	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 30...	--	89	95	100	--	--	--
DEC 22...	36	48	66	85	95	98	100
JAN 25...	--	71	83	96	99	100	--
MAR 21...	--	73	84	95	100	--	--

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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
DEC								
22...	1245	11.5	8	2040	86.0	2020	4	14
JAN								
25...	1415	12.0	22	326	67.0	65	4	15
MAR								
21...	1630	13.0	22	205	67.0	24	2	13

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
DEC							
22...	20	24	30	43	66	94	100
JAN							
25...	25	44	65	81	95	100	--
MAR							
21...	26	43	66	87	99	100	--

RUSSIAN RIVER BASIN

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 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CA-65-1: 1962(M), 1963(M).

GAGE.--Water-stage recorder. Datum of gage is 156.40 ft, National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1964, at datum 4.00 ft higher. Prior to Apr. 8, 1976, at datum 3.00 ft higher. Prior to Oct. 1, 1982, at datum 2.00 ft higher.

REMARKS.--Records good. Some regulation by coffer dam at Warm Springs Dam construction site. Small diversions above station for orchard irrigation of about 1,200 acres in summer.

AVERAGE DISCHARGE.--24 years, 342 ft³/s, 248,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,400 ft³/s Jan. 31, 1963, gage height, 20.50 ft present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 8,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 26	1600	*11,800	13.87
Feb. 28	2015	9,670	12.89

Minimum daily, 1.1 ft³/s Oct 18-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	79	2150	306	671	7130	1450	1250	132	35	10	18
2	20	52	1510	290	1150	7330	1710	1010	108	34	10	19
3	21	35	990	268	1410	6470	1360	840	103	33	9.9	16
4	20	27	582	282	1160	5800	951	730	97	31	9.9	14
5	20	21	430	325	964	5280	918	721	91	29	9.8	12
6	20	18	339	323	1510	4810	891	711	163	28	9.4	11
7	20	15	284	318	3480	3200	875	586	94	27	9.4	9.7
8	12	15	250	313	4870	1810	883	509	89	27	8.9	8.8
9	2.2	15	214	307	2780	2090	847	455	92	26	8.2	8.7
10	1.7	15	174	301	1100	2150	870	344	85	25	8.2	8.1
11	1.5	14	144	298	1400	1460	772	177	78	23	7.6	7.7
12	1.3	12	114	292	2380	1550	661	182	72	22	7.2	7.5
13	1.3	11	111	243	2290	5000	608	312	95	21	7.2	7.0
14	1.3	11	98	193	3140	4830	592	525	110	19	7.2	6.7
15	1.2	10	90	197	2480	3510	593	368	98	17	6.9	6.7
16	1.2	9.5	424	199	924	2130	582	142	90	16	6.3	6.7
17	1.2	14	743	260	887	2140	560	172	79	16	6.3	6.7
18	1.1	1100	335	1080	1620	1730	514	175	73	17	6.3	6.7
19	1.1	1070	253	1150	2040	1050	486	174	68	17	7.2	6.9
20	1.1	538	453	523	1610	1040	471	280	62	17	13	6.9
21	1.3	270	1780	367	1180	1080	401	424	54	17	14	6.4
22	3.0	345	4110	1160	1370	1490	383	252	43	17	13	6.3
23	10	805	3410	2400	1810	2320	1130	122	39	18	11	6.0
24	14	482	1980	5710	1130	3880	1520	119	39	18	9.5	6.3
25	36	298	1880	4820	2370	3500	1620	110	39	17	8.6	6.7
26	137	198	1800	7990	3060	2090	1420	102	39	16	8.2	6.7
27	87	176	1010	6600	2800	2820	1380	101	38	15	8.2	6.5
28	51	1060	331	5510	5480	2880	1630	154	37	14	8.2	6.6
29	44	2520	300	5150	---	2470	1500	132	37	13	8.2	6.1
30	216	2680	310	3250	---	1610	1420	125	36	12	8.5	5.9
31	151	---	319	1340	---	1310	---	121	---	11	9.9	---
TOTAL	908.1	11915.5	26918	51765	57066	95960	28998	11425	2280	648	276.2	258.3
MEAN	29.3	397	868	1670	2038	3095	967	369	76.0	20.9	8.91	8.61
MAX	216	2680	4110	7990	5480	7330	1710	1250	163	35	14	19
MIN	1.1	9.5	90	193	671	1040	383	101	36	11	6.3	5.9
AC-FT	1800	23630	53390	102700	113200	190300	57520	22660	4520	1290	548	512
CAL YR 1982	TOTAL	178222.1	MEAN	488	MAX	4380	MIN	.40	AC-FT	353500		
WTR YR 1983	TOTAL	288418.1	MEAN	790	MAX	7990	MIN	1.1	AC-FT	572100		

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.

INSTRUMENTATION.--Temperature recorder since November 1964.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 28.5°C June 15, 1980; minimum recorded, 3.5°C Jan. 3, 1974.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 15,000 mg/L (estimated) Dec. 22, 1964; minimum daily mean, no flow many days in 1964, 1966, 1970-82.

SEDIMENT DISCHARGE: Maximum daily, 830,000 tons, estimated, Dec. 22, 1964; minimum daily, 0 tons many days in 1964, 1966, 1968-83.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 26.5°C July 4; minimum recorded, 9.5°C, many days in January.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,100 mg/L Mar. 2; minimum daily mean, 1 mg/L several days during October, November, and September.

SEDIMENT DISCHARGE: Maximum daily, 22,600 tons Jan. 26; minimum daily, 0 ton several days during October.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	14.5	17.0	15.0	12.0	11.5	11.0	10.0	13.0	12.0	12.0	12.0
2	17.5	13.0	16.5	14.0	11.5	11.0	11.0	10.0	12.5	12.0	12.0	12.0
3	18.0	13.0	16.0	13.5	11.0	10.5	11.5	10.5	12.0	11.5	12.0	12.0
4	18.5	14.5	16.0	13.0	12.0	11.0	11.0	10.0	12.0	11.5	12.0	12.0
5	19.5	15.5	16.0	13.5	12.5	11.5	10.5	10.0	12.0	11.5	12.0	12.0
6	17.5	15.0	16.0	14.0	13.0	12.0	10.5	10.0	12.0	11.5	12.0	12.0
7	18.5	15.0	14.5	13.5	12.5	11.5	11.0	10.0	12.0	11.5	12.5	12.0
8	19.5	15.0	14.0	13.0	12.0	11.0	11.0	10.0	12.0	12.0	12.5	12.5
9	19.5	15.5	13.5	12.0	11.5	10.5	11.0	10.0	12.5	12.0	12.5	12.5
10	19.5	15.5	14.0	12.0	11.0	10.0	11.0	10.0	12.5	12.0	12.5	12.5
11	19.0	15.5	14.0	11.5	11.0	10.0	10.5	10.0	12.5	12.0	12.5	12.5
12	19.0	15.0	14.0	12.0	10.5	9.5	10.5	10.0	12.5	12.0	12.5	12.0
13	19.0	15.5	13.5	11.5	10.5	9.5	11.0	9.5	12.5	12.0	13.0	12.5
14	18.5	16.0	13.0	11.5	10.5	10.0	11.0	10.0	12.5	12.0	13.0	12.5
15	17.5	16.0	13.0	11.5	10.5	10.0	11.0	10.0	12.5	12.0	12.5	12.5
16	18.0	15.0	13.0	11.0	11.5	10.5	11.5	10.5	13.0	12.0	12.5	12.5
17	18.0	15.5	13.0	12.5	12.0	11.0	11.0	10.5	12.5	12.0	12.5	12.0
18	18.0	15.0	12.5	11.5	11.5	11.0	10.5	9.5	12.5	12.0	12.5	12.0
19	18.0	16.0	12.5	12.0	11.5	10.5	10.5	9.5	12.5	12.0	12.5	12.0
20	18.0	16.5	12.5	11.5	11.5	11.0	11.0	10.0	12.0	12.0	12.0	11.5
21	18.0	16.5	12.0	11.5	11.5	11.5	11.0	10.5	12.0	12.0	12.0	11.5
22	17.0	16.5	12.0	11.0	11.5	11.5	10.5	9.5	12.0	12.0	12.0	11.5
23	19.0	17.0	11.5	11.0	11.5	11.5	10.0	9.5	12.0	12.0	---	---
24	19.0	16.5	12.0	11.0	11.5	11.5	10.5	10.0	12.5	12.0	---	---
25	18.5	16.5	12.0	11.0	11.5	11.0	10.5	10.5	12.0	11.5	---	---
26	18.0	16.5	11.5	11.0	11.0	10.5	10.5	10.5	12.0	12.0	---	---
27	17.5	15.5	11.5	11.5	12.5	10.5	11.0	10.5	12.0	12.0	---	---
28	17.5	15.0	11.5	11.0	12.0	11.5	11.5	11.0	12.0	12.0	---	---
29	16.5	15.0	12.0	11.5	12.0	11.0	11.5	11.5	---	---	---	---
30	17.0	14.5	12.0	11.5	11.5	10.5	12.0	11.5	---	---	---	---
31	17.0	15.5	---	---	11.0	10.0	13.0	12.0	---	---	---	---
MONTH	19.5	13.0	17.0	11.0	13.0	9.5	13.0	9.5	13.0	11.5	---	---

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	15.0	13.0	---	---	---	---	25.0	19.5	23.0	18.5
2	---	---	15.5	14.0	---	---	24.0	18.0	24.5	19.5	24.0	19.0
3	---	---	14.5	12.5	22.5	15.5	25.0	17.5	---	---	24.5	19.0
4	---	---	15.0	13.0	23.5	18.0	26.5	19.0	---	---	24.5	20.0
5	---	---	15.0	13.0	25.0	18.0	26.0	19.0	---	---	24.5	20.0
6	12.5	12.0	15.0	12.5	25.0	20.0	24.5	18.5	---	---	22.5	20.5
7	13.0	12.0	15.5	12.5	24.0	19.0	23.0	18.0	---	---	---	---
8	13.5	12.0	16.5	12.5	24.5	19.0	24.0	17.5	---	---	---	---
9	13.5	12.5	17.5	13.0	22.5	17.5	24.0	17.5	---	---	---	---
10	13.5	12.5	18.5	14.0	23.5	17.5	---	---	---	---	---	---
11	13.5	12.0	18.5	15.5	24.5	19.5	---	---	---	---	---	---
12	13.5	12.0	18.5	14.5	24.0	19.0	---	---	---	---	---	---
13	13.5	12.0	20.5	16.0	25.5	19.5	---	---	---	---	---	---
14	13.5	12.5	20.5	17.0	24.5	18.5	---	---	---	---	---	---
15	14.0	12.5	21.5	17.0	24.0	17.5	---	---	---	---	---	---
16	13.5	12.5	23.5	18.5	24.5	17.5	---	---	---	---	---	---
17	14.0	12.5	21.0	17.0	24.5	18.5	---	---	---	---	---	---
18	15.0	13.5	20.5	16.5	25.0	17.5	---	---	---	---	---	---
19	---	---	22.5	17.0	25.5	18.5	22.5	18.0	---	---	---	---
20	---	---	23.5	17.5	25.0	19.0	23.5	18.0	23.5	20.0	---	---
21	---	---	23.5	17.5	24.5	18.5	24.5	18.5	23.5	19.5	---	---
22	14.0	13.5	24.0	18.0	24.5	18.5	24.0	19.5	24.0	19.5	---	---
23	13.0	12.0	23.0	18.5	24.5	18.0	23.5	19.0	24.0	19.5	---	---
24	13.0	12.0	23.5	18.5	24.0	17.5	24.0	19.0	---	---	---	---
25	13.0	12.0	24.0	18.0	---	---	24.0	18.5	---	---	---	---
26	12.5	11.5	22.5	18.0	---	---	24.0	18.5	---	---	---	---
27	12.5	12.0	---	---	---	---	24.0	19.0	---	---	---	---
28	13.0	12.0	---	---	---	---	24.5	17.0	---	---	---	---
29	13.0	12.0	---	---	---	---	24.5	19.5	---	---	---	---
30	14.0	12.0	---	---	---	---	24.0	19.5	---	---	---	---
31	---	---	---	---	---	---	24.5	19.5	---	---	---	---
MONTH	---	---	24.0	12.5	---	---	---	---	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8.6	10	.37	79	48	10	2150	150	871
2	20	10	.54	52	46	6.5	1510	89	363
3	21	8	.45	35	42	4.0	990	73	195
4	20	7	.38	27	39	2.8	582	58	91
5	20	5	.27	21	37	2.1	430	42	49
6	20	4	.22	18	34	1.7	339	30	27
7	20	3	.16	15	31	1.3	284	24	18
8	12	2	.06	15	28	1.1	250	21	14
9	2.2	1	.01	15	25	1.0	214	18	10
10	1.7	1	0	15	22	.89	174	13	6.1
11	1.5	1	0	14	32	1.2	144	12	4.7
12	1.3	1	0	12	14	.45	114	11	3.4
13	1.3	1	0	11	9	.27	111	9	2.7
14	1.3	1	0	11	4	.12	98	7	1.9
15	1.2	1	0	10	1	.03	90	8	1.9
16	1.2	1	0	9.5	1	.03	424	110	334
17	1.2	1	0	14	22	1.1	743	165	331
18	1.1	1	0	1100	418	1310	335	27	24
19	1.1	1	0	1070	278	803	253	20	14
20	1.1	1	0	538	135	196	453	82	134
21	1.3	1	0	270	59	43	1780	384	2670
22	3.0	3	.02	345	215	246	4110	710	8770
23	10	3	.08	805	166	361	3410	618	5690
24	14	1	.04	482	54	70	1980	399	2130
25	36	19	3.9	298	25	20	1880	312	1580
26	137	75	28	198	14	7.5	1800	248	1210
27	87	50	12	176	17	8.8	1010	186	507
28	51	35	4.8	1060	973	5460	331	125	112
29	44	35	4.7	2520	553	3760	300	70	57
30	216	89	54	2680	268	1940	310	30	25
31	151	65	27	---	---	---	319	21	18
TOTAL	908.1	---	137.00	11915.5	---	14259.89	26918	---	25264.7

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	306	20	17	671	322	583	7130	1090	21300
2	290	20	16	1150	289	897	7330	1100	21900
3	268	19	14	1410	261	994	6470	779	13600
4	282	19	14	1160	240	752	5800	669	10500
5	325	18	16	964	222	578	5280	601	8570
6	323	18	16	1510	391	1860	4810	542	7040
7	318	18	15	3480	732	7670	3200	495	4280
8	313	18	15	4870	620	8150	1810	457	2230
9	307	17	14	2780	241	1810	2090	420	2370
10	301	17	14	1100	147	437	2150	388	2250
11	298	17	14	1400	258	1190	1460	357	1410
12	292	16	13	2380	389	2500	1550	441	2060
13	243	16	10	2290	227	1400	5000	1050	14000
14	193	15	7.8	3140	468	4810	4830	723	9430
15	197	15	8.0	2480	401	2690	3510	479	4540
16	199	15	8.1	924	159	397	2130	352	2020
17	260	32	25	887	135	323	2140	291	1680
18	1080	300	1280	1620	432	2130	1730	234	1090
19	1150	216	671	2040	320	1760	1050	182	516
20	523	59	83	1610	198	861	1040	160	457
21	367	48	48	1180	157	500	1080	172	512
22	1160	338	1340	1370	167	658	1490	273	1100
23	2400	395	3280	1810	171	836	2320	482	3360
24	5710	567	8740	1130	149	455	3880	699	7600
25	4820	420	5470	2370	508	3800	3500	520	4910
26	7990	957	22600	3060	434	3730	2090	422	2380
27	6600	999	17800	2800	592	4580	2820	567	4340
28	5510	690	10300	5480	933	16800	2880	439	3410
29	5150	502	6980	---	---	---	2470	342	2280
30	3250	412	3620	---	---	---	1610	299	1300
31	1340	363	1310	---	---	---	1310	261	923
TOTAL	51765	---	83758.9	57066	---	73151	95960	---	163358

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1450	232	908	1250	209	705	132	5	1.8
2	1710	208	960	1010	184	502	108	4	1.2
3	1360	186	683	840	162	367	103	4	1.1
4	951	161	413	730	141	278	97	4	1.0
5	918	141	349	721	122	237	91	4	.98
6	891	131	315	711	110	211	163	4	1.8
7	875	121	286	586	96	152	94	5	1.3
8	883	111	265	509	82	113	89	5	1.2
9	847	100	229	455	68	84	92	6	1.5
10	870	88	207	344	54	50	85	7	1.6
11	772	77	160	177	40	19	78	8	1.7
12	661	66	118	182	37	18	72	10	1.9
13	608	56	92	312	35	29	95	11	2.8
14	592	46	74	525	32	45	110	10	3.0
15	593	36	58	368	30	30	98	10	2.6
16	582	40	63	142	27	10	90	9	2.2
17	560	43	65	172	24	11	79	8	1.7
18	514	46	64	175	22	10	73	8	1.6
19	486	50	66	174	19	8.9	68	7	1.3
20	471	54	69	280	17	13	62	7	1.2
21	401	57	62	424	17	19	54	6	.87
22	383	49	52	252	16	11	43	6	.70
23	1130	250	866	122	15	4.9	39	6	.63
24	1520	251	1040	119	14	4.5	39	6	.63
25	1620	263	1150	110	12	3.6	39	6	.63
26	1420	245	939	102	10	2.8	39	6	.63
27	1380	287	1080	101	14	3.8	38	6	.62
28	1630	353	1570	154	17	7.1	37	6	.60
29	1500	302	1220	132	14	5.0	37	5	.50
30	1420	242	928	125	10	3.4	36	5	.49
31	---	---	---	121	6	2.0	---	---	---
TOTAL	28998	---	14351	11425	---	2960.0	2280	---	39.78

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	35	5	.47	10	2	.05	18	5	.24
2	34	5	.46	10	2	.05	19	5	.26
3	33	5	.45	9.9	2	.05	16	6	.26
4	31	5	.42	9.9	2	.05	14	6	.23
5	29	5	.39	9.8	2	.05	12	6	.19
6	28	5	.38	9.4	2	.05	11	6	.18
7	27	5	.36	9.4	3	.08	9.7	6	.16
8	27	5	.36	8.9	4	.10	8.8	6	.14
9	26	5	.35	8.2	4	.09	8.7	6	.14
10	25	5	.34	8.2	4	.09	8.1	6	.13
11	23	5	.31	7.6	4	.08	7.7	6	.12
12	22	5	.30	7.2	4	.08	7.5	6	.12
13	21	5	.28	7.2	4	.08	7.0	6	.11
14	19	5	.26	7.2	4	.08	6.7	7	.13
15	17	4	.18	6.9	4	.07	6.7	7	.13
16	16	4	.17	6.3	5	.09	6.7	7	.13
17	16	3	.13	6.3	5	.09	6.7	7	.13
18	17	2	.09	6.3	5	.09	6.7	7	.13
19	17	2	.09	7.2	5	.10	6.9	7	.13
20	17	2	.09	13	5	.18	6.9	7	.13
21	17	2	.09	14	5	.19	6.4	7	.12
22	17	2	.09	13	5	.18	6.3	7	.12
23	18	2	.10	11	5	.15	6.0	7	.11
24	18	2	.10	9.5	5	.13	6.3	2	.03
25	17	2	.09	8.6	5	.12	6.7	3	.05
26	16	2	.09	8.2	5	.11	6.7	2	.04
27	15	2	.08	8.2	5	.11	6.5	1	.02
28	14	2	.08	8.2	5	.11	6.6	1	.02
29	13	2	.07	8.2	5	.11	6.1	1	.02
30	12	2	.06	8.5	5	.11	5.9	1	.02
31	11	2	.06	9.9	5	.13	---	---	---
TOTAL	648	---	6.79	276.2	---	3.05	258.3	---	3.74
YEAR 288418.1			377293.9						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1982	908.10	137.00	0	137
NOVEMBER....	11915.50	14259.89	519	14800
DECEMBER....	26918.00	25264.70	1460	26700
JANUARY 1983	51765.00	83758.90	6380	90100
FEBRUARY....	57066.00	73151.00	4180	77300
MARCH.....	95960.00	163358.00	10600	174000
APRIL.....	28998.00	14351.00	802	15200
MAY.....	11425.00	2960.00	127	3090
JUNE.....	2280.00	39.78	0	40
JULY.....	648.00	6.79	0	7
AUGUST.....	276.20	3.05	0	3
SEPTEMBER...	258.30	3.74	0	4
TOTAL.....	288418.10	377293.85	24068	401381

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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								
30...	1335	2630	12.0	269	1910	58	74	82
DEC								
08...	1245	250	11.5	21	14	--	--	--
JAN								
24...	1405	5430	10.0	508	7450	38	51	59
27...	1245	6480	11.5	1040	18200	--	53	68
27...	1650	7800	12.0	978	20600	49	65	77
MAR								
21...	1340	949	12.0	124	318	--	--	--
29...	1205	2750	12.0	325	2410	45	54	56
APR								
21...	1240	449	15.5	57	69	--	--	--

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								
30...	86	89	91	95	98	100	--	--
DEC								
08...	--	--	97	100	--	--	--	--
JAN								
24...	65	69	77	84	92	98	100	--
27...	74	80	86	92	98	100	--	--
27...	82	84	86	92	99	100	--	--
MAR								
21...	--	--	84	88	94	99	100	--
29...	59	62	65	72	81	88	92	95
APR								
21...	--	--	84	89	96	100	--	--

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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								
03...	1340	15.0	--	36	29.0	--	--	--
MAR								
21...	1445	12.0	19	949	--	95	2	11

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							
03...	--	--	--	--	--	--	--
MAR							
21...	20	33	52	75	89	93	100

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAK- 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
JAN												
24...	1445	10.0	5	5430	--	2	10	23	35	48	74	100
27...	1315	12.5	5	6480	--	1	5	17	37	63	92	100
MAR												
29...	1315	11.5	5	2750	2	11	15	21	38	63	83	100

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY,
WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAK- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	TUR- BID- ITY (NTU)
NOV						
03...	1340	37	15.0	42	4.2	32
11...	1530	15	--	102	4.0	80
22...	1400	266	--	385	277	230
30...	1115	2790	--	323	2440	170
DEC						
22...	1450	6560	--	975	17300	200
JAN						
02...	1210	325	--	94	82	90
06...	0925	322	--	86	75	80
07...	0855	318	--	83	71	65
08...	0835	313	--	81	68	80
10...	1205	302	--	102	83	90
11...	0825	300	--	95	77	90
12...	1340	291	--	92	72	80
13...	0940	287	--	91	71	95
14...	1650	194	--	89	47	80
17...	1720	320	--	77	67	70
20...	1715	393	--	69	73	60
21...	1210	365	--	59	58	50
24...	1410	5440	--	486	7140	200
25...	1600	4740	--	365	4670	160
27...	1246	5760	--	1040	16200	350
27...	1650	6150	12.0	978	16200	450
28...	1430	5740	--	667	10300	260
31...	1100	896	--	367	888	230
FEB						
04...	0810	1380	--	245	912	180
09...	1600	1300	--	177	621	85
10...	1100	1090	--	380	1120	110
11...	0910	999	--	336	906	100
14...	0905	2160	--	207	1210	90
15...	1730	1160	--	291	914	160
16...	1530	912	--	138	340	90
17...	1700	883	--	131	312	100
18...	0715	1240	--	237	795	120
21...	1330	1190	--	153	490	100
22...	1730	1810	--	256	1250	95
23...	1625	1830	--	160	789	75
24...	1500	689	--	865	1610	100
25...	1700	4690	--	773	9780	110

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY,
WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, DIS- CHARGE		TUR- BID- ITY (NTU)
				SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, SUS- PENDE (T/DAY)	
FEB						
28...	1145	5030	--	682	9270	200
MAR						
01...	1100	7130	--	1000	19200	220
03...	1500	6430	--	748	13000	180
21...	1342	954	--	118	304	90
21...	1352	949	--	140	359	95
29...	1206	2750	--	341	2530	130
APR						
15...	1510	616	--	36	60	28
19...	1135	473	--	128	163	50
21...	1240	449	15.5	57	69	30
26...	1045	1410	--	248	943	170
28...	1710	1310	--	--	--	220
MAY						
02...	1130	1120	--	183	554	95
06...	1030	722	--	111	216	70
11...	1030	179	--	40	19	18
21...	0920	441	--	17	20	10
24...	0925	120	--	14	4.5	9.0
26...	1400	103	--	10	2.0	4.0
28...	1150	242	--	17	11	10
31...	1140	122	--	6	2.0	2.0
JUN						
02...	1220	108	--	4	1.2	7.0
06...	0935	91	--	4	.99	1.0
09...	1010	94	--	6	1.5	3.0
13...	1620	117	--	11	3.5	4.0
16...	1335	88	--	9	2.1	3.0
21...	0940	57	--	6	.92	3.0
22...	1300	44	--	6	.71	1.0
27...	1140	38	--	5	.52	3.0
27...	1205	38	--	6	.62	2.0
29...	1310	37	--	5	.50	2.0
JUL						
11...	1035	24	--	5	.32	1.0
14...	0940	20	--	5	.27	1.0
18...	1400	17	--	2	.09	1.0
29...	1355	13	--	2	.07	1.0
AUG						
23...	1200	12	--	5	.17	1.0
23...	1210	12	--	5	.17	2.0
SEP						
23...	1030	5.6	--	7	.11	1.0
24...	1000	6.3	--	2	.03	1.0
25...	1005	6.7	--	3	.05	1.0
26...	1000	6.7	--	2	.04	1.0
26...	1020	6.7	--	2	.04	1.0
27...	1020	6.7	--	1	.02	1.0
29...	0900	6.3	--	1	.02	1.0
30...	0920	5.3	--	1	.01	1.0

RUSSIAN RIVER BASIN

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, and 1.7 mi south of Healdsburg.

DRAINAGE AREA.--217 m².

PERIOD OF RECORD.--November 1980 to current year (low flow only).

GAGE.--Water-stage recorder. Altitude of gage is 50 ft from topographic map.

REMARKS.--Records poor. No records computed above 200 ft³/s.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	90						---	142	34	3.3	8.7
2	0	65						---	132	33	2.8	12
3	0	55						---	121	32	1.5	13
4	0	47						---	112	32	.39	11
5	0	41						---	105	30	.04	8.2
6	0	38						---	97	26	0	6.0
7	0	36						---	90	26	0	4.9
8	0	35						---	88	23	0	4.3
9	0	35						---	89	22	0	2.8
10	0	34						---	83	21	0	1.0
11	0	33						---	76	20	0	.23
12	0	32						---	69	17	0	0
13	0	31						---	68	14	0	0
14	0	30						---	94	12	0	0
15	0	29						---	87	10	0	0
16	0	29						---	81	8.9	0	0
17	0	35						---	72	7.8	0	0
18	0	---						---	62	8.7	0	0
19	0	---						---	57	8.4	0	0
20	0	---						---	53	8.7	0	0
21	0	---						---	49	8.7	.92	0
22	0	---						---	48	9.0	4.8	0
23	0	---						---	170	44	8.9	4.6
24	0	---						---	141	43	9.9	3.6
25	---	---						---	132	42	10	2.0
26	---	---						---	119	41	8.7	.80
27	120	---						---	115	39	7.4	.40
28	78	---						---	140	37	5.8	.15
29	75	---						---	141	36	4.5	0
30	171	---						---	137	35	3.9	0
31	154	---						---	137	3.3	3.8	---
TOTAL	---	---						---	2192.0	474.6	29.10	72.13
MEAN	---	---						---	73.1	15.3	.94	2.40
MAX	---	---						---	142	34	4.8	13
MIN	---	---						---	35	3.3	0	0
AC-FT	---	---						---	4350	941	58	143

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY,
WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, DIS- SUS- PENDE (MG/L)	SEDIMENT, DIS- SUS- PENDE (T/DAY)	TUR- BID- ITY (NTU)
FEB						
28...	1145	5030	--	682	9270	200
MAR						
01...	1100	7130	--	1000	19200	220
03...	1500	6430	--	748	13000	180
21...	1342	954	--	118	304	90
21...	1352	949	--	140	359	95
29...	1206	2750	--	341	2530	130
APR						
15...	1510	616	--	36	60	28
19...	1135	473	--	128	163	50
21...	1240	449	15.5	57	69	30
26...	1045	1410	--	248	943	170
28...	1710	1310	--	--	--	220
MAY						
02...	1130	1120	--	183	554	95
06...	1030	722	--	111	216	70
11...	1030	179	--	40	19	18
21...	0920	441	--	17	20	10
24...	0925	120	--	14	4.5	9.0
26...	1400	103	--	10	2.8	4.0
28...	1150	242	--	17	11	10
31...	1140	122	--	6	2.0	2.0
JUN						
02...	1220	108	--	4	1.2	7.0
06...	0935	91	--	4	.99	1.0
09...	1010	94	--	6	1.5	3.0
13...	1620	117	--	11	3.5	4.0
16...	1335	88	--	9	2.1	3.0
21...	0940	57	--	6	.92	3.0
22...	1300	44	--	6	.71	1.0
27...	1140	38	--	5	.52	3.0
27...	1205	38	--	6	.62	2.0
29...	1310	37	--	5	.50	2.0
JUL						
11...	1035	24	--	5	.32	1.0
14...	0940	20	--	5	.27	1.0
18...	1400	17	--	2	.09	1.0
29...	1355	13	--	2	.07	1.0
AUG						
23...	1200	12	--	5	.17	1.0
23...	1210	12	--	5	.17	2.0
SEP						
23...	1030	5.6	--	7	.11	1.0
24...	1000	6.3	--	2	.03	1.0
25...	1005	6.7	--	3	.05	1.0
26...	1000	6.7	--	2	.04	1.0
26...	1020	6.7	--	2	.04	1.0
27...	1020	6.7	--	1	.02	1.0
29...	0900	6.3	--	1	.02	1.0
30...	0920	5.3	--	1	.01	1.0

RUSSIAN RIVER BASIN

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, and 1.7 mi south of Healdsburg.

DRAINAGE AREA.--217 m².

PERIOD OF RECORD.--November 1980 to current year (low flow only).

GAGE.--Water-stage recorder. Altitude of gage is 50 ft from topographic map.

REMARKS.--Records poor. No records computed above 200 ft³/s.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	90						---	142	34	3.3	8.7
2	0	65						---	132	33	2.8	12
3	0	55						---	121	32	1.5	13
4	0	47						---	112	32	.39	11
5	0	41						---	105	30	.04	8.2
6	0	38						---	97	26	0	6.0
7	0	36						---	90	26	0	4.9
8	0	35						---	88	23	0	4.3
9	0	35						---	89	22	0	2.8
10	0	34						---	83	21	0	1.0
11	0	33						---	76	20	0	.23
12	0	32						---	69	17	0	0
13	0	31						---	68	14	0	0
14	0	30						---	94	12	0	0
15	0	29						---	87	10	0	0
16	0	29						---	81	8.9	0	0
17	0	35						---	72	7.8	0	0
18	0	---						---	62	8.7	0	0
19	0	---						---	57	8.4	0	0
20	0	---						---	53	8.7	0	0
21	0	---						---	49	8.7	.92	0
22	0	---						---	48	9.0	4.8	0
23	0	---						---	170	44	8.9	4.6
24	0	---						---	141	43	9.9	3.6
25	---	---						---	132	42	10	2.0
26	---	---						---	119	41	8.7	.80
27	120	---						---	115	39	7.4	.40
28	78	---						---	140	37	5.8	.15
29	75	---						---	141	36	4.5	0
30	171	---						---	137	35	3.9	0
31	154	---						---	137	3.3	3.8	---
TOTAL	---	---						---	2192.0	474.6	29.10	72.13
MEAN	---	---						---	73.1	15.3	.94	2.40
MAX	---	---						---	142	34	4.8	13
MIN	---	---						---	35	3.3	0	0
AC-FT	---	---						---	4350	941	58	143

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. October 1949 to September 1964 available in files of district office.

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.--The laguna is a natural water channel and overflow basin connecting Santa Rosa Creek, Mark West Creek, and other smaller creeks with Russian River. During floods directions of flow may be either to or from Russian River and the laguna acts as a natural regulator of floods on lower Russian River. Figures given herein represent elevations above 55.0 ft. No gage height record March 15 to April 7.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 73.3 ft Dec. 23, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 67.10 ft Jan. 27.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1962 TO SEPTEMBER 1963
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	56.70	---	---	63.90						
2		---	55.20	---	---	64.90						
3		---	---	---	---	62.30						
4		---	---	---	---	58.60						
5		---	---	---	---	57.10						
6		---	---	---	56.30	56.50						
7		---	---	---	58.40	57.70						
8		---	---	---	58.70	56.20						
9		---	---	---	56.70	55.10						
10		---	---	---	55.30	---						
11		---	---	---	55.10	---						
12		---	---	---	57.20	58.20						
13		---	---	---	56.40	61.90						
14		---	---	---	55.10	58.40						
15		---	---	---	---	55.70						
16		---	---	---	---	---						
17		---	---	---	---	---						
18		55.80	---	---	55.90	---						
19		55.30	---	---	---	---						
20		---	---	---	---	---						
21		---	57.30	---	---	---						
22		---	59.50	56.00	---	---						
23		---	57.70	57.70	---	---						
24		---	55.60	60.50	---	---						
25		---	---	57.50	60.10	---						
26		---	---	63.30	58.20	---						
27		---	---	66.00	58.90	---						
28		56.10	---	60.40	61.60	---						
29		58.80	---	59.10	---	---						
30		59.20	---	56.90	---	---						
31		---	---	55.30	---	---						
MEAN		---	---	---	---	---						
MAX		---	---	---	---	---						
MIN		---	---	---	---	---						

RUSSIAN RIVER BASIN

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 mi².

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. Datum of gage is 20.14 ft 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 water-stage recorder 2.1 mi downstream used during periods of low flow 1948-54.

REMARKS.--Records good. 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 beginning in May 1959. Discharge measurements were furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE.--44 years, 2,389 ft³/s, 1,731,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93,400 ft³/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 ft³/s May 6, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 23,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	2100	23,900	22.98	Mar. 1	1600	62,500	38.47
Dec. 23	0300	41,700	30.54	Mar. 13	1715	52,300	34.69
Jan. 27	1200	*71,900	41.63	Mar. 25	0215	30,100	25.81

Minimum daily, 118 ft³/s Oct. 13-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	698	17800	2410	10300	58700	11500	9680	831	349	183	281
2	148	533	9750	2150	9120	57600	9850	7530	828	363	175	290
3	144	451	7410	1940	8820	56800	8260	6100	859	360	189	276
4	136	433	5460	1910	7520	40200	6790	5070	798	353	177	241
5	133	525	4160	2040	6380	27100	5830	4760	839	307	174	218
6	130	547	3540	2050	10200	21100	5190	5220	679	311	177	251
7	131	472	3100	1900	21600	24800	4740	4270	598	282	185	232
8	132	456	2560	1550	31200	17800	4340	3780	532	275	181	229
9	131	459	2130	1430	24300	14300	4040	3460	501	278	172	213
10	127	451	1840	1330	16000	13200	3790	3200	493	276	167	219
11	121	413	1490	1380	12100	10200	3550	2850	595	272	167	206
12	119	389	1290	1530	18900	11800	3280	2590	1030	262	168	294
13	118	381	1200	1520	19700	45300	3130	2410	641	248	170	277
14	118	364	1290	1410	16400	36600	2940	2530	551	224	173	193
15	118	346	1450	1150	14300	21200	2780	2370	502	218	171	188
16	119	335	2690	1060	10900	14900	2610	2020	465	217	166	186
17	121	364	14500	1020	8970	17800	2440	1800	415	212	161	185
18	121	5390	7050	3820	13700	20000	2310	1680	408	200	165	184
19	122	7820	4390	9730	15100	12500	2310	1600	400	202	178	184
20	123	3980	4920	5970	10200	9470	2610	1530	387	205	245	184
21	128	2520	19800	4200	7720	10100	2550	1600	342	199	242	184
22	139	2350	37300	7480	7170	13200	2240	1490	281	199	237	189
23	167	5290	36500	11200	8060	16700	6360	1290	381	204	233	193
24	206	3640	18300	43800	8280	26300	10500	1200	377	207	217	197
25	367	2280	12200	30800	14200	26400	10900	1130	384	214	208	198
26	772	1590	9660	35500	23000	16200	8340	1020	388	205	220	200
27	672	1380	7760	68500	23300	22700	8000	946	388	196	216	205
28	473	3640	5540	48100	35600	18500	14200	920	387	194	207	207
29	414	18700	4350	30000	---	14200	12700	934	387	188	209	206
30	783	21900	3520	22900	---	12100	10600	904	322	184	215	214
31	1070	---	2860	14700	---	14300	---	863	---	184	234	---
TOTAL	7758	88097	255810	364480	413040	722070	178680	86747	15989	7588	5982	6524
MEAN	250	2937	8252	11760	14750	23290	5956	2798	533	245	193	217
MAX	1070	21900	37300	68500	35600	58700	14200	9680	1030	363	245	294
MIN	118	335	1200	1020	6380	9470	2240	863	281	184	161	184
AC-FT	15390	174700	507400	722900	819300	1432900	354400	172100	31710	15050	11870	12940

CAL YR 1982	TOTAL	1452854	MEAN	3980	MAX	53900	MIN	118	AC-FT	2882000
WTR YR 1983	TOTAL	2152765	MEAN	5898	MAX	68500	MIN	118	AC-FT	4270000

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

CHEMICAL ANALYSIS: Water years 1951 to current year. Published as "at Guerneville" in 1961-65.

BIOLOGICAL DATA: Water years 1975-81.

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.

INSTRUMENTATION.--Specific conductance recorder October 1973 to September 1981, at site 0.7 mi downstream.

Temperature recorder from January 1964 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS (water years 1970-83): Maximum daily mean, 2,350 mg/L Jan. 16, 1974; minimum daily mean, 1 mg/L Oct. 21, 1982.

SEDIMENT DISCHARGE (water years 1970-83): Maximum daily, 356,000 tons Dec. 20, 1981; minimum daily, 0.03 ton May 6, 1977.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,700 mg/L Mar. 1; minimum daily mean, 1 mg/L Oct. 21.

SEDIMENT DISCHARGE: Maximum daily, 273,000 tons Mar. 1; minimum daily, 0.35 ton Oct. 21.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (MTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UH-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 16...	1030	341	268	7.2	11.0	760	2.2	10.4	95	K31	32
JAN 11...	1615	1470	265	7.6	10.0	765	14	10.9	96	K67	240
MAR 08...	1340	18500	--	7.6	13.0	765	140	9.2	87	>2000	1200
MAY 17...	1250	1760	247	7.7	18.0	765	12	8.6	91	44	62
JUL 21...	1030	191	263	8.1	21.0	765	3.5	7.9	88	72	56
SEP 06...	1315	219	262	8.0	23.0	760	4.9	7.2	84	K23	86

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	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- LILITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 16...	120	0	25	14	11	16	.4	1.4	--	16	8.8
JAN 11...	120	16	25	14	10	15	.4	1.4	104	19	8.0
MAR 08...	65	3	13	7.9	5.8	16	.3	1.4	62	8.9	3.7
MAY 17...	120	3	24	14	9.3	15	.4	1.2	--	13	5.7
JUL 21...	130	2	26	15	9.5	14	.4	1.3	125	13	5.2
SEP 06...	120	0	24	14	9.4	15	.4	1.4	121	13	5.8

See footnotes at end of table.

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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)	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 16...	<.10	11	155	160	.21	<.10	.17	1.1	.11	.11	.11
JAN 11...	<.10	19	175	160	.24	.80	.17	.80	.10	.10	.13
MAR 08...	<.10	17	102	95	.14	.25	.10	.80	.43	.11	.08
MAY 17...	<.10	18	149	150	.20	.29	.07	.20	.10	.05	.05
JUL 21...	.10	14	154	160	.21	<.10	.07	.30	.05	.04	<.01
SEP 06...	<.10	13	148	150	.20	<.10	.10	.30	.05	.02	.03

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 16...	1030	70	2	88	<.5	<1	<1	<3	3	110	1
JAN 11...	1615	--	1	79	<.5	<1	<1	<3	2	--	<1
MAY 17...	1250	20	<1	68	.8	<1	<1	<3	3	34	<1
SEP 06...	1315	10	1	85	<.5	<1	<1	<3	2	8	2

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 16...	13	23	<.1	<10	3	<1	<1	250	<6	21
JAN 11...	12	35	<.1	<10	5	<1	<1	230	<6	18
MAY 17...	6	26	<.1	<10	1	2	<1	230	<6	10
SEP 06...	9	8	.1	<10	4	<1	<1	230	<6	5

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

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

< 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 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.0	---	---	11.0	---	12.0	---	13.0	19.0	---	---	22.0
2	---	12.5	9.5	10.5	---	---	---	---	18.0	---	---	22.0
3	21.0	13.0	10.5	9.0	11.0	---	---	---	17.0	---	---	22.0
4	---	12.5	13.0	10.0	---	12.0	11.5	14.0	---	---	---	22.0
5	19.0	13.0	---	9.5	---	13.5	13.0	---	---	---	---	23.0
6	---	13.0	13.0	9.0	---	---	---	12.0	---	---	---	23.0
7	16.5	12.5	---	9.5	---	---	12.0	13.5	---	---	---	22.5
8	---	12.0	9.5	10.5	11.0	13.0	12.5	14.0	---	---	---	22.0
9	17.0	11.0	9.0	10.0	---	---	13.0	14.5	---	---	---	22.0
10	---	10.0	---	9.0	---	---	12.5	14.5	---	---	---	20.0
11	16.5	11.0	9.0	10.0	10.5	---	12.5	14.0	---	22.5	---	19.0
12	---	11.0	9.5	9.5	---	---	---	16.0	---	---	---	21.0
13	18.0	11.0	9.0	8.5	---	---	---	17.5	24.0	---	---	21.0
14	---	11.0	9.0	9.0	11.0	---	---	19.0	---	24.5	---	21.0
15	19.0	10.0	---	9.0	11.0	13.0	12.0	18.0	---	---	---	21.0
16	---	11.0	---	9.0	---	11.0	---	17.0	24.0	---	---	22.0
17	18.0	11.0	11.5	10.0	---	11.0	13.0	18.0	---	---	---	22.0
18	18.0	12.0	---	10.0	11.5	---	13.0	17.0	---	---	---	19.5
19	18.0	---	10.5	---	---	---	13.5	17.5	---	---	---	19.5
20	18.0	11.0	10.0	---	12.0	12.0	13.5	16.0	20.5	---	---	20.0
21	18.0	10.5	---	---	---	10.5	13.5	14.5	23.5	21.0	---	21.0
22	18.0	11.0	11.0	---	12.0	11.0	13.5	14.5	---	---	---	21.0
23	18.0	11.0	10.5	---	11.0	---	13.0	17.0	---	---	---	20.0
24	18.0	10.5	---	---	11.0	---	---	18.0	---	---	24.5	20.0
25	18.5	---	---	---	11.0	12.0	12.5	17.0	---	---	---	19.0
26	14.0	---	---	---	11.0	---	13.5	19.0	---	---	---	19.0
27	---	---	---	11.5	---	---	12.0	18.0	23.0	---	---	20.0
28	---	---	---	---	11.0	---	---	18.0	---	---	---	20.0
29	15.0	---	---	---	---	12.5	14.0	17.0	24.0	26.0	---	19.0
30	---	11.0	---	---	---	---	---	18.5	---	---	---	19.0
31	---	---	---	---	---	---	---	19.0	---	---	---	---
MONTH	---	---	---	---	---	---	---	16.5	---	---	---	21.0

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	155	2	.84	698	28	53	17800	397	20200
2	148	2	.80	533	16	23	9750	215	5660
3	144	3	1.2	451	12	15	7410	140	2800
4	136	2	.73	433	10	12	5460	98	1440
5	133	2	.72	525	8	11	4160	78	876
6	130	2	.70	547	10	15	3540	69	660
7	131	3	1.1	472	12	15	3100	60	502
8	132	2	.71	456	8	9.8	2560	45	311
9	131	2	.71	459	6	7.4	2130	35	201
10	127	2	.69	451	6	7.3	1840	23	114
11	121	3	.98	413	5	5.6	1490	15	60
12	119	5	1.6	389	6	6.3	1290	14	49
13	118	7	2.2	381	3	3.1	1200	14	45
14	118	6	1.9	364	7	6.9	1290	51	178
15	118	4	1.3	346	3	2.8	1450	138	540
16	119	4	1.3	335	7	6.3	2690	276	2100
17	121	3	.98	364	29	32	14500	552	22200
18	121	2	.65	5390	465	8170	7050	320	6090
19	122	2	.66	7820	360	7600	4390	119	1410
20	123	2	.66	3980	178	1910	4920	75	996
21	128	1	.35	2520	96	653	19800	332	21200
22	139	3	1.1	2350	99	628	37300	902	91600
23	167	3	1.4	5290	221	3210	36500	885	89300
24	206	39	21	3640	90	885	18300	551	27200
25	367	62	66	2280	53	326	12200	381	12600
26	772	137	323	1590	36	155	9660	269	7020
27	672	102	185	1380	35	130	7760	171	3580
28	473	62	79	3640	125	1620	5540	98	1470
29	414	32	36	18700	420	21600	4350	64	752
30	783	46	101	21900	606	36500	3520	48	456
31	1070	54	161	---	---	---	2860	39	301
TOTAL	7758	---	995.28	88097	---	83618.5	255810	---	321911

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2410	33	215	10300	237	6590	58700	1700	273000
2	2150	28	163	9120	204	5020	57600	1190	186000
3	1940	26	136	8820	189	4500	56800	1020	156000
4	1910	28	144	7520	172	3490	40200	500	54300
5	2040	30	165	6380	163	2810	27100	396	29000
6	2050	28	155	10200	249	7200	21100	354	20200
7	1900	26	133	21600	474	28300	24800	335	22400
8	1550	26	109	31200	703	59400	17800	325	15600
9	1430	20	77	24300	517	33900	14300	319	12300
10	1330	20	72	16000	383	16500	13200	305	10900
11	1380	26	97	12100	303	9900	10200	294	8100
12	1530	23	95	18900	367	19000	11800	340	10800
13	1520	20	82	19700	328	17500	45300	938	120000
14	1410	15	57	16400	305	13500	36600	755	74600
15	1150	16	50	14300	330	12700	21200	496	28400
16	1060	17	49	10900	248	7300	14900	319	12800
17	1020	22	61	8970	227	5500	17800	283	13600
18	3820	127	2420	13700	373	14900	20000	392	21200
19	9730	413	11100	15100	348	14200	12500	335	11300
20	5970	205	3300	10200	199	5480	9470	315	8050
21	4200	119	1350	7720	153	3190	10100	312	8510
22	7480	220	5680	7170	131	2540	13200	299	10700
23	11200	313	9870	8060	148	3220	16700	305	13800
24	43800	1020	126000	8280	152	3400	26300	511	36600
25	30800	535	44500	14200	366	18500	26400	716	51500
26	35500	756	74100	23000	451	28000	16200	605	26500
27	68500	1460	272000	23300	425	26900	22700	516	31600
28	48100	1050	136000	35600	769	75800	18500	432	21600
29	30000	675	54700	---	---	---	14200	370	14200
30	22900	444	27500	---	---	---	12100	327	10700
31	14700	318	12600	---	---	---	14300	309	11900
TOTAL	364480	---	782980	413040	---	449240	722070	---	1326160
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	11500	248	7700	9680	140	3660	831	21	47
2	9850	215	5720	7530	126	2560	828	21	47
3	8260	186	4150	6100	113	1860	859	21	49
4	6790	159	2910	5070	103	1410	798	20	43
5	5830	135	2130	4760	108	1390	839	20	45
6	5190	115	1610	5220	143	2020	679	19	35
7	4740	100	1280	4270	96	1110	598	19	31
8	4340	92	1080	3780	44	449	532	18	26
9	4040	70	764	3460	41	383	501	18	24
10	3790	75	767	3200	47	406	493	18	24
11	3550	72	690	2850	44	339	595	17	27
12	3280	70	620	2590	43	301	1030	17	47
13	3130	66	558	2410	41	267	641	17	29
14	2940	61	484	2530	37	253	551	16	24
15	2780	59	443	2370	24	154	502	15	20
16	2610	48	338	2020	23	125	465	14	18
17	2440	36	237	1800	22	107	415	14	16
18	2310	34	212	1680	18	82	408	13	14
19	2310	32	200	1600	17	73	400	12	13
20	2610	36	254	1530	16	66	387	11	11
21	2550	33	227	1600	17	73	342	39	36
22	2240	33	200	1490	15	60	281	35	27
23	6360	338	7640	1290	16	56	381	30	31
24	10500	439	12400	1200	16	52	377	26	26
25	10900	288	8480	1130	15	46	384	22	23
26	8340	176	3960	1020	16	44	388	18	19
27	8000	171	3690	946	16	41	388	14	15
28	14200	253	9700	920	15	37	387	16	17
29	12700	252	8640	934	16	40	387	17	18
30	10600	182	5210	904	16	39	322	18	16
31	---	---	---	863	18	42	---	---	---
TOTAL	178680	---	92294	86747	---	17545	15989	---	818

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	349	19	18	183	19	9.4	281	22	17
2	363	21	21	175	19	9.0	290	10	7.8
3	360	23	22	189	19	9.7	276	7	5.2
4	353	26	25	177	19	9.1	241	9	5.9
5	307	28	23	174	20	9.4	218	8	4.7
6	311	30	25	177	20	9.6	251	13	8.8
7	282	33	25	185	20	10	232	12	7.5
8	275	35	26	181	20	9.8	229	10	6.2
9	278	37	28	172	20	9.3	213	8	4.6
10	276	38	28	167	20	9.0	219	8	4.7
11	272	39	29	167	20	9.0	206	9	5.0
12	262	36	25	168	20	9.1	294	8	6.4
13	248	34	23	170	20	9.2	277	9	6.7
14	224	31	19	173	20	9.3	193	10	5.2
15	218	28	16	171	20	9.2	188	10	5.1
16	217	25	15	166	21	9.4	186	9	4.5
17	212	22	13	161	21	9.1	185	9	4.5
18	200	19	10	165	21	9.4	184	4	2.0
19	202	16	8.7	178	21	10	184	5	2.5
20	205	13	7.2	245	21	14	184	7	3.5
21	199	10	5.4	242	21	14	184	7	3.5
22	199	11	5.9	237	21	13	189	7	3.6
23	204	12	6.6	233	21	13	193	13	6.8
24	207	13	7.3	217	21	12	197	11	5.9
25	214	14	8.1	208	21	12	198	12	6.4
26	205	16	8.9	220	22	13	200	7	3.8
27	196	17	9.0	216	22	13	205	7	3.9
28	194	18	9.4	207	22	12	207	10	5.6
29	188	19	9.6	209	22	12	206	7	3.9
30	184	19	9.4	215	22	13	214	11	6.4
31	184	19	9.4	234	22	14	---	---	---
TOTAL	7588	---	495.9	5982	---	333.0	6524	---	167.6
YEAR	2152765		3076558						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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.	SED.	SED.	SED.
						SUSP. FALL DIAM. % FINER THAN .002 MM	SUSP. FALL DIAM. % FINER THAN .004 MM	SUSP. FALL DIAM. % FINER THAN .008 MM	SUSP. FALL DIAM. % FINER THAN .016 MM
OCT 26...	1600	1090	14.0	206	606	--	--	--	--
JAN 23...	1000	9970	--	274	7380	--	--	--	--
JAN 27...	1010	70900	11.5	1830	350000	--	60	74	86
MAR 08...	1405	16900	13.0	324	14800	30	37	44	52
APR 08...	1210	4310	13.0	92	1070	--	--	--	--
MAY 17...	1440	1740	18.0	22	103	--	--	--	--
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
OCT 26...	--	--	99	--	100	--	--	--	--
JAN 23...	--	--	83	--	94	--	100	--	--
JAN 27...	94	--	98	--	99	--	100	--	--
MAR 08...	62	74	--	92	--	99	--	100	--
APR 08...	--	--	78	--	92	--	99	--	100
MAY 17...	--	--	83	--	96	--	100	--	--

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY,
WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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)	TUR- BID- ITY (NTU)
OCT						
01...	1400	152	--	2	.82	1.0
03...	1800	141	--	3	1.1	2.0
05...	1430	132	--	2	.71	2.0
07...	1100	132	--	3	1.1	2.0
09...	1530	132	--	2	.71	1.0
11...	0900	121	--	3	.98	1.0
13...	1130	118	--	7	2.2	1.0
15...	1100	118	--	4	1.3	1.0
17...	1000	121	--	3	.98	1.0
18...	1700	121	--	2	.65	1.0
19...	1240	122	--	2	.66	1.0
20...	1600	124	--	2	.67	1.0
21...	1230	129	--	2	.70	1.0
22...	1700	141	--	3	1.1	2.0
23...	1400	166	--	3	1.3	2.0
24...	1000	200	--	44	24	9.0
25...	0735	204	--	79	44	9.0
25...	1545	297	--	64	51	8.0
26...	1600	1090	14.0	206	606	160
30...	1730	907	--	111	272	65
31...	0800	1200	--	112	363	65
NOV						
01...	1700	645	--	19	33	8.0
02...	0800	552	--	18	27	8.0
02...	1600	512	--	15	21	7.0
03...	1030	451	--	11	13	8.0
03...	1900	435	--	12	14	8.0
04...	0800	425	--	14	16	6.0
04...	1500	430	--	10	12	7.0
05...	0800	521	--	21	30	9.0
05...	1645	536	--	8	12	4.0
06...	0830	555	--	8	12	4.0
06...	1700	552	--	9	13	4.0
07...	0900	473	--	14	18	4.0
07...	1700	462	--	10	12	4.0
08...	0815	454	--	9	11	5.0
08...	1730	459	--	7	8.7	3.0
09...	0745	459	--	6	7.4	3.0
09...	1700	459	--	6	7.4	3.0
10...	0800	454	--	6	7.4	3.0
10...	1700	451	--	6	7.3	3.0
11...	0900	417	--	6	6.8	3.0
11...	1700	404	--	4	4.4	2.0
12...	0930	393	--	3	3.2	2.0
12...	1600	387	--	8	8.4	3.0
13...	0900	382	--	2	2.1	2.0
13...	1700	379	--	4	4.1	2.0
14...	1000	364	--	7	6.9	3.0
15...	1000	348	--	3	2.8	2.0
16...	0730	338	--	3	2.7	1.0
16...	1030	341	11.0	--	--	2.2
16...	1200	336	--	7	6.4	2.0
16...	1800	333	--	4	3.6	2.0
17...	0715	341	--	3	2.8	2.0
18...	0800	2520	--	486	3310	170
18...	2200	10200	--	562	15500	280
21...	1730	2280	--	88	542	45
22...	0700	1970	--	88	468	40
24...	0630	4130	--	98	1090	50
24...	1500	3290	--	72	640	38
30...	0645	20800	--	410	23000	140
DEC						
02...	0630	10600	--	230	6580	85
03...	0630	7830	--	157	3320	70
03...	1200	7400	--	134	2680	55
04...	2000	6970	--	96	1810	40
06...	2000	3370	--	67	610	29
08...	0650	2710	--	47	344	26
09...	0700	2190	--	37	219	20
11...	0830	1520	--	15	62	7.0
12...	1200	1280	--	14	48	8.0
13...	0700	1200	--	14	45	7.0
17...	0700	15800	--	653	27900	230
19...	1700	4110	--	80	888	32
20...	0920	3580	--	51	493	28
22...	1810	38600	--	1080	113000	500
23...	1220	39000	--	856	90100	250
JAN						
01...	1830	2320	--	32	200	15
02...	1030	2160	--	28	163	16

RUSSIAN RIVER BASIN

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11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY,
WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	TUR- BID- ITY (NTU)
JAN						
02...	1830	2080	--	29	163	15
03...	0800	1970	--	26	138	15
04...	0815	1890	--	28	143	15
05...	0810	2020	--	29	158	17
05...	1740	2080	--	31	174	19
06...	0815	2070	--	28	156	28
07...	0815	2000	--	26	140	18
08...	1745	1500	--	26	105	14
09...	1040	1430	--	20	77	12
09...	1845	1400	--	20	76	13
10...	0815	1340	--	20	72	12
11...	0815	1280	--	23	79	14
11...	1540	1460	--	26	102	15
11...	1615	1470	10.0	--	--	14
12...	0810	1530	--	20	83	16
12...	1800	1540	--	25	104	17
13...	0805	1530	--	20	83	14
14...	0915	1460	--	15	59	10
15...	1045	1150	--	16	50	9.0
15...	1730	1110	--	12	36	10
16...	1000	1060	--	16	46	17
16...	1630	1050	--	17	48	9.0
17...	0800	1020	--	21	58	10
17...	1830	1010	--	17	46	13
18...	0800	1110	--	29	87	14
19...	0815	10800	--	459	13400	180
20...	2030	5020	--	169	2290	110
22...	1730	10800	--	285	8310	100
23...	1000	9970	--	274	7380	110
24...	0845	47700	--	1420	183000	450
24...	1235	48600	--	1480	194000	500
25...	1800	25100	--	474	32100	160
27...	1010	70900	11.5	1830	350000	700
31...	0825	15500	--	331	13900	120
FEB						
02...	0830	8970	--	205	4960	85
02...	2000	9360	--	200	5050	95
03...	1815	8540	--	182	4200	80
08...	0830	33300	--	791	71100	290
14...	0815	16800	--	292	13200	110
15...	0820	15200	--	335	13700	110
18...	0820	11100	--	310	9290	100
20...	1830	9250	--	174	4350	65
22...	1900	7380	--	132	2630	45
23...	2030	8400	--	159	3610	60
24...	0815	8880	--	165	3960	55
25...	0810	7640	--	171	3530	38
25...	1815	23400	--	674	42600	190
26...	0900	25300	--	552	37700	180
26...	1930	19500	--	605	31900	190
MAR						
01...	0830	59000	--	1860	296000	600
04...	0820	43000	--	510	59200	200
05...	1645	26000	--	385	27000	140
08...	1340	18500	13.0	--	--	140
08...	1405	16900	13.0	324	14800	110
15...	0810	22800	--	529	32600	240
16...	0815	14800	--	342	13700	130
17...	0820	16400	--	241	10700	100
19...	1930	11000	--	334	9920	110
20...	1500	8950	--	299	7230	100
20...	2100	9350	--	342	8630	110
21...	0800	10800	--	318	9270	100
21...	1900	9580	--	301	7790	85
22...	0810	10900	--	280	8240	85
25...	1800	23700	--	671	42900	260
29...	1950	13400	--	357	12900	200
APR						
04...	0800	6940	--	163	3050	55
05...	1800	5620	--	120	1820	45
07...	0815	4790	--	104	1350	45
09...	0930	4070	--	70	769	33
10...	0830	3800	--	73	749	35
11...	0815	3590	--	73	708	29
11...	2100	3430	--	74	685	23
15...	0815	2800	--	59	446	20
17...	0800	2460	--	38	252	11
17...	1800	2410	--	33	215	11
18...	0815	2340	--	34	215	11
19...	0815	2230	--	32	193	10

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY,
WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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)	TUR- BID- ITY (NTU)
APR						
19...	2130	2470	--	33	220	10
20...	0815	2550	--	36	248	10
21...	0815	2600	--	33	232	10
22...	0815	2260	--	33	201	11
23...	1700	9140	--	479	11800	160
25...	1800	11000	--	234	6950	100
26...	1800	7770	--	163	3420	75
27...	0815	6890	--	162	3010	75
MAY						
01...	1100	9780	--	144	3800	50
04...	1030	5080	--	101	1390	40
06...	1030	5390	--	151	2200	65
07...	1100	4290	--	44	510	21
08...	1300	3780	--	44	449	20
09...	0900	3500	--	41	387	18
10...	1010	3200	--	47	406	17
11...	0800	2870	--	44	341	19
12...	1310	2560	--	43	297	15
13...	1550	2390	--	41	265	15
14...	1245	2560	--	37	256	15
15...	2000	2300	--	24	149	10
16...	1020	2020	--	25	136	10
17...	1250	1760	18.0	--	--	12
17...	1440	1730	18.0	22	103	11
18...	1040	1680	--	18	82	18
19...	1230	1600	--	17	73	5.0
20...	0915	1530	--	16	66	4.0
21...	0630	1620	--	17	74	5.0
22...	0630	1520	--	15	62	6.0
23...	0930	1300	--	16	56	5.0
24...	1200	1190	--	16	51	5.0
25...	1015	1150	--	15	47	5.0
26...	1545	1010	--	16	44	6.0
27...	0830	960	--	16	41	5.0
28...	1930	969	--	15	39	4.0
30...	2100	894	--	16	39	5.0
31...	1315	864	--	18	42	4.0
JUN						
01...	1900	827	--	21	47	6.0
13...	1750	594	--	17	27	7.0
20...	1330	387	--	11	11	5.0
21...	1135	382	--	39	40	6.0
27...	1135	390	--	14	15	4.0
29...	1155	385	--	17	18	3.0
JUL						
11...	0925	266	--	39	28	7.0
21...	1000	192	--	10	5.2	4.0
21...	1030	191	21.0	--	--	3.5
29...	1240	179	--	19	9.2	4.0
SEP						
01...	1320	284	--	22	17	4.0
02...	0800	292	--	10	7.9	3.0
03...	0830	274	--	7	5.2	2.0
04...	0810	256	--	9	6.2	3.0
05...	1440	196	--	8	4.2	4.0
06...	0810	220	--	11	6.5	4.0
06...	1130	218	--	13	7.7	3.0
06...	1315	219	23.0	--	--	4.9
07...	0750	224	--	10	6.0	2.0
08...	0750	218	--	8	4.7	3.0
09...	0800	182	--	8	3.9	3.0
10...	0940	198	--	8	4.3	2.0
11...	0755	216	--	9	5.2	2.0
12...	1145	204	--	8	4.4	2.0
13...	1140	245	--	9	6.0	3.0
14...	0815	220	--	10	5.9	3.0
15...	0800	188	--	10	5.1	4.0
16...	1230	186	--	9	4.5	4.0
17...	1330	185	--	9	4.5	3.0
18...	0815	184	--	4	2.0	2.0
19...	0830	184	--	5	2.5	2.0
20...	0830	184	--	7	3.5	2.0
21...	1700	184	--	7	3.5	2.0
22...	1130	180	--	7	3.4	2.0
23...	0815	186	--	13	6.5	3.0
24...	0900	190	--	11	5.6	2.0
25...	0900	190	--	12	6.2	2.0
26...	0940	192	--	7	3.6	2.0
27...	0945	198	--	7	3.7	3.0
28...	1100	200	--	10	5.4	2.0
29...	0800	198	--	7	3.7	3.0
30...	0845	204	--	11	6.1	3.0

11467600 GARCIA RIVER NEAR POINT ARENA, CA

LOCATION.--Lat 38°55'35", long 123°37'45", in SW 1/4 SW 1/4 sec. 3, T.12 N., R.16 W., Mendocino County, Hydrologic Unit 18010108, on left bank 0.9 mi downstream from North Fork, and 3.5 mi northeast of town of Point Arena.

DRAINAGE AREA.--98.5 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1951-56, and annual maximum water years 1952-56, August 1962 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 55.31 ft National Geodetic Vertical Datum of 1929. July 17, 1951, to Jan. 31, 1956, crest-stage only, at site 15 ft upstream at different datum.

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

AVERAGE DISCHARGE.--21 years, 341 ft³/s, 247,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,300 ft³/s Jan. 16, 1974, gage height, 17.41 ft, from rating curve extended above 9,600 ft³/s on basis of slope-area measurements at gage heights 15.11 ft and 16.63 ft; minimum daily, 2.3 ft³/s Sept. 16, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	0815	5,110	9.17	Jan. 26	1900	*23,500	15.67
Nov. 28	1900	8,180	10.67	Feb. 28	2200	9,260	11.10
Dec. 16	2315	15,000	13.17	Mar. 13	0500	14,200	12.89
Dec. 21	1500	18,700	14.30	Mar. 27	0515	7,070	10.16
Jan. 24	0030	5,060	9.13				

Minimum daily discharge, 13 ft³/s on several days during October.

REVISIONS.--Revised daily discharges, in cubic feet per second, for September 1982, are given below. These figures supersede those published in the report for 1982.

September 1, 1982....	15	September 9, 1982....	14	September 17, 1982....	14	September 25, 1982....	13
2.....	15	10.....	14	18.....	14	26.....	13
3.....	15	11.....	13	19.....	16	27.....	13
4.....	15	12.....	13	20.....	15	28.....	14
5.....	14	13.....	14	21.....	14	29.....	14
6.....	14	14.....	14	22.....	13	30.....	14
7.....	14	15.....	14	23.....	13		
8.....	14	16.....	14				

Month	Total	Mean	Max	Min	Ac/ft
September	418	13.9	16	13	829

Minimum daily discharge for water year 1982, 11 ft³/s several days during October 1981.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	71	1650	295	848	6340	1470	613	100	57	31	70
2	13	52	965	270	698	4240	1010	490	99	65	30	45
3	13	41	745	254	591	3380	752	418	95	54	30	36
4	13	36	641	236	514	2200	592	377	92	50	29	32
5	13	32	577	223	684	1580	490	403	89	49	29	29
6	13	29	523	214	1160	1280	412	379	86	47	28	26
7	14	27	472	205	2470	1990	361	329	83	46	28	24
8	14	30	430	196	3210	1470	322	299	80	45	27	23
9	14	33	398	188	2570	1200	294	278	79	44	27	22
10	14	30	370	182	1590	1070	270	251	76	43	27	21
11	13	28	344	176	1120	891	247	232	76	42	27	20
12	13	27	332	172	2070	1510	226	216	74	42	27	20
13	13	26	342	167	1930	9050	213	207	71	41	27	20
14	13	25	317	163	1400	2720	204	196	69	40	28	19
15	13	25	486	161	1270	1340	195	185	67	39	26	19
16	13	24	3490	159	1230	1100	186	176	65	39	26	19
17	13	150	6130	157	1000	1340	180	167	62	39	26	18
18	13	2290	1750	601	2860	1300	175	161	61	39	26	18
19	13	811	1160	629	1860	985	175	156	59	39	27	18
20	13	437	1670	391	1130	794	170	150	59	38	44	18
21	13	290	9770	316	839	722	164	142	59	37	36	18
22	18	355	7100	542	670	1060	162	136	58	37	30	18
23	42	564	4190	809	645	1190	1590	132	57	37	28	19
24	41	368	1590	3430	653	2300	1030	127	56	36	25	20
25	32	276	1030	1420	2050	2140	964	124	56	36	22	22
26	148	223	787	12300	1840	1320	671	119	55	36	22	21
27	58	235	598	7420	2900	4070	2570	115	54	35	21	20
28	38	2370	463	2390	5520	1740	1830	112	53	34	20	19
29	61	2410	394	1870	---	1200	981	108	52	33	20	19
30	456	2380	351	1490	---	1980	767	106	51	32	32	18
31	129	---	322	1110	---	3020	---	103	---	32	82	---
TOTAL	1300	13695	49387	38136	45322	66522	18673	7007	2093	1283	908	711
MEAN	41.9	456	1593	1230	1619	2146	622	226	69.8	41.4	29.3	23.7
MAX	456	2410	9770	12300	5520	9050	2570	613	100	65	82	70
MIN	13	24	317	157	514	722	162	103	51	32	20	18
AC-FT	2580	27160	97960	75640	89900	131900	37040	13900	4150	2540	1800	1410
CAL YR 1982	TOTAL	172733	MEAN	473	MAX	9770	MIN	13	AC-FT	342600		
WTR YR 1983	TOTAL	245037	MEAN	671	MAX	12300	MIN	13	AC-FT	486000		

NAVARRO RIVER BASIN

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 mi².

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 1445: 1954(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4.79 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1969, at site 0.2 mi upstream at datum 1.86 ft higher.

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

AVERAGE DISCHARGE.--33 years, 547 ft³/s, 396,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,500 ft³/s Dec. 22, 1955, gage height, 40.60 ft site and datum then in use, from rating curve extended above 19,000 ft³/s on basis of slope-area measurement of maximum flow; minimum daily, 0.23 ft³/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 above base of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 28	2400	8,650	15.50	Feb. 18	1145	7,330	14.54
Dec. 17	0300	12,700	19.53	Mar. 1	0130	20,500	24.33
Dec. 21	1815	25,600	26.87	Mar. 13	0745	16,900	27.34
Jan. 26	2230	*45,800	34.63	Mar. 24	2000	10,600	17.68
Feb. 8	0130	8,370	15.57	Apr. 25	Unknown	35,400	30.93

Minimum daily, 12 ft³/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	127	3420	511	1500	13900	3050	1720	156	65	31	53
2	13	92	1640	457	1140	9310	2250	1260	152	77	31	46
3	14	76	1140	418	933	6820	1670	1020	144	74	30	38
4	13	67	880	384	763	4800	1280	891	137	66	29	33
5	13	59	770	353	1320	3250	1050	957	133	59	29	30
6	13	54	642	328	2230	2360	893	999	127	57	28	28
7	15	51	533	305	5440	2920	779	805	120	54	28	28
8	16	56	452	285	6630	2250	694	724	117	54	28	28
9	16	67	389	267	4980	1880	627	653	116	52	27	27
10	15	62	333	252	3370	1600	572	587	113	51	26	26
11	14	53	282	240	2260	1280	523	526	111	50	26	25
12	13	51	257	230	4890	1550	481	480	110	47	25	24
13	13	49	304	220	4910	10900	444	444	106	44	24	22
14	13	48	253	212	3340	5030	410	408	102	43	23	22
15	13	46	260	209	2510	3190	383	369	96	42	23	21
16	13	45	1380	213	2330	2650	361	342	90	42	22	21
17	13	86	7120	213	1610	3760	341	319	86	41	21	20
18	13	2110	2290	736	5050	3950	328	296	82	41	20	20
19	13	1170	1340	1810	4130	2710	324	280	80	40	21	20
20	14	597	1540	1190	2450	2060	337	261	78	40	28	19
21	14	355	12400	880	1600	2330	322	242	74	40	33	19
22	17	414	10600	1500	1130	3350	291	227	72	40	30	19
23	32	955	8640	1730	987	3310	3390	219	71	39	29	19
24	50	526	4110	9930	1180	7380	4710	208	71	39	28	21
25	47	346	2400	4690	3700	6650	16500	202	70	39	27	22
26	248	248	1610	20700	4610	3880	2500	190	63	39	25	22
27	151	204	1200	18100	6920	5720	5360	184	64	37	24	21
28	82	1670	958	5130	10600	3770	5300	175	65	36	24	21
29	65	4250	803	4410	---	2810	3100	170	65	35	24	20
30	391	5320	681	2940	---	2770	2290	164	64	34	27	20
31	238	---	586	2060	---	4540	---	157	---	32	40	---
TOTAL	1607	19254	69213	80903	92513	132680	60560	15479	2935	1449	831	755
MEAN	51.8	642	2233	2610	3304	4280	2019	499	97.8	46.7	26.8	25.2
MAX	391	5320	12400	20700	10600	13900	16500	1720	156	77	40	53
MIN	12	45	253	209	763	1280	291	157	63	32	20	19
AC-FT	3190	38190	137300	160500	183500	263200	120100	30700	5820	2870	1650	1500
CAL YR 1982	TOTAL	319481	MEAN	875	MAX	17400	MIN	8.5	AC-FT	633700		
WTR YR 1983	TOTAL	478179	MEAN	1310	MAX	20700	MIN	12	AC-FT	948500		

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 mi².

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 National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--32 years, 222 ft³/s, 160,800 acre-ft yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,600 ft³/s Mar. 29, 1974, gage height, 27.14 ft, from rating curve extended above 4,500 ft³/s on basis of slope-conveyance study; minimum daily, 0.79 ft³/s Sept. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 30	1615	3,490	11.78	Feb. 18	1730	3,230	11.23
Dec. 17	0100	7,150	16.49	Feb. 25	2000	3,080	10.98
Dec. 21	1630	7,540	16.90	Mar. 13	0745	3,730	12.09
Jan. 26	2000	*11,000	20.04	Mar. 24	2000	4,390	13.10
Feb. 8	0030	2,980	10.77	Mar. 31	0015	2,570	10.27

Minimum discharge, 4.4 ft³/s Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	46	1770	239	775	2480	1370	573	81	45	18	38
2	5.0	29	881	214	651	2080	996	464	78	55	18	24
3	5.0	22	601	195	557	1710	741	396	74	42	17	19
4	5.0	18	504	179	488	1390	595	357	65	37	17	16
5	5.0	15	468	166	652	1120	499	387	59	36	17	22
6	5.6	14	417	153	958	914	427	399	64	34	17	14
7	6.6	13	354	143	2140	979	376	359	61	32	16	13
8	6.0	28	301	134	2720	894	338	337	59	31	16	13
9	6.3	41	261	125	2180	766	307	306	58	30	15	13
10	6.4	29	227	117	2080	691	282	277	57	29	15	12
11	6.3	22	196	111	1500	588	261	254	59	28	14	11
12	5.9	19	188	106	1680	789	242	232	56	28	14	11
13	5.7	16	225	101	1760	3030	225	217	54	27	14	11
14	5.3	15	212	95	1480	1840	204	198	52	26	13	10
15	5.3	14	340	97	1170	1140	191	182	50	25	13	9.7
16	5.3	14	2410	96	1070	907	180	169	49	25	12	9.4
17	9.6	274	3960	93	920	1210	171	159	48	25	12	9.3
18	4.5	1380	1410	276	2350	1440	165	148	46	24	12	9.1
19	4.4	706	819	597	2230	1060	162	141	44	25	12	9.1
20	4.6	384	755	496	1340	827	158	133	44	25	14	9.1
21	4.9	249	3880	401	940	789	151	124	43	24	16	8.8
22	7.1	295	3320	392	734	967	162	118	42	23	15	9.4
23	18	381	2700	430	634	1160	513	114	42	23	15	9.8
24	15	296	1550	1810	626	2880	527	110	40	23	14	10
25	16	216	959	1430	1720	2720	649	106	39	22	13	10
26	32	162	672	6290	2290	1460	581	102	38	23	12	10
27	25	147	517	5050	2390	1860	1110	97	38	21	12	9.9
28	15	659	423	2220	2610	1360	1340	92	38	21	11	9.9
29	101	2240	360	1510	---	1050	945	89	38	20	11	9.9
30	260	2650	311	1170	---	1340	719	86	37	20	20	10
31	88	---	273	952	---	2160	---	84	---	19	48	---
TOTAL	694.8	10394	31264	25388	40645	43601	14587	6810	1553	868	483	380.4
MEAN	22.4	346	1009	819	1452	1406	486	220	51.8	28.0	15.6	12.7
MAX	260	2650	3960	6290	2720	3030	1370	573	81	55	48	38
MIN	4.4	13	188	93	488	588	151	84	37	19	11	8.8
AC-FT	1380	20620	62010	50360	80620	86480	28930	13510	3080	1720	958	755

CAL YR 1982 TOTAL 126090.8 MEAN 345 MAX 5200 MIN 4.4 AC-FT 250100
WTR YR 1983 TOTAL 176668.2 MEAN 484 MAX 6290 MIN 4.4 AC-FT 350400

MATTOLE RIVER BASIN

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 mi².

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. Altitude of gage is 40 ft, 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.--Records good. Diversions for irrigation of about 350 acres above station.

AVERAGE DISCHARGE.--35 years, 1,387 ft³/s, 1,005,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,400 ft³/s Dec. 22, 1955, gage height, 29.60 ft site and datum then in use, from rating curve extended above 26,000 ft³/s on basis of slope-area measurement of maximum flow; minimum daily, 17 ft³/s Sept. 5, 15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	0730	22,500	14.99	Feb. 10	0030	23,300	15.20
Dec. 16	1500	*57,100	23.33	Feb. 18	0845	16,100	13.07
Dec. 21	1530	27,000	16.24	Mar. 13	0400	35,200	18.44
Jan. 26	1730	45,400	20.85	Mar. 30	1500	34,000	18.14

Minimum daily, 29 ft³/s Oct. 1-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	803	7720	1300	3340	10700	7540	2130	508	226	73	1330
2	29	655	4890	1180	2750	7620	5370	1940	485	411	71	698
3	29	553	3760	1060	2380	5880	4280	1800	457	262	70	470
4	29	481	4130	945	2120	4700	3320	1690	431	188	69	351
5	29	440	3590	882	2210	4600	2580	1840	407	161	66	285
6	34	404	2910	324	3180	4020	2260	1950	385	149	68	239
7	47	380	2370	777	6020	4530	2080	1830	368	140	65	208
8	51	421	2000	733	7490	4390	1930	1770	350	136	64	185
9	47	419	1780	691	10800	5050	1780	1650	330	127	62	168
10	40	377	1630	657	15700	8340	1680	1540	323	124	61	156
11	36	349	1470	630	7920	5650	1590	1430	321	118	60	147
12	35	326	1460	604	8250	10300	1490	1350	297	115	57	139
13	33	311	1710	577	8070	23300	1410	1270	280	112	56	133
14	32	304	1560	551	6190	9640	1340	1190	261	108	52	126
15	31	292	21000	552	5560	6300	1290	1120	249	104	52	120
16	31	281	47700	577	5030	5070	1230	1060	236	101	51	116
17	31	4660	24600	539	5660	5450	1180	1010	222	101	49	112
18	30	15100	8210	2290	12900	4820	1160	953	211	101	49	105
19	30	5840	5060	3140	8410	4020	1160	909	200	100	48	100
20	30	3130	5690	2130	5730	3570	1120	861	189	99	51	95
21	47	2240	15000	1770	4530	3670	1080	815	178	95	53	93
22	274	2790	11000	1810	4920	4370	1370	776	170	92	54	92
23	1220	2800	8200	1860	4750	5030	4410	740	164	92	54	97
24	460	2200	6300	5110	4350	11700	4010	709	160	90	52	99
25	321	1790	4900	3290	6820	8690	4020	674	155	90	53	97
26	625	1540	4000	27700	7260	6550	3010	645	151	87	54	92
27	494	1910	3150	17800	8440	7870	2770	614	149	84	56	88
28	319	4390	2500	7690	10100	5570	2570	583	147	81	54	84
29	2980	10000	2020	6740	---	10800	2320	558	144	80	91	80
30	3450	9450	1700	5320	---	28700	2300	539	141	79	1360	79
31	1130	---	1500	4230	---	14900	---	528	---	77	2000	---
TOTAL	12003	74636	213510	103959	180880	245800	73650	36474	8069	3930	5075	6184
MEAN	387	2488	6887	3354	6460	7929	2455	1177	269	127	164	206
MAX	3450	15100	47700	27700	15700	28700	7540	2130	508	411	2000	1330
MIN	29	281	1460	539	2120	3570	1080	528	141	77	48	79
AC-FT	23810	148000	423500	206200	358800	487500	146100	72350	16000	7800	10070	12270
CAL YR 1982	TOTAL	683690	MEAN	1873	MAX	47700	MIN	26	AC-FT	1356000		
WTR YR 1983	TOTAL	964170	MEAN	2642	MAX	47700	MIN	29	AC-FT	1912000		

11470000 LAKE PILLSBURY NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°24'30", long 122°57'30", on line between secs.14 and 23, T.18 N., R.10 W., Lake County, Hydrologic Unit 18010103, Mendocino National Forest, at Scott Dam near right bank of Eel River, 0.3 mi downstream from Rice Fork, and 10.2 mi northeast of town of Potter Valley.

DRAINAGE AREA.--289 mi².

PERIOD OF RECORD.--October 1922 to September 1928 (daily gage heights only), October 1928 to current year. Monthend contents only for some periods, published in WSP 1315-B. Prior to October 1953, published as "at Hullville".

GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 81.7 ft below National Geodetic Vertical Datum of 1929 (river-profile survey). Prior to Jan. 26, 1950, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete overflow type dam; storage began in December 1921. Usable capacity, 86,400 acre-ft between gage heights 1,822.4 ft, sill of outlet gate and 1,910.0 ft, top of spillway gates; dead storage, 397 acre-ft; spillway at gage height 1,900.0 ft. Water is released down Eel River to Van Arsdale Reservoir, from which it is diverted through tunnel, to Potter Valley powerhouse; part is then used for irrigation and remainder flows into East Fork Russian River. Records given herein represent total contents.

COOPERATION.--Records furnished by Pacific Gas and Electric Co. in connection with a Federal Energy Regulatory Commission Project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 95,600 acre-ft May 13, 16, 1925, gage height, 1,910.8 ft; maximum gage height, 1,911.84 ft Dec. 22, 1964, from floodmarks; minimum contents, 10 acre-ft Dec. 9, 10, 1931, gage height, 1,822.5 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 76,255 acre-ft Jan. 26, gage height, 1,905.20 ft; minimum, 36,811 acre-ft Sept. 30, gage height, 1,881.81 ft.

Capacity table (gage height, in feet, and contents, in acre-ft)

1822.4	397	1840	3986	1865	19050	1890	48415
1824	534	1845	6084	1870	23525	1895	56654
1827	864	1850	8693	1875	28720	1900	65761
1830	1314	1855	11783	1880	34537	1905	75833
1835	2406	1860	15180	1885	41072	1910	86785

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46541	43268	68877	67000	68165	76233	70195	68481	67225	66897	54702	40558
2	46270	43041	67969	66724	67853	73841	69615	68265	67148	67012	54159	40545
3	45970	42755	67735	66724	67617	72298	69035	68146	66974	67070	53655	40519
4	45880	42613	67735	66664	67285	70718	68579	67950	67577	67148	53070	40342
5	45610	42087	67735	66626	67265	69875	68225	67969	67813	67012	52524	40422
6	45166	41600	67677	66531	67853	69075	68029	67989	68441	67012	51967	40219
7	44840	41113	67324	66531	69715	69975	67754	67697	68857	66897	51411	40014
8	44520	41030	67167	66511	70637	69415	67697	67501	69035	66762	50886	39933
9	44185	40655	66838	66491	70798	69015	67461	67421	69155	66376	50352	39756
10	43863	40342	66684	66933	71504	69155	67381	67597	69415	65972	49584	39504
11	43893	39919	66531	66414	69995	68737	67225	67577	69655	65529	49011	39487
12	43616	39501	66338	66376	71261	72235	67148	67577	69895	65127	48415	39501
13	43282	39015	66531	65953	71827	75854	67012	67617	70115	64595	47827	39267
14	42954	38735	66376	66086	70316	71706	66897	67677	70175	64179	47383	39068
15	42683	38469	66664	65953	69315	70195	66897	67716	70175	63672	46831	38987
16	42357	38043	69155	65913	69035	69215	66877	67657	70015	62966	45955	38841
17	42031	37913	72748	65894	68461	69135	66737	67716	69895	62465	45374	38708
18	41780	45402	70055	66202	71950	68877	66704	67677	69835	62263	44784	38575
19	41447	49106	68559	67873	70577	68461	66781	67698	69775	61455	44798	38416
20	41113	50624	68089	67245	69475	68089	66797	67773	69635	60945	43950	38283
21	40891	50928	74423	66838	68757	68265	66936	68029	69395	60437	43512	38150
22	40821	51232	72768	67931	68401	68717	67012	68069	69395	59969	43297	38043
23	40821	53336	71890	68049	68089	68817	68777	67677	69215	59519	42413	37887
24	40710	54277	69795	72687	68185	69875	68857	67617	68955	58950	41850	37757
25	40696	54396	68817	70095	69835	69175	68539	67577	68737	58665	41502	37627
26	41641	54685	68285	76255	69755	68817	68205	67538	68539	58224	41169	37510
27	41614	54991	68029	74864	71990	70095	68441	67501	68265	57887	41127	37380
28	41669	57330	67536	71039	72460	69235	69035	67501	67989	57294	41030	37148
29	41489	68679	67362	70135	---	68777	68935	67461	67697	56653	40933	36980
30	43198	70456	67186	69335	---	69715	68659	67421	67343	55793	40835	36811
31	43541	---	67110	68679	---	71766	---	67381	---	55246	40655	---
MAX	46541	70456	74423	76255	72460	76233	70195	68481	70175	67148	54702	40558
MIN	40696	37913	66338	65894	67265	68089	66704	67381	66974	55246	40655	36811
a	1886.75	1902.39	1900.70	1901.50	1903.38	1903.04	1901.49	1900.84	1900.82	1894.18	1884.70	1881.81
b	-3047	+26915	-3347	+1569	+3781	-694	-3107	-1278	-38	-12097	-14591	-3844

CAL YR 1982 b -2825
WAT YR 1983 b -9777

a Gage height, in feet, at end of month.
b Change in contents, in acre-feet.

EEL RIVER BASIN

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°24'29", long 122°58'29", in SE 1/4 sec.15, T.18 N., R.10 W., Lake County, Hydrologic Unit 18010103, Mendocino National Forest, on left bank 0.4 mi upstream from Soda Creek, 0.7 mi downstream from Scott Dam, and 9.7 mi northeast of town of Potter Valley.

DRAINAGE AREA.--290 mi².

PERIOD OF RECORD.--October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Hullville, and October 1929 to September 1953 as "at Hullville."

REVISED RECORDS.--WSP 1315-B: 1923(M), 1938(M). WSP 1395: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 1,740 ft from topographic map. Prior to Dec. 15, 1930, at datum 3.00 ft higher.

REMARKS.--Flow regulated by Lake Pillsbury (station 11470000) 0.7 mi upstream. No diversion above station.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Energy Regulatory Commission Project.

AVERAGE DISCHARGE.--61 years, 567 ft³/s, 410,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,300 ft³/s Dec. 22, 1964, gage height, 24.24 ft, from floodmarks, from rating curve extended above 9,400 ft³/s on basis of computed flow over Scott Dam at gage heights 18.50 ft and 21.85 ft; minimum daily, 0.1 ft³/s Sept. 8, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,000 ft³/s Jan. 26, gage height, 16.33 ft; minimum daily, 54 ft³/s Nov. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	350	3120	716	2080	14100	4740	2240	695	242	317	99
2	159	295	1750	649	1710	10100	3710	1970	640	162	312	96
3	150	294	1410	607	1460	8480	2970	1770	549	162	307	94
4	151	293	1370	571	1250	5560	2400	1680	372	167	311	93
5	150	303	1370	546	1190	4040	2000	1700	345	168	311	93
6	151	313	1240	520	1610	3200	1700	1730	340	177	308	93
7	158	312	1010	494	3890	3790	1510	1480	349	182	304	93
8	158	313	813	476	4950	3500	1390	1370	337	277	308	93
9	158	311	670	450	5130	2940	1340	1090	336	365	303	92
10	158	309	577	425	6130	2880	1250	897	335	355	299	92
11	160	314	499	402	4450	2670	1150	957	335	353	295	92
12	165	319	457	381	5070	2970	1080	950	334	348	297	92
13	167	318	485	418	6570	12600	972	926	339	362	297	92
14	166	321	431	433	4830	7960	891	935	341	379	289	92
15	166	325	540	375	3500	4590	828	911	348	372	294	92
16	166	324	2860	361	2980	3350	782	954	347	367	298	92
17	166	274	9260	371	2380	3110	758	962	350	362	301	92
18	166	54	3950	559	4920	2850	752	976	350	366	303	92
19	165	194	2240	1700	5400	2350	776	1050	346	363	296	92
20	165	162	2100	1250	3610	1980	815	1090	346	364	290	92
21	165	440	8270	935	2690	2150	857	1140	348	357	295	92
22	162	418	9250	1380	2180	2270	844	1150	353	336	293	92
23	157	225	7560	2110	1930	2830	1400	1110	355	326	291	92
24	157	318	3950	7500	2040	3710	2560	1060	350	326	294	92
25	162	276	2580	4790	2490	3870	2510	1050	349	325	310	92
26	134	276	1900	10800	3900	2920	2100	1020	352	326	185	92
27	155	269	1510	15400	4600	3740	1930	1000	348	318	95	92
28	161	221	1240	6550	7610	3370	2890	960	342	309	98	92
29	313	620	1070	4480	---	2710	2820	924	345	309	98	92
30	332	4020	909	3410	---	3250	2460	871	337	311	95	92
31	494	---	803	2610	---	6790	---	785	---	314	98	---
TOTAL	5520	12781	75194	71669	100550	140630	52185	36708	11213	9450	8192	2778
MEAN	178	426	2426	2312	3591	4536	1740	1184	374	305	264	92.6
MAX	494	4020	9260	15400	7610	14100	4740	2240	695	379	317	99
MIN	83	54	431	361	1190	1980	752	785	334	162	95	92
AC-FT	10950	25350	149100	142200	199400	278900	103500	72810	22240	18740	16250	5510
CAL YR 1982	TOTAL	378929	MEAN	1038	MAX	24500	MIN	41	AC-FT	751600		
WTR YR 1983	TOTAL	526870	MEAN	1443	MAX	15400	MIN	54	AC-FT	1045000		

11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°21'42", long 123°07'38", in SW 1/4 NW 1/4 sec.6, T.17 N., R.11 W., Mendocino County, Hydrologic Unit 18010103 on right bank 100 ft downstream from powerhouse of Pacific Gas and Electric Co., 1.8 mi southwest of Van Arsdale Dam, and 2.9 mi northwest of town of Potter Valley.

PERIOD OF RECORD.--December 1909 to current year. Prior to October 1922, monthly discharge only, published in WSP 1315-B. Prior to October 1931, published as Snow Mountain Water and Power Co.'s tailrace near Potter Valley.

REVISED RECORDS.--WSP 1395: 1950.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 1,020 ft from topographic map. No gage prior to Dec. 1, 1922. Dec. 1, 1922, to Sept. 30, 1923, nonrecording gage and Oct. 1, 1923, to Apr. 12, 1950, water-stage recorder, at site 50 ft upstream at different datum.

REMARKS.--Water is diverted from Eel River above Van Arsdale Dam. After passing through powerhouse, part of it is used for irrigation in Potter Valley and remainder flows into East Fork Russian River. Water for irrigation diverted from tailrace is included in figures of discharge.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Energy Regulatory Commission Project.

AVERAGE DISCHARGE.--73 years (water years 1911-83), 204 ft³/s, 147,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (1922 TO CURRENT YEAR).--Maximum daily discharge, 351 ft³/s Oct. 31, 1982; no flow at times in several years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	248	205	318	318	318	318	318	318	230	318	92
2	145	226	226	318	318	318	318	318	318	161	318	92
3	144	226	226	318	318	289	318	318	318	161	318	92
4	164	226	226	318	318	318	297	318	318	161	318	92
5	166	226	226	318	318	318	318	318	318	161	318	92
6	164	226	226	319	318	318	318	318	318	161	318	92
7	162	226	226	319	318	318	318	318	318	161	318	107
8	160	226	226	319	318	318	318	318	318	198	318	94
9	158	226	241	319	318	318	318	262	318	318	318	88
10	160	226	318	318	318	318	318	318	318	318	318	86
11	156	226	318	318	318	318	318	318	318	318	318	86
12	160	226	318	318	318	318	317	318	318	318	318	86
13	161	226	318	318	318	318	317	318	318	318	318	86
14	162	226	318	318	318	318	318	318	318	318	318	86
15	163	226	318	278	318	318	318	318	318	318	318	84
16	163	226	275	318	318	318	318	318	318	318	318	77
17	162	226	180	318	318	318	318	318	318	318	318	80
18	162	188	318	318	318	318	318	318	318	318	318	82
19	162	226	318	318	318	318	318	318	318	318	231	84
20	155	226	309	318	318	318	318	318	318	318	250	86
21	163	226	250	318	318	318	318	318	318	318	318	86
22	165	226	318	318	318	318	318	318	318	318	318	86
23	162	226	318	318	318	318	318	318	318	318	318	86
24	163	226	318	231	318	318	318	318	318	318	318	86
25	163	226	318	318	318	318	318	318	318	318	318	86
26	161	226	318	318	318	318	318	318	249	318	209	87
27	148	226	318	318	318	318	318	318	318	318	100	89
28	164	210	318	318	318	318	318	318	318	318	95	87
29	184	224	318	318	---	318	318	318	292	318	92	86
30	257	184	318	318	---	318	318	318	318	318	92	86
31	351	---	318	318	---	318	---	318	---	318	92	---
TOTAL	5154	6704	8766	9735	8904	9829	9517	9802	9445	8708	8475	2629
MEAN	166	223	283	314	318	317	317	316	315	281	273	87.6
MAX	351	248	318	319	318	318	318	318	318	318	318	107
MIN	44	184	180	231	318	289	297	262	249	161	92	77
AC-FT	10220	13300	17390	19310	17660	19500	18880	19440	18730	17270	16810	5210
CAL YR 1982	TOTAL	96652	MEAN	265	MAX	351	MIN	35	AC-FT	191700		
WTR YR 1983	TOTAL	97668	MEAN	268	MAX	351	MIN	44	AC-FT	193700		

EEL RIVER BASIN

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°23'19", long 123°06'54", in NE 1/4 sec.30, T.18 N., R.11 W., Mendocino County, Hydrologic Unit 18010103, on left bank 1,000 ft downstream from Van Arsdale Dam, and 4.6 mi north of town of Potter Valley.

DRAINAGE AREA.--349 mi².

PERIOD OF RECORD.--November 1909 to September 1922 (combined monthly discharge only, of Eel River at this station and Snow Mountain Water and Power Co.'s tailrace near Potter Valley), October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Van Arsdale Dam, near Potter Valley.

REVISED RECORDS.--WSP 1315-B: 1913, 1920-23, 1925-27. WSP 1395: 1923(M), 1938.

GAGE.--Water-stage recorder. Altitude of gage is 1,400 ft from topographic map. Nov. 18, 1909, to Mar. 3, 1927, recorder in reservoir 800 ft upstream from Van Arsdale Dam at different datum. Oct. 1, 1927, to Feb. 28, 1937, nonrecording gage at present site and datum.

REMARKS.--Flow regulated by Lake Pillsbury (station 11470000) 11 mi upstream. Water is diverted from Van Arsdale Reservoir through tunnel to Potter Valley powerhouse (station 11471000) after which part is used for irrigation and remainder flows into East Fork Russian River. Records given herein show only flow passing down Eel River.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Energy Regulatory Commission Project.

AVERAGE DISCHARGE (combined flow of Eel River at Van Arsdale Dam and Potter Valley powerhouse tailrace).--74 years (water years 1910-83), 674 ft³/s 488,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,100 ft³/s Dec. 22, 1964, gage height, 33.9 ft from floodmarks; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,000 ft³/s Jan. 26, gage height, 23.09 ft; minimum daily, 5.0 ft³/s Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	21	3890	473	2150	17100	5620	2620	440	25	9.2	10
2	10	8.9	2200	383	1820	11600	4400	2310	384	22	9.2	10
3	12	7.8	1780	332	1560	7670	3420	2080	308	8.7	9.0	9.9
4	7.3	8.0	1690	278	1170	5100	2800	1970	100	14	9.0	9.6
5	5.0	9.8	1650	245	1050	3930	2380	2050	70	12	9.0	9.2
6	5.7	8.1	1420	211	1750	3840	2070	2060	61	12	9.0	8.5
7	12	9.1	1070	182	4460	4290	1890	1770	59	18	9.0	7.4
8	10	14	752	158	5930	3550	1750	1580	55	16	9.0	8.0
9	13	12	515	133	6170	3150	1670	1320	54	25	9.0	8.6
10	9.8	9.5	330	108	7520	3150	1510	999	54	12	9.0	9.0
11	10	9.3	228	90	5670	2750	1380	978	54	9.2	9.0	9.1
12	14	11	182	73	5100	6770	1250	925	50	11	8.4	9.2
13	12	9.3	227	83	7840	16100	1060	888	41	12	8.4	11
14	13	9.7	160	108	6650	9540	888	862	39	16	8.3	8.7
15	12	10	294	78	4430	4910	786	880	39	13	8.4	8.0
16	11	12	3470	55	3560	3850	689	894	36	9.8	9.2	8.5
17	11	125	12000	55	2870	3760	657	857	34	10	9.2	14
18	12	1010	4600	364	3050	3380	673	763	33	10	9.0	14
19	11	312	2500	1930	7540	2790	706	873	31	10	9.0	12
20	17	45	2360	1210	5100	2450	755	912	29	11	66	11
21	10	101	10700	749	3520	2630	797	963	28	12	12	12
22	17	299	11900	1350	2740	3000	775	972	28	12	11	10
23	22	154	9610	2330	2310	3510	2140	905	25	11	9.7	9.5
24	9.8	202	4690	9380	2240	5290	3160	858	23	11	8.5	12
25	33	108	2930	5510	2290	5000	3010	821	23	10	8.6	11
26	58	89	2150	13500	3690	3890	2510	821	61	10	9.4	11
27	9.1	105	1730	18200	4710	5400	2720	809	18	10	11	8.3
28	16	762	1310	7810	9790	4310	3520	770	18	9.8	10	8.0
29	66	1430	1080	5180	---	3660	3340	704	34	9.8	9.5	9.1
30	131	5460	786	3630	---	5360	2900	634	15	9.5	9.6	9.4
31	39	---	596	2720	---	8530	---	548	---	9.2	9.8	---
TOTAL	626.4	10371.5	88800	76908	116680	170260	61226	36396	2244	391.0	344.4	296.0
MEAN	20.2	346	2865	2481	4167	5492	2041	1174	74.8	12.6	11.1	9.87
MAX	131	5460	12000	18200	9790	17100	5620	2620	440	25	66	14
MIN	5.0	7.8	160	55	1050	2450	657	548	15	8.7	8.3	7.4
AC-FT	1240	20570	176100	152500	231400	337700	121400	72190	4450	776	683	587

CAL YR 1982 TOTAL 411063.8 MEAN 1126 MAX 29200 MIN 5.0 AC-FT 815300
WTR YR 1983 TOTAL 564543.3 MEAN 1547 MAX 18200 MIN 5.0 AC-FT 1120000

EEL RIVER BASIN

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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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 1,001.28 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow partly regulated by Lake Pillsbury (station 11470000) 40 mi upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--17 years, 1,042 ft³/s, 754,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,500 ft³/s Jan. 16, 1974, gage height, 33.64 ft, from rating curve extended above 26,000 ft³/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 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,900 ft³/s Jan. 26, gage height, 24.69 ft; minimum daily, 9.7 ft³/s Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	121	5540	1060	3180	17000	7000	2980	630	56	22	32
2	10	75	3080	918	2600	12000	5230	2570	542	66	21	27
3	9.8	55	2460	789	2210	8000	4030	2290	479	73	19	22
4	9.7	43	2220	709	1920	5500	3280	2140	348	58	18	20
5	11	38	2060	629	2430	4800	2790	2330	197	51	18	19
6	12	35	1850	574	4090	4100	2460	2410	164	49	19	17
7	13	34	1580	510	7980	6200	2210	2070	143	47	18	17
8	12	39	1280	445	8800	5000	2020	1860	137	48	17	16
9	13	51	1020	414	8940	4200	1910	1720	132	48	18	14
10	14	52	775	361	10200	4210	1810	1410	124	47	18	14
11	14	43	611	320	6750	3740	1700	1360	126	44	17	15
12	14	38	558	287	8090	5650	1610	1290	126	39	15	15
13	13	36	783	247	9760	21500	1480	1260	119	32	15	15
14	14	34	612	282	7080	12200	1350	1230	110	32	14	15
15	15	28	1380	296	5380	7090	1260	1180	100	31	15	14
16	14	24	9430	269	4550	5090	1170	1170	96	32	14	14
17	14	1200	16300	243	3800	5510	1110	1130	92	32	13	13
18	14	5110	6640	891	12000	4850	1090	1080	88	31	13	12
19	14	2540	3640	3360	7000	3850	1110	1080	86	30	13	12
20	14	1120	3370	2440	4800	3270	1140	1120	84	31	24	14
21	14	602	16000	1770	3800	3490	1180	1130	76	31	55	14
22	29	1310	16400	2420	3600	4480	1160	1130	74	31	28	14
23	45	1200	13500	3730	3900	5230	3700	1080	71	31	21	14
24	49	720	6940	12500	4400	9600	4250	1020	69	30	19	17
25	39	465	4140	7640	7800	8000	4280	976	68	29	17	17
26	96	321	2980	23200	6800	5080	3160	947	63	28	16	17
27	94	311	2350	27400	10000	7400	4350	922	84	28	15	16
28	44	2820	1960	10600	11000	5300	4910	894	68	27	15	15
29	426	5300	1670	7250	---	4610	4140	839	58	26	16	14
30	937	8680	1480	5400	---	7000	3430	783	66	25	16	14
31	247	---	1270	4050	---	13000	---	703	---	22	24	---
TOTAL	2274.5	32445	133879	121004	172860	216950	80320	44104	4620	1185	583	489
MEAN	73.4	1082	4319	3903	6174	6998	2677	1423	154	38.2	18.8	16.3
MAX	937	8680	16400	27400	12000	21500	7000	2980	630	73	55	32
MIN	9.7	24	558	243	1920	3270	1090	703	58	22	13	12
AC-FT	4510	64350	265500	240000	342900	430300	159300	87480	9160	2350	1160	970
CAL YR 1982	TOTAL	583202.5	MEAN	1598	MAX	22000	MIN	9.7	AC-FT	1157000		
WTR YR 1983	TOTAL	810713.5	MEAN	2221	MAX	27400	MIN	9.7	AC-FT	1608000		

EEL RIVER BASIN

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 mi².

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 National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--27 years, 437 ft³/s, 316,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,900 ft³/s Dec. 22, 1964, gage height, 30.6 ft, from floodmarks, from rating curve extended above 17,000 ft³/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 above base of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 28	1800	7,700	10.70	Jan. 26	Unknown	*17,500	16.12
Dec. 16	2030	16,600	15.69	Mar. 1	Unknown	7,800	Unknown
Dec. 21	1245	15,500	15.11	Mar. 13	Unknown	7,400	Unknown

Minimum daily, 1.70 ft³/s Oct. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	81	2890	237	1530	5700	3300	580	52	21	4.7	14
2	1.7	43	1770	212	1230	4100	2850	480	48	23	4.5	9.7
3	1.7	28	1280	204	890	2800	2450	400	45	25	4.1	7.6
4	1.7	21	1020	189	790	1800	2070	340	43	21	3.7	6.2
5	1.8	17	771	172	820	1300	1800	380	41	18	3.5	5.4
6	2.3	15	571	159	910	1040	1580	440	39	15	3.6	4.8
7	3.0	13	427	147	1060	1420	1370	385	38	14	3.3	4.3
8	2.8	17	339	138	1250	1240	1180	335	36	13	3.2	4.2
9	3.2	29	279	127	1530	1000	1030	305	35	12	3.4	4.0
10	3.9	32	234	118	1950	1270	900	275	33	12	3.4	3.9
11	4.9	24	198	111	1500	875	800	250	33	11	3.2	4.0
12	4.1	19	247	106	1700	1700	710	230	32	10	3.2	3.9
13	3.7	16	492	100	1850	5700	645	212	31	10	3.1	3.4
14	5.2	14	388	95	1450	3200	580	194	30	9.6	3.1	3.1
15	7.2	13	1370	99	1270	1750	520	175	29	9.2	3.0	2.9
16	6.2	12	8200	119	1140	1490	455	160	28	9.0	2.7	2.9
17	5.7	1100	5440	130	1090	2380	415	149	27	8.8	2.5	2.7
18	5.2	4090	2330	2190	2400	1860	375	137	26	8.2	2.4	2.6
19	4.9	2350	1320	2310	1850	1500	395	123	26	7.0	2.3	2.5
20	4.8	1070	1810	1180	1490	1300	430	115	25	7.0	2.3	2.5
21	4.8	530	7630	720	1310	1600	400	106	24	6.8	5.0	2.1
22	11	1130	5890	1090	1400	2100	580	93	23	6.7	14	2.5
23	16	1030	4020	1670	1540	2800	760	86	23	6.6	4.7	3.2
24	18	575	2250	4540	1730	3700	880	80	22	6.2	5.2	4.3
25	13	345	1380	2200	1900	2200	620	75	22	6.0	4.2	3.0
26	23	240	868	13000	1650	2500	490	72	20	6.0	3.6	2.9
27	19	255	595	10000	3000	3250	580	67	22	5.9	3.4	2.7
28	13	2550	455	6600	3200	2400	1000	62	20	5.7	3.5	2.6
29	570	4330	375	4200	---	1960	820	58	19	5.4	3.6	2.7
30	567	5610	322	3100	---	2900	700	55	22	5.1	4.0	2.7
31	149	---	275	2100	---	4000	---	54	---	4.7	11	---
TOTAL	1479.6	25599	55436	57363	43430	72835	30685	6473	914	328.9	127.4	123.3
MEAN	47.7	853	1788	1850	1551	2350	1023	209	30.5	10.6	4.11	4.11
MAX	570	5610	8200	13000	3200	5700	3300	580	52	25	14	14
MIN	1.7	12	198	95	790	875	375	54	19	4.7	2.3	2.1
AC-FT	2930	50780	110000	113800	86140	144500	60860	12840	1810	652	253	245

CAL YR 1982 TOTAL 238355.3 MEAN 653 MAX 11000 MIN 1.3 AC-FT 472800
WTR YR 1983 TOTAL 294794.2 MEAN 808 MAX 13000 MIN 1.7 AC-FT 584700

Note: No gage height record Jan. 25 to Mar. 7, Mar. 19 to May 11, June 2 to Aug. 25.

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 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 901.58 ft National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--18 years, 1,759 ft³/s, 1,274,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,500 ft³/s Jan. 23, 1970, gage height, 27.15 ft; minimum daily, 3.3 ft³/s Aug. 21-23, Sept. 12-14, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 35,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 17	0130	42,900	21.13	Jan. 26	2115	*76,800	25.64
Dec. 21	1600	37,800	20.29	Mar. 13	0900	45,400	21.51

Minimum daily, 23 ft³/s Oct. 5, 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	1180	5080	1870	4550	21000	6960	3880	2970	517	72	67
2	25	795	3780	1680	3990	15000	7170	3600	2650	678	66	88
3	24	623	4170	1680	3490	11100	5340	3550	2430	549	61	73
4	24	531	4580	1620	3100	8240	4340	3640	2470	496	58	63
5	23	474	4930	1620	3510	7090	3760	3970	2450	468	56	58
6	25	433	4680	1630	5020	6110	3030	3870	2420	454	52	55
7	30	398	3810	1600	8340	8560	2940	3380	2390	417	49	53
8	34	375	3150	1630	10500	7480	3060	3110	2320	355	45	52
9	35	361	2730	1510	10700	6910	2940	2840	2240	315	43	50
10	32	339	2430	1330	14500	8640	2640	2600	2090	272	42	49
11	30	316	2170	1200	8410	7170	2400	2460	2010	240	40	48
12	29	300	2020	1130	13300	9050	2220	2530	1810	234	39	46
13	28	285	2340	1050	12800	31400	1980	2730	1690	233	37	45
14	26	276	1980	961	8570	12600	1740	2830	1650	231	47	43
15	25	264	4300	920	7300	7500	1710	3350	1590	218	48	41
16	24	255	14900	1150	7080	5590	1680	3580	1510	189	40	39
17	24	1230	22800	1190	6080	5500	1770	3430	1500	166	35	37
18	24	13500	7280	3120	15900	4720	1900	3680	1420	152	32	34
19	23	6410	4920	6230	9740	3810	1970	4460	1260	149	31	32
20	23	3080	5520	3660	7030	3370	2310	4770	1090	148	32	31
21	25	1970	22300	2950	5810	4010	2570	5160	999	140	70	30
22	36	2690	14200	4350	5450	5130	2720	5110	929	128	126	30
23	248	3000	10400	4780	5690	5340	5830	4970	912	119	59	34
24	401	2280	6090	16700	6190	9240	4990	4830	844	113	64	47
25	170	1730	4720	7170	10300	5950	4250	4820	786	107	60	45
26	1110	1320	3960	38700	9580	6370	3420	4750	748	100	54	44
27	543	1400	3530	29000	13300	7230	5260	4840	716	92	50	41
28	260	5340	3060	12100	13900	4710	5380	4740	658	87	48	38
29	335	11600	2690	8500	---	4650	4510	4440	614	79	46	36
30	5480	9190	2380	6750	---	10200	4000	4030	573	79	46	40
31	2080	---	2130	5370	---	13600	---	3460	---	77	50	---
TOTAL	11222	71945	183030	173151	234130	267270	104790	119410	47739	7602	1598	1389
MEAN	362	2398	5904	5586	8362	8622	3493	3852	1591	245	51.5	46.3
MAX	5480	13500	22800	38700	15900	31400	7170	5160	2970	678	126	88
MIN	23	255	1980	920	3100	3370	1680	2460	573	77	31	30
AC-FT	22260	142700	363000	343400	464400	530100	207900	236800	94690	15080	3170	2760
CAL YR 1982	TOTAL	920198	MEAN	2521	MAX	33000	MIN	20	AC-FT	1825000		
WTR YR 1983	TOTAL	1223276	MEAN	3351	MAX	38700	MIN	23	AC-FT	2426000		

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956 to September 1983 (discontinued).

CHEMICAL ANALYSES: Water years 1959-66. Prior to October 1965, published as "at Dos Rios."

SPECIFIC CONDUCTANCE: Water year 1967.

WATER TEMPERATURES: Water years 1958-59, 1961 to September 1983 (discontinued).

SEDIMENT RECORDS: Water years 1956-76, 1981-82.

TURBIDITY: Water years 1965-68.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1966 to September 1967.

WATER TEMPERATURES: October 1957 to September 1959, October 1960 to September 1983 (discontinued).

SEDIMENT RECORDS: October 1965 to September 1976.

INSTRUMENTATION.--Temperature recorder from March 1970 to September 1983.

REMARKS.--Difference between recorder values before adjustment and field measurement values exceeded $\pm 1.0^{\circ}\text{C}$ for water temperature at times during the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 35.5°C June 20, 1973; minimum recorded, 0.0°C Dec. 22, 1968.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 27.0°C July 13; minimum recorded, 3.5°C Jan. 1.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	15.0	12.0	10.5	8.0	7.5	4.5	3.5	7.0	6.0	9.0	8.0
2	18.0	15.0	12.0	10.0	7.5	7.5	6.0	4.5	7.0	6.0	9.0	8.5
3	18.5	15.0	11.0	10.0	8.5	7.5	7.0	6.0	7.5	7.0	9.0	8.0
4	18.5	15.5	11.0	10.0	9.0	8.5	7.5	6.5	7.0	6.0	9.5	8.5
5	17.0	14.5	11.0	9.5	9.5	9.0	7.5	6.5	7.5	6.5	10.0	8.5
6	16.0	15.0	11.0	10.0	9.5	8.5	7.0	6.5	7.5	7.0	9.0	7.5
7	16.0	13.5	11.0	9.5	8.5	6.5	7.5	6.5	8.0	7.0	9.0	8.5
8	16.0	13.0	10.5	10.0	6.5	5.0	7.5	6.5	8.0	7.5	9.5	8.5
9	17.0	14.0	10.5	9.5	6.0	5.0	7.0	5.5	8.0	7.5	10.0	9.0
10	16.5	14.5	10.0	9.0	6.0	5.0	5.5	4.5	8.5	7.5	10.0	9.5
11	16.5	14.5	9.5	8.5	6.5	5.5	5.5	4.5	9.0	8.0	9.5	8.0
12	17.0	14.5	9.5	9.0	5.5	5.0	5.5	4.5	9.0	8.5	9.5	8.5
13	16.5	15.0	9.5	8.0	7.0	5.5	5.5	4.5	8.5	7.5	9.5	8.0
14	17.5	14.5	8.5	7.5	6.5	6.0	5.5	4.0	8.5	7.5	8.5	7.5
15	17.0	15.0	8.0	7.0	8.0	6.5	6.5	5.5	8.5	8.5	8.5	7.0
16	17.5	15.0	8.0	7.5	9.0	8.0	7.5	6.5	8.5	7.0	8.5	7.0
17	17.0	14.5	9.0	8.0	9.0	8.0	8.0	7.5	9.0	7.5	8.0	7.5
18	15.5	14.0	9.5	9.0	8.0	6.5	8.5	8.0	9.0	8.0	9.5	7.0
19	16.5	15.0	9.0	8.0	7.5	7.0	7.5	6.0	8.0	6.5	10.0	8.0
20	17.0	16.0	8.5	8.0	8.0	7.5	6.0	5.0	8.5	7.0	10.0	8.5
21	17.0	16.5	8.5	7.5	8.5	7.5	5.5	5.0	8.5	8.0	9.0	8.0
22	17.5	16.5	8.0	7.5	8.0	7.5	7.0	5.5	9.5	8.5	9.0	8.0
23	18.0	17.0	9.0	8.0	7.5	6.5	8.0	5.5	9.5	9.0	8.0	7.0
24	17.0	15.5	9.0	8.0	6.5	5.0	8.0	7.0	9.0	8.5	7.5	6.5
25	16.5	16.0	8.0	7.5	6.0	5.0	7.5	6.5	9.0	7.5	9.5	6.5
26	15.5	13.5	8.0	7.0	7.0	6.0	8.5	8.0	8.0	7.0	9.0	6.5
27	13.5	12.5	9.0	7.5	7.5	7.0	8.0	7.5	8.0	7.5	9.0	7.0
28	13.0	11.5	9.5	9.0	7.0	5.5	8.0	7.0	8.5	8.0	9.0	7.0
29	12.5	12.5	9.5	9.0	5.5	4.5	7.5	7.0	---	---	9.0	8.0
30	12.5	11.5	9.0	8.0	5.0	4.0	7.5	6.5	---	---	9.5	8.5
31	12.5	11.0	---	---	4.5	4.0	7.5	6.5	---	---	9.5	7.0
MONTH	18.5	11.0	12.0	7.0	9.5	4.0	8.5	3.5	9.5	6.0	10.0	6.5

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	7.5	11.5	9.0	14.0	12.0	20.0	19.0	25.0	22.5	22.5	19.5
2	9.5	7.5	12.0	9.0	15.5	11.5	21.0	17.0	25.0	22.5	23.5	20.0
3	8.5	6.5	12.0	9.5	16.5	12.0	22.5	17.5	24.0	22.5	24.0	21.0
4	9.0	6.5	12.0	10.0	16.5	12.5	23.0	19.0	24.0	22.0	25.0	22.0
5	9.5	7.0	10.0	8.5	17.0	13.5	25.0	20.0	23.0	21.0	25.5	23.0
6	10.0	7.0	10.5	7.5	17.0	13.5	23.5	20.0	23.0	22.0	25.5	23.5
7	11.0	8.0	11.0	8.5	17.5	14.0	22.0	19.0	23.5	23.0	25.0	22.5
8	11.0	8.5	11.0	8.5	17.5	14.0	22.0	18.0	24.0	23.0	23.5	21.0
9	10.5	8.5	10.5	7.0	17.5	14.0	22.5	17.5	23.5	22.5	22.0	18.5
10	10.0	7.0	11.5	7.5	16.0	13.5	24.0	19.5	23.5	22.5	23.5	20.0
11	9.0	7.5	12.5	8.5	16.0	12.0	25.0	20.0	23.0	22.5	24.5	22.0
12	9.0	6.5	12.5	9.5	17.5	13.0	26.0	21.5	23.5	23.0	25.0	23.0
13	10.0	6.5	13.0	9.0	19.0	14.5	27.0	22.5	23.5	23.5	25.5	23.0
14	9.5	7.0	13.5	10.0	18.0	15.5	25.5	22.5	23.5	23.0	25.5	23.0
15	11.0	7.0	13.0	10.5	19.0	15.0	25.5	20.5	23.5	23.0	25.0	22.0
16	11.5	8.5	12.5	9.5	20.0	15.5	24.5	20.0	23.5	23.5	24.0	20.5
17	11.0	9.0	13.0	10.0	19.5	16.5	24.0	20.0	23.5	23.0	24.0	21.5
18	10.5	8.5	13.5	10.5	18.5	15.0	23.0	20.0	23.5	22.5	24.0	22.0
19	11.0	9.5	13.5	11.0	18.5	14.5	22.5	19.5	23.0	22.5	23.5	21.5
20	11.0	9.5	13.5	10.0	19.5	15.0	23.5	18.5	22.5	22.0	23.0	20.5
21	12.0	9.5	13.0	10.0	20.0	15.5	25.0	20.0	23.0	23.0	23.0	21.5
22	11.5	9.0	13.0	10.5	20.5	16.5	25.0	20.5	23.0	19.5	22.5	22.0
23	9.0	8.0	13.5	10.5	20.5	17.0	25.5	21.5	23.0	21.0	22.5	21.5
24	8.0	6.5	14.0	11.0	20.5	16.5	24.5	21.0	23.5	21.0	23.5	21.5
25	9.5	6.5	14.0	11.0	21.0	17.0	25.0	21.0	23.5	21.5	23.0	21.5
26	9.5	7.5	14.5	11.0	21.5	17.5	25.0	20.5	23.5	20.5	23.0	21.0
27	9.5	8.0	14.5	11.5	22.0	18.0	25.0	21.0	23.0	21.0	22.0	21.0
28	9.5	7.5	14.5	12.0	21.5	18.5	25.5	22.0	23.0	20.0	22.0	20.5
29	9.5	7.5	14.5	11.5	22.0	18.5	26.0	22.0	22.0	21.0	21.5	20.5
30	11.0	8.5	14.0	11.5	21.5	18.5	26.0	23.0	22.5	21.5	21.5	20.5
31	---	---	14.0	12.0	---	---	25.5	23.0	22.5	20.5	---	---
MONTH	12.0	6.5	14.5	7.0	22.0	11.5	27.0	17.0	25.0	19.5	25.5	18.5

EEL RIVER BASIN

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 mi².

PERIOD OF RECORD.--September 1955 to current year. Prior to October 1965, published as "at Alderpoint."

GAGE.--Water-stage recorder. Datum of gage is 217.26 ft 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.--Records good. Flow slightly regulated by Lake Pillsbury (station 11470000) 99 mi upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--28 years, 4,908 ft³/s, 3,556,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 561,000 ft³/s Dec. 22, 1964, gage height, 87.2 ft, from floodmarks, site and datum then in use, from rating curve extended above 110,000 ft³/s on basis of slope-area measurement at gage height 72.5 ft; minimum daily, 1.2 ft³/s Sept. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 41,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 17	0415	112,000	36.13	Feb. 18	1815	59,100	27.12
Dec. 21	2115	103,000	34.81	Mar. 1	1045	84,100	31.71
Jan. 26	2345	*201,000	47.88	Mar. 13	1230	102,000	34.61
Feb. 10	0530	73,800	29.91	Mar. 24	1900	46,300	24.45
Feb. 13	1145	47,700	24.76	Mar. 31	0700	58,100	26.93

Minimum daily, 66 ft³/s Oct. 5-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	1530	25400	5450	16500	74400	31400	13400	4570	801	257	336
2	70	870	14800	4680	14100	57000	25400	11400	3970	779	248	320
3	68	604	13200	4190	12200	44000	20200	10000	3530	924	240	279
4	67	470	12200	3960	10500	30900	16200	9210	3330	808	229	252
5	66	394	11200	3620	10900	24000	13700	9670	3150	738	224	212
6	66	348	9830	3450	14600	20000	11800	11100	2980	687	217	188
7	66	314	7830	3190	28900	23300	10300	9200	2900	651	211	171
8	68	301	6090	2980	38600	22000	9340	8210	2800	609	206	154
9	71	305	4990	2890	41000	18900	8730	7590	2650	571	195	142
10	72	306	4220	2680	60700	20400	8130	6690	2460	549	188	133
11	74	304	3550	2470	34300	18300	7320	6040	2370	517	182	125
12	75	286	3220	2340	40100	22700	6690	5660	2140	493	177	115
13	75	266	4450	2250	44900	81200	6060	5980	1890	470	174	108
14	75	252	4040	2150	32600	52200	5540	5760	1760	454	166	102
15	75	242	13100	2100	24800	31500	5140	5880	1710	442	163	102
16	72	234	43500	2160	24600	23300	4810	6180	1630	431	164	97
17	70	1040	81300	2350	19400	23700	4670	5980	1550	410	164	93
18	70	27300	31800	6730	42500	21500	4760	5890	1540	389	156	89
19	70	21000	18400	22100	39200	17100	4920	6480	1430	375	131	86
20	70	9660	15000	13800	25300	14400	5220	7010	1300	367	127	81
21	70	5310	57100	9900	19500	15200	5500	7450	1190	367	125	80
22	75	5640	62600	11100	16900	18000	5610	7500	1130	361	161	80
23	97	8040	51400	14700	15200	23000	15100	7260	1070	346	346	80
24	261	5390	27000	45700	16800	38700	18200	7050	1060	332	236	80
25	557	3920	18400	33600	24200	33800	18400	6860	998	324	204	81
26	512	2980	14300	97600	35600	22700	14100	6760	946	314	195	101
27	1340	2640	12200	128000	42300	29900	16700	6730	917	303	183	104
28	724	6420	10600	50200	50400	22700	22000	6700	904	295	165	98
29	746	29000	8990	32900	---	21100	18400	6300	863	288	149	93
30	7610	32400	7540	27100	---	32600	15300	5840	806	277	234	92
31	3650	---	6450	20500	---	50600	---	5150	---	269	357	---
TOTAL	17052	167766	604700	566840	796600	949100	359640	230930	59544	14941	6174	4074
MEAN	550	5592	19510	18290	28450	30620	11990	7449	1985	482	199	136
MAX	7610	32400	81300	128000	60700	81200	31400	13400	4570	924	357	336
MIN	66	234	3220	2100	10500	14400	4670	5150	806	269	125	80
AC-FT	33820	332800	1199000	1124000	1580000	1883000	713300	458000	118100	29640	12250	8080

CAL YR 1982 TOTAL 2728544 MEAN 7475 MAX 111000 MIN 46 AC-FT 5412000
WTR YR 1983 TOTAL 3777361 MEAN 10350 MAX 128000 MIN 66 AC-FT 7492000

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., altitude, 1,440 ft at site 0.5 mi east of gaging station.

DRAINAGE AREA.--6.50 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and one recording and storage-type precipitation gage. Datum of gage is 1,391.08 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. No regulation; small diversion above station for domestic use.

AVERAGE DISCHARGE.--16 years, 27.8 ft³/s, 20,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft³/s Mar. 29, 1974, gage height, 9.77 ft, from rating curve extended above 660 ft³/s on basis of slope-area measurements at gage heights 9.40 ft and 11.41 ft; minimum daily, 0.27 ft³/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 ft³/s by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16	2000	*647	7.06	Mar. 13	0515	424	6.43
Jan. 26	1815	433	6.46				

Minimum daily, 0.89 ft³/s Oct. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	6.3	146	36	82	189	161	64	9.8	6.3	2.7	5.4
2	.95	5.0	99	33	68	170	125	54	9.4	6.1	2.7	4.5
3	.89	4.3	75	31	58	150	93	48	9.2	5.2	2.7	3.7
4	.89	3.8	68	28	51	121	73	43	8.9	4.8	2.7	3.1
5	.89	3.5	62	26	53	101	60	43	8.8	4.6	2.6	2.6
6	1.1	3.2	55	24	74	88	52	41	8.5	4.6	2.5	2.4
7	1.2	3.1	47	22	129	95	45	39	8.2	4.5	2.4	2.2
8	1.2	3.5	41	20	170	95	40	37	7.8	4.5	2.2	2.1
9	1.1	3.3	36	19	186	89	36	34	7.6	4.4	2.1	2.0
10	1.0	3.0	32	18	212	98	32	31	7.6	4.2	2.1	2.0
11	1.0	2.8	28	17	166	89	29	29	8.0	4.1	2.0	2.0
12	.95	2.7	29	16	157	156	27	27	7.6	3.9	1.9	1.9
13	.95	2.7	30	16	163	334	24	24	7.2	3.7	1.8	1.9
14	.95	2.6	28	15	149	193	22	22	6.8	3.6	1.7	1.8
15	.95	2.5	91	15	131	150	21	20	6.6	3.6	1.7	1.8
16	.95	2.5	357	15	113	128	19	18	6.4	3.5	1.7	1.7
17	.95	37	307	15	116	135	17	18	6.3	3.4	1.7	1.7
18	.95	150	187	50	264	133	17	16	6.2	3.4	1.7	1.6
19	.99	97	137	73	202	107	17	16	6.0	3.4	1.6	1.6
20	1.0	56	120	59	152	90	17	15	5.9	3.4	1.7	1.6
21	1.3	40	211	51	115	86	16	14	5.8	3.4	1.8	1.5
22	1.8	49	223	61	88	107	20	14	5.5	3.3	1.9	1.5
23	3.5	54	198	70	73	135	62	13	5.5	3.1	2.0	1.6
24	3.1	45	152	150	64	213	61	13	5.4	3.0	1.9	1.8
25	4.3	36	112	140	110	188	66	12	5.3	3.0	1.8	1.8
26	5.4	29	85	305	149	156	62	12	5.3	3.0	1.7	1.7
27	3.4	31	69	289	199	169	97	11	5.1	3.0	1.8	1.7
28	2.6	83	57	175	224	148	109	11	5.1	2.9	1.8	1.6
29	32	175	50	145	---	147	92	10	5.1	2.8	1.7	1.6
30	24	173	45	123	---	249	77	10	4.9	2.7	3.8	1.6
31	9.1	---	40	100	---	238	---	10	---	2.7	7.0	---
TOTAL	110.31	1109.8	3217	2157	3718	4547	1589	769	205.8	118.1	69.4	64.0
MEAN	3.56	37.0	104	69.6	133	147	53.0	24.8	6.86	3.81	2.24	2.13
MAX	32	175	357	305	264	334	161	64	9.8	6.3	7.0	5.4
MIN	.89	2.5	28	15	51	86	16	10	4.9	2.7	1.6	1.5
AC-FT	219	2200	6380	4280	7370	9020	3150	1530	408	234	138	127
a	9.95	16.32	21.16	17.65	24.49	28.09	3.33	1.30	0.14	0.67	2.05	0.80
CAL YR 1982	TOTAL	12311.77	MEAN	33.7	MAX	357	MIN	.70	AC-FT	24420		
WTR YR 1983	TOTAL	17674.41	MEAN	48.4	MAX	357	MIN	.89	AC-FT	35060		

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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UHHOS)	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 UH-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC 15...	1100	100	85	7.3	9.0	725	4.4	10.9	99	84	910
MAR 25...	1230	184	72	7.2	9.0	725	2.5	10.2	93	K4	K10
JUN 15...	1305	6.7	107	7.8	14.5	725	.40	10.2	105	K5	120
SEP 13...	1030	1.9	131	8.0	13.5	720	.60	9.0	91	K10	170

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	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- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC 15...	28	0	7.4	2.4	4.6	26	.4	.60	35	<5.0	2.0
MAR 25...	30	0	8.2	2.3	4.4	24	.4	.50	32	1.4	2.1
JUN 15...	42	0	11	3.5	6.3	24	.4	.60	52	2.6	2.3
SEP 13...	53	0	14	4.4	7.6	23	.5	.70	64	2.8	2.8

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 190 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	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 15...	.10	12	53	--	.07	<.10	<.06	.60	.07	.06	<.01
MAR 25...	<.10	15	51	53	.07	<.10	<.06	.30	.03	.04	.04
JUN 15...	<.10	15	69	73	.09	<.10	<.06	.60	.03	.02	.02
SEP 13...	<.10	16	79	87	.11	<.10	.02	.60	.02	.01	.01

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.

EEL RIVER BASIN

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11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 25...	1230	50	<1	16	<.5	<1	<1	<3	1	27	<1
SEP 13...	1030	<10	<1	20	<.5	<1	<1	<3	1	<3	2

DATE	TIME	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 25...	7	7	3	<.1	<10	1	<1	<1	68	<6	33
SEP 13...	<4	<4	<1	<.1	<10	3	<1	<1	140	<6	<3

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED (PCI/L METHOD PCIL/L)	URANIUM DIS- SOLVED, RADON EXTRAC- TION (UG/L)
SEP 13...	1030	<2.1	<.4	1.3	<.4	1.3	<.4	.03	.03

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC 15...	1050	99	9.0	12	3.2	76
MAR 25...	1230	184	9.0	14	7.0	77
JUN 15...	1445	6.7	15.5	2	.04	--

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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 693.32 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except October and November which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--18 years, 951 ft³/s, 689,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,700 ft³/s Jan. 4, 1966, gage height, 25.4 ft, from floodmarks, from rating curve extended above 21,000 ft³/s on basis of slope-area measurement at gage height 26.13 ft; minimum daily, 7.3 ft³/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 ft³/s, by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,500 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	0815	11,700	10.78	Feb. 18	1330	15,600	12.16
Nov. 30	1700	10,700	10.28	Feb. 27	1930	12,600	10.79
Dec. 16	2330	25,300	15.71	Mar. 13	0545	21,400	14.46
Dec. 21	1530	16,200	12.68	Mar. 24	1500	15,200	11.98
Jan. 26	1645	*27,900	16.35	Mar. 30	1900	17,300	12.91
Feb. 10	0145	15,600	12.17				

Minimum daily, 25 ft³/s Oct. 18-20

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	320	5140	807	2220	8140	6180	1850	243	147	53	268
2	26	220	3190	739	1800	6270	4600	1470	238	202	51	144
3	26	180	2590	704	1500	4580	3350	1270	228	149	49	100
4	26	160	2460	642	1280	3530	2720	1100	220	126	48	79
5	26	140	2150	600	1680	3040	2290	1220	207	114	48	68
6	28	130	1790	561	2690	2590	1910	1260	197	106	48	61
7	36	120	1520	522	5070	3210	1660	1060	191	100	47	57
8	37	130	1320	481	6840	2570	1480	999	185	97	46	54
9	35	150	1180	449	8150	2340	1350	910	176	95	44	52
10	33	140	1070	417	11200	2700	1230	824	177	92	42	49
11	32	130	979	390	6160	2210	1140	747	183	88	41	48
12	31	76	954	370	6970	5930	1070	690	174	85	41	46
13	30	71	1310	349	6700	16200	998	647	167	81	40	45
14	29	67	1090	326	4780	8510	925	596	159	78	39	44
15	28	65	3320	323	4150	5290	864	550	155	73	38	42
16	27	63	11900	345	3590	4270	815	515	150	72	36	40
17	26	2080	13500	348	3530	5300	779	483	144	72	35	39
18	25	7670	5360	2310	12000	4340	746	453	139	72	35	39
19	25	4130	3120	3760	7940	3320	774	428	137	73	34	38
20	25	2120	2950	1880	4930	2810	772	402	134	74	39	38
21	27	1420	9630	1420	3640	2880	715	378	131	74	40	37
22	36	2290	9190	1890	3110	3680	810	358	127	72	43	39
23	76	2020	6470	1810	2690	4190	3760	345	123	67	44	40
24	88	1410	3930	5760	2700	11900	2620	328	122	65	42	41
25	92	1110	2560	3650	5470	8760	2670	313	119	64	41	41
26	190	913	1870	18100	6240	5340	2060	299	115	62	40	41
27	210	1030	1550	13900	9180	6300	3530	284	113	62	39	40
28	80	3620	1310	6540	9640	4200	3390	273	111	60	38	39
29	592	7910	1140	4860	---	4970	2600	264	111	57	36	38
30	2200	8200	1010	3730	---	11000	2260	256	108	56	116	38
31	800	---	901	2810	---	10600	---	250	---	55	376	---
TOTAL	4968	48085	106454	80793	145850	170970	60068	20822	4784	2690	1709	1745
MEAN	160	1603	3434	2606	5209	5515	2002	672	159	86.8	55.1	58.2
MAX	2200	8200	13500	18100	12000	16200	6180	1850	243	202	376	268
MIN	25	63	901	323	1280	2210	715	250	108	55	34	37
AC-FT	9850	95380	211200	160300	289300	339100	119100	41300	9490	5340	3390	3460
CAL YR 1982	TOTAL	471470	MEAN	1292	MAX	14900	MIN	20	AC-FT	935200		
WTR YR 1983	TOTAL	648938	MEAN	1778	MAX	18100	MIN	25	AC-FT	1287000		

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 mi².

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 1395: Drainage area. WSP 2129: 1955.

GAGE.--Water-stage recorder. Datum of gage is 217.57 ft 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.--Records good. Occasional storage and release for recreation use during summer months at Benbow Dam. No diversion above station.

AVERAGE DISCHARGE.--44 years, 1,969 ft³/s, 1,427,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 199,000 ft³/s Dec. 22, 1964, gage height, 46.0 ft, from floodmarks, from rating curve extended above 53,000 ft³/s on basis of slope-area measurement at gage height 42.7 ft; minimum observed, 9 ft³/s Oct. 17, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	1600	24,700	15.96	Feb. 18	1730	36,700	18.81
Nov. 29	1345	26,800	16.49	Feb. 28	0100	27,300	16.56
Dec. 16	2330	78,800	27.30	Mar. 13	0800	58,200	23.39
Dec. 21	1545	45,200	20.64	Mar. 24	1745	33,600	18.10
Jan. 26	2015	*85,300	28.43	Mar. 30	2400	46,000	20.80
Feb. 10	0400	46,600	20.92				

Minimum daily, 43 ft³/s Oct. 18-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	650	13300	1950	6120	20100	14900	4200	600	290	109	781
2	46	459	7380	1750	4970	14300	10500	3610	574	390	105	449
3	45	349	5590	1640	4110	10200	7640	2760	551	300	104	297
4	45	319	5090	1500	3330	7810	5860	2360	539	250	102	222
5	44	280	4550	1370	3200	6460	4900	2300	525	220	97	184
6	48	252	3710	1260	4980	5380	3900	2840	521	203	96	158
7	58	238	2960	1160	11200	6620	3300	2120	489	191	96	139
8	60	258	2410	1070	16000	6090	2770	1860	466	181	95	129
9	59	321	2030	984	21100	5420	2460	1780	465	178	93	122
10	56	297	1740	900	34300	6640	2000	1460	439	173	92	117
11	55	270	1510	871	16800	5140	1720	1360	469	168	90	114
12	52	201	1490	828	17600	12800	1600	1370	479	162	89	111
13	50	139	2120	786	17200	44500	1370	1220	447	157	88	108
14	49	131	1790	765	12200	21000	1270	1100	405	151	87	104
15	47	124	14100	756	10000	13100	1140	1100	359	145	84	102
16	46	119	44100	758	9900	9710	1040	1010	316	140	81	99
17	44	1450	46700	744	9450	11800	973	860	295	138	78	96
18	43	18500	16100	4050	29500	9960	917	936	281	138	76	93
19	43	9900	9220	10200	20100	7480	946	893	275	138	75	91
20	43	4470	8170	5420	11500	6210	895	831	267	138	78	90
21	49	2640	30000	3900	8020	5850	833	804	272	137	55	88
22	82	3450	29400	4120	6750	7150	877	767	256	133	65	89
23	129	3970	22600	4290	5720	9340	8000	712	250	131	84	94
24	167	2670	12300	13300	5980	23400	7400	697	240	128	84	97
25	173	1950	7960	9490	10900	20100	7200	687	234	125	81	96
26	366	1540	5560	51500	14800	11700	4970	651	229	123	80	148
27	393	1660	4250	46100	21400	14800	6400	575	225	121	78	265
28	232	5430	3400	17800	23400	9510	7240	485	220	119	76	113
29	770	21600	2820	13300	---	12100	5550	624	218	116	77	88
30	4280	17700	2450	10600	---	28800	4830	602	215	113	373	85
31	1200	---	2180	7720	---	29600	---	579	---	110	1190	---
TOTAL	8821	101337	316980	220882	360530	403070	123401	43153	11121	5207	4058	4769
MEAN	285	3378	10230	7125	12880	13000	4113	1392	371	168	131	159
MAX	4280	21600	46700	51500	34300	44500	14900	4200	600	390	1190	781
MIN	43	119	1490	744	3200	5140	833	485	215	110	55	85
AC-FT	17500	201000	628700	438100	715100	799500	244800	85590	22060	10330	8050	9460
CAL YR 1982	TOTAL	1137060	MEAN	3115	MAX	46700	MIN	41	AC-FT	2255000		
WTR YR 1983	TOTAL	1603329	MEAN	4393	MAX	51500	MIN	43	AC-FT	3180000		

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.

CHEMICAL ANALYSES: Water years 1952-81.

WATER TEMPERATURES: Water years 1961 to September 1983 (discontinued).

SEDIMENT RECORDS: Water years 1955-62, 1981.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1960 to September 1983 (discontinued).

SEDIMENT RECORDS: October 1980 to September 1981.

INSTRUMENTATION.--Temperature recorder since November 1960.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 34.0°C July 25, 1964; minimum recorded, 1.0°C Jan. 20, 21, 1963.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 28.0°C Aug. 14; minimum recorded, 7.0°C Dec. 9, Jan. 13, 14.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	15.5	12.5	12.0	10.0	9.5	7.5	7.5	10.5	10.5	10.5	10.0
2	18.0	15.5	12.5	11.5	9.5	9.5	8.0	7.5	10.5	10.5	10.5	10.5
3	17.5	16.0	12.5	11.5	10.0	9.5	9.0	8.0	10.5	10.5	11.0	10.5
4	16.5	14.5	12.0	11.0	11.0	10.0	9.5	9.0	10.5	10.5	11.5	11.0
5	18.0	15.5	13.0	11.5	12.0	11.0	10.0	9.5	10.5	10.5	11.5	10.5
6	16.5	14.5	12.5	11.0	12.0	11.5	10.0	9.5	10.5	10.5	11.5	10.5
7	16.0	14.0	11.0	10.0	11.5	9.5	10.5	10.0	10.5	10.5	11.0	10.5
8	16.0	13.5	11.0	10.0	9.5	8.5	10.5	9.5	10.5	10.5	12.0	11.0
9	17.0	14.5	10.5	9.5	8.5	7.0	9.5	8.5	10.5	10.5	12.5	11.5
10	17.0	15.0	10.5	9.5	7.5	7.5	8.5	8.0	10.5	10.0	12.5	12.5
11	17.5	15.0	10.5	9.5	8.0	7.5	8.0	7.5	11.0	10.5	12.5	11.5
12	18.0	15.5	10.5	9.5	7.5	7.5	8.0	7.5	10.5	10.5	12.0	11.0
13	17.5	15.5	10.5	9.5	7.5	7.5	8.0	7.0	10.5	10.5	11.5	11.0
14	17.5	15.5	10.0	9.0	8.5	7.5	7.5	7.0	10.5	10.5	11.0	10.5
15	17.0	15.5	9.5	8.5	8.5	8.5	7.5	7.5	10.5	10.5	10.5	10.0
16	16.5	15.0	9.5	9.0	8.5	8.5	9.0	7.5	10.5	10.5	10.0	9.5
17	15.5	14.5	10.5	9.5	---	---	9.5	8.5	11.0	10.5	9.5	9.0
18	15.0	13.5	10.5	10.5	10.0	10.0	10.0	9.5	11.0	10.5	10.0	9.5
19	15.0	14.5	10.5	10.5	10.5	10.0	9.5	9.0	10.5	10.0	10.5	10.0
20	15.5	14.5	10.5	10.0	10.5	10.0	9.0	8.0	10.5	10.5	10.5	10.5
21	15.5	15.5	10.0	10.0	10.0	10.0	8.5	8.0	10.5	10.5	10.5	10.5
22	16.0	15.5	10.0	10.0	10.5	10.0	9.5	8.5	11.5	10.5	10.5	10.5
23	17.0	16.0	10.5	10.0	10.5	9.5	10.0	9.5	11.5	11.5	10.5	10.5
24	18.0	16.5	10.0	10.0	9.5	9.0	10.0	10.0	11.5	11.0	10.5	9.0
25	17.0	16.0	10.0	10.0	9.0	9.0	10.5	10.0	11.0	10.0	10.5	9.0
26	16.0	14.0	10.0	10.0	9.5	9.0	10.5	10.5	10.5	10.0	10.0	9.5
27	14.0	13.5	10.5	10.0	10.0	9.5	10.5	10.5	10.5	10.5	10.0	9.5
28	13.5	13.0	10.5	10.5	10.0	9.5	10.5	10.5	10.5	10.0	10.0	10.0
29	13.0	13.0	10.5	10.5	9.5	8.5	10.5	10.0	---	---	10.5	10.0
30	13.0	12.5	10.5	10.0	8.5	7.5	10.0	10.0	---	---	11.0	10.5
31	13.0	12.0	---	---	7.5	7.5	10.5	10.0	---	---	11.5	11.0
MONTH	18.5	12.0	13.0	8.5	12.0	7.0	10.5	7.0	11.5	10.0	12.5	9.0

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	11.0	13.0	11.5	18.0	16.0	---	---	25.0	21.5	22.5	18.0
2	11.5	10.5	13.5	11.0	20.5	15.5	---	---	25.0	21.5	22.5	18.0
3	11.5	10.0	14.0	12.0	21.5	16.5	22.0	19.0	25.0	22.0	23.5	19.5
4	12.0	10.0	14.0	12.5	21.5	17.0	23.0	19.5	24.0	22.0	24.0	20.5
5	12.5	11.5	13.0	11.0	22.5	17.0	23.0	20.0	25.0	21.5	24.5	21.0
6	12.5	10.5	12.5	12.0	24.0	18.0	22.5	19.0	26.0	21.0	25.5	22.0
7	13.5	11.0	13.0	12.0	25.0	19.5	20.5	18.0	26.5	22.5	24.0	20.0
8	13.5	11.5	13.0	11.5	23.0	19.5	21.0	17.5	26.0	23.0	23.0	19.5
9	13.0	11.5	14.0	11.5	23.5	19.0	21.5	17.0	25.0	22.0	22.0	18.0
10	12.5	10.5	15.0	12.0	22.0	18.5	22.5	17.5	25.0	21.0	22.5	18.0
11	12.0	10.0	16.0	12.0	21.5	17.5	23.0	18.5	25.5	21.0	23.5	19.0
12	12.5	10.0	16.5	13.5	22.5	17.5	24.0	19.0	27.0	21.0	24.5	19.5
13	13.0	10.5	16.5	14.5	23.5	18.0	24.5	20.5	27.5	21.0	25.0	21.0
14	13.5	11.0	17.5	14.5	22.5	19.0	24.0	19.0	28.0	23.5	24.0	19.5
15	14.0	11.0	17.5	15.0	23.0	19.0	23.0	19.0	27.5	23.0	24.5	20.0
16	14.5	11.5	18.0	14.0	23.5	19.0	23.0	19.0	26.5	22.0	23.5	20.0
17	14.0	12.5	18.5	15.0	22.5	19.5	22.5	19.5	27.5	21.5	23.0	19.5
18	14.5	12.0	19.0	15.0	22.0	18.0	22.5	19.5	27.0	23.0	22.0	18.0
19	14.5	13.0	20.5	15.5	22.0	18.0	23.0	20.0	24.0	21.5	23.0	19.0
20	14.0	13.5	22.0	17.5	22.0	18.5	25.5	20.5	24.5	21.5	23.0	19.0
21	14.0	13.0	22.5	18.0	22.5	18.5	26.0	21.0	25.0	22.0	20.5	19.5
22	13.5	11.5	22.5	18.5	23.0	19.0	27.0	21.5	24.5	22.0	20.0	19.0
23	11.5	10.0	23.0	18.0	22.5	19.5	26.5	22.0	25.0	21.5	21.5	19.0
24	10.0	9.0	22.5	18.5	22.5	18.5	23.0	22.0	25.5	21.0	23.0	19.5
25	11.0	9.5	22.5	18.5	23.0	19.5	22.5	20.5	24.0	21.5	23.0	20.0
26	11.5	10.0	24.0	19.0	23.0	20.0	24.0	20.5	26.0	22.0	21.5	19.5
27	11.0	10.0	24.5	19.5	---	---	24.0	21.5	24.5	21.0	20.5	18.5
28	11.0	10.0	23.5	19.5	---	---	24.5	20.5	24.5	22.0	20.0	17.5
29	11.5	10.5	22.0	18.0	---	---	25.5	21.5	23.5	21.0	18.5	16.0
30	12.0	11.0	22.0	17.5	---	---	26.0	22.0	21.0	19.5	19.0	17.5
31	---	---	19.5	17.0	---	---	24.5	22.0	19.5	18.0	---	---
MONTH	14.5	9.0	24.5	11.0	25.0	15.5	27.0	17.0	28.0	18.0	25.5	16.0

EEL RIVER BASIN

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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 269.36 ft 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.--Records good. Minor diversions above station for domestic use.

AVERAGE DISCHARGE.--23 years, 131 ft³/s, 94,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft³/s Dec. 22, 1964, gage height, 20.6 ft, from floodmarks, site and datum then in use, from rating curve extended above 2,100 ft³/s on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft³/s Sept. 28, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16	1900	*5,880	12.00	Feb. 18	0315	2,390	8.55
Dec. 22	1500	2,260	8.38	Feb. 28	Unknown	1,780	Unknown
Jan. 26	Unknown	5,600	Unknown	Mar. 13	Unknown	2,210	Unknown

Minimum daily, 1.5 ft³/s several days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	17	550	123	495	1300	681	242	44	24	7.6	32
2	1.6	12	416	119	375	1080	539	219	41	19	7.6	20
3	1.5	8.9	344	109	310	865	436	201	38	15	7.5	16
4	1.5	6.9	323	99	236	650	326	183	35	14	7.2	13
5	1.5	5.6	263	92	215	505	272	197	31	13	7.2	13
6	2.1	4.7	222	85	280	395	230	187	27	13	7.1	11
7	3.3	4.4	182	80	463	430	199	176	26	13	6.8	9.9
8	2.3	5.8	147	75	609	450	174	170	26	12	6.8	8.4
9	2.0	4.1	122	69	1390	350	154	159	25	12	6.8	7.6
10	1.8	3.5	104	65	1790	420	137	146	27	11	6.8	7.6
11	1.7	3.0	85	61	1160	332	122	137	25	11	6.7	7.6
12	1.6	2.7	85	57	1910	742	109	128	23	11	6.3	7.6
13	1.6	2.6	78	57	1640	1800	100	120	22	11	5.9	7.5
14	1.6	2.4	81	55	1170	1300	93	112	22	10	5.4	7.2
15	1.5	2.3	747	57	1090	900	86	105	21	9.7	5.2	7.3
16	1.5	2.2	3160	58	971	635	80	99	20	9.3	5.2	7.1
17	1.5	176	2360	58	1030	583	76	92	19	9.5	5.2	6.8
18	1.5	723	1210	251	1770	463	71	87	18	9.5	5.1	6.9
19	1.5	350	630	998	1180	387	71	82	18	9.5	4.8	6.8
20	1.5	230	679	600	975	368	68	77	17	9.3	5.2	6.6
21	3.3	185	1370	398	815	356	64	71	17	9.0	5.2	6.4
22	65	234	1430	445	686	462	116	68	17	8.9	5.2	7.0
23	114	210	1200	453	622	519	371	65	16	8.5	5.2	8.1
24	26	166	832	1490	552	1130	384	62	16	8.5	5.2	8.2
25	41	140	609	1100	744	797	392	57	15	8.5	5.2	7.5
26	53	123	483	4500	739	735	328	55	15	8.4	5.2	7.1
27	32	128	366	4000	911	820	310	51	15	8.1	5.2	6.6
28	23	315	288	2300	1500	652	281	49	15	8.1	5.2	6.4
29	185	522	204	1500	---	721	260	47	15	8.0	8.1	6.4
30	84	634	166	950	---	1140	260	46	14	7.6	78	7.0
31	31	---	136	700	---	948	---	45	---	7.6	56	---
TOTAL	692.0	4224.1	18872	21004	25628	22235	6790	3535	680	337.0	310.1	280.6
MEAN	22.3	141	609	678	915	717	226	114	22.7	10.9	10.0	9.35
MAX	185	723	3160	4500	1910	1800	681	242	44	24	78	32
MIN	1.5	2.2	78	55	215	332	64	45	14	7.6	4.8	6.4
AC-FT	1370	8380	37430	41660	50830	44100	13470	7010	1350	668	615	557

CAL YR 1982	TOTAL	65502.8	MEAN	179	MAX	3160	MIN	1.3	AC-FT	129900
WTR YR 1983	TOTAL	104587.0	MEAN	287	MAX	4500	MIN	1.5	AC-FT	207400

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 mi².

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. Datum of gage is 35.50 ft National Geodetic Vertical Datum of 1929. Prior to Dec. 12, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow slightly regulated by Lake Pillsbury (station 11470000) 138 mi upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--73 years, 7,502 ft³/s, 5,435,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 752,000 ft³/s Dec. 23, 1964, gage height, 72.0 ft, from floodmarks, from rating curve extended above 220,000 ft³/s on basis of maximum flow at upstream stations; minimum observed, 10 ft³/s Aug. 12-14, 1924.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 72,000 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Nov. 18	2230	73,200	24.67	Feb. 19	1145	106,000	28.67
Dec. 1	0315	75,600	24.98	Mar. 1	1500	120,000	30.30
Dec. 17	0800	208,000	39.02	Mar. 13	1700	164,000	35.03
Dec. 22	0315	165,000	35.10	Mar. 25	0115	95,200	27.40
Jan. 27	0415	*296,000	46.03	Mar. 31	1000	111,000	29.30
Feb. 10	1145	139,000	32.41				

Minimum daily, 140 ft³/s Oct. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	3330	60000	8610	23100	106000	60600	20400	5270	1220	432	2760
2	157	1930	31800	7530	18000	85200	43800	16900	4720	1290	409	1560
3	147	1350	25100	6770	14400	67000	33500	14500	4270	1400	399	1060
4	142	1050	22300	6300	11500	48500	25000	13000	3900	1380	385	806
5	141	866	20200	5770	10300	36100	20000	12800	3800	1200	374	675
6	144	731	17600	5410	15400	29600	16600	14900	3590	1110	363	574
7	157	643	14400	5100	39100	32000	14400	12900	3480	1060	349	504
8	167	619	11000	4790	62100	34300	12900	11500	3390	1000	333	451
9	172	610	8840	4560	65800	28700	11900	10500	3260	941	324	415
10	169	640	7230	4270	119000	32000	11100	9470	3150	889	315	385
11	162	616	5890	3950	68000	29700	9880	8480	2990	845	304	365
12	158	573	5140	3680	65700	32600	8960	7910	2860	803	295	353
13	158	531	6680	3480	75600	128000	8160	7810	2550	778	287	343
14	162	492	6990	3290	58500	98000	7370	7590	2350	733	280	327
15	155	457	32500	3210	41600	56200	6770	7270	2250	709	272	319
16	151	439	89200	3300	42300	38500	6320	7450	2180	696	265	309
17	145	1280	172000	3420	33900	38700	6000	7370	2100	680	260	295
18	145	41500	71300	7220	70700	38300	5940	7020	2060	653	259	279
19	145	49100	37400	38100	79400	28800	6110	7190	1980	641	258	271
20	140	20200	28300	26500	46500	23100	6370	7820	1840	611	253	269
21	163	10500	79300	17000	32600	23600	6690	8060	1720	598	246	263
22	289	8390	127000	15100	26600	27000	6860	8200	1630	596	241	257
23	746	14100	104000	22700	22300	40100	20200	7980	1560	580	225	265
24	535	10500	56600	59600	24700	69500	33800	7730	1520	563	402	270
25	605	7240	35400	59500	31200	75100	32300	7450	1480	536	367	275
26	1050	5420	25400	133000	62300	44800	23600	7330	1400	519	322	268
27	1400	4560	19900	229000	67700	52000	22000	7150	1350	501	309	278
28	1640	8350	16300	90400	88700	42900	37000	7080	1320	487	298	433
29	1760	56800	13400	54300	---	36400	29200	6830	1300	477	291	343
30	10900	62700	11300	45600	---	64500	23800	6470	1230	457	745	281
31	9150	---	9810	31300	---	98300	---	5920	---	444	3230	---
TOTAL	31326	315517	1172280	912760	1317000	1585500	557130	292980	76500	24397	13092	15253
MEAN	1011	10520	37820	29440	47040	51150	18570	9451	2550	787	422	508
MAX	10900	62700	172000	229000	119000	128000	60600	20400	5270	1400	3230	2760
MIN	140	439	5140	3210	10300	23100	5940	5920	1230	444	225	257
AC-FT	62140	625800	2325000	1810000	2612000	3145000	1105000	581100	151700	48390	25970	30250
CAL YR 1982	TOTAL	4708633	MEAN	12900	MAX	175000	MIN	119	AC-FT	9340000		
WTR YR 1983	TOTAL	6313735	MEAN	17300	MAX	229000	MIN	140	AC-FT	12520000		

EEL RIVER BASIN

11477000 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 year 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 TEMPERATURE: October 1957 to June 1982.
 SEDIMENT RECORDS: October 1957 to September 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	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-HF (COLS./ 100 ML)	STREP- TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
NOV 03...	1330	1390	223	7.9	13.0	765	17	9.8	93	75	170
JAN 31...	1200	30800	120	8.0	12.0	755	340	10.9	102	K53	180
MAR 21...	1300	23500	127	7.5	11.5	755	170	9.5	88	150	150
MAY 17...	1100	7510	151	7.6	15.5	765	25	9.7	97	K8	22
JUL 12...	1210	811	220	8.1	21.0	760	1.0	8.2	92	K4	29
SEP 12...	1130	334	281	8.0	19.0	755	.90	9.2	100	K2	99

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS 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- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 03...	100	16	28	7.5	6.6	12	.3	1.1	85	21	5.6
JAN 31...	52	0	14	4.0	3.9	14	.2	.90	53	12	2.0
MAR 21...	62	3	17	4.8	4.3	13	.2	.70	59	7.8	2.1
MAY 17...	67	2	18	5.4	4.2	12	.2	.80	66	8.9	1.8
JUL 12...	110	8	30	7.6	6.0	11	.3	1.1	98	13	3.3
SEP 12...	130	15	37	9.9	8.1	12	.3	1.4	119	20	5.7

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)	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 03...	.10	9.6	133	130	.18	.37	<.06	.50	.07	.01	.02
JAN 31...	.10	11	83	80	.11	<.10	<.06	1.2	.40	.04	.01
MAR 21...	<.10	11	78	83	.11	<.10	--	.40	.27	.03	.03
MAY 17...	<.10	11	93	90	.13	<.10	<.06	.10	.06	.02	.01
JUL 12...	<.10	6.8	128	130	.17	.12	.03	.60	.02	.03	.02
SEP 12...	<.10	8.0	151	160	.21	<.10	.02	.70	.01	<.01	<.01

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

11477000 EEL RIVER AT SCOTIA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 03...	1330	10	1	64	<.5	<1	<1	<3	3	23	<1
JAN 31...	1200	40	1	29	<.5	<1	<1	<3	3	32	1
MAY 17...	1100	20	1	43	<.5	<1	<1	<3	1	4	1
SEP 12...	1130	<10	<1	83	<.5	<1	<1	<3	1	<3	2

DATE	TIME	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)	STROK- TIUM, DIS- SOLVED (UG/L AS SR)	VARA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 03...	14		8	<.1	<10	2	<1	<1	330	<6	12
JAN 31...	<4		6	<.1	<10	2	<1	<1	180	<6	10
MAY 17...	13		2	<.1	<10	1	<1	<1	230	<6	4
SEP 12...	<4		3	<.1	<10	3	<1	<1	400	<6	5

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREA- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (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 03...	1410	1290	13.5	18	63	--	--	--
JAN 31...	1200	30800	12.0	1060	88100	21	28	37
MAR 21...	1515	24000	10.5	463	30000	25	30	39
MAY 17...	1310	7330	16.0	135	2670	--	--	--
JUL 12...	1210	811	21.0	3	6.6	--	--	--
SEP 12...	1250	355	21.0	2	1.9	--	--	--

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 03...	--	--	98	--	--	--	--
JAN 31...	46	57	69	86	99	100	--
MAR 21...	47	55	63	73	88	99	100
MAY 17...	--	--	53	57	63	93	100
JUL 12...	--	--	71	--	--	--	--
SEP 12...	--	--	--	--	--	--	--

EEL RIVER BASIN

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 mi².

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 358.18 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1965, at site 2.4 mi upstream at different datum.

REMARKS.--Records good. No storage or large diversion above station.

AVERAGE DISCHARGE.--33 years, 903 ft³/s, 654,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft³/s Dec. 22, 1964, gage height, 24.0 ft, from floodmarks, present site and datum, from rating curve extended above 20,000 ft³/s on basis of slope-area measurement at gage height 21.3 ft, former site and datum; minimum daily, 4.6 ft³/s on many days during August and September 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16	2030	30,500	19.11	Jan. 26	1815	*30,800	19.21
Dec. 21	1415	19,200	14.97	Feb. 10	0345	15,800	13.52

Minimum daily, 12 ft³/s Oct. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	203	2660	812	1700	6070	4260	1630	400	94	36	639
2	13	148	2120	746	1500	4110	3760	1340	370	141	35	284
3	12	118	2820	777	1350	2770	2740	1190	336	118	34	181
4	12	102	3110	778	1250	1940	2060	1120	319	99	32	160
5	12	91	2050	746	1210	1720	1520	1370	298	90	31	113
6	14	82	1600	745	1810	1460	1290	1570	282	83	30	100
7	17	75	890	722	3810	2180	1160	1260	264	80	29	86
8	20	75	595	684	4820	1990	1080	1240	246	80	27	77
9	20	75	436	630	7310	1760	1030	1230	234	77	26	69
10	20	69	328	583	10900	3530	950	1020	228	73	26	64
11	19	64	251	542	5020	1900	874	889	233	68	26	60
12	18	60	242	511	6880	4790	785	823	205	65	25	56
13	16	57	576	489	6930	10900	713	788	188	62	24	53
14	15	54	376	465	4330	5610	679	753	175	59	22	49
15	15	50	6570	455	3660	3570	646	732	168	56	21	46
16	14	46	17700	474	3430	2690	622	701	159	55	20	44
17	13	949	12800	475	3500	2780	599	647	150	53	20	41
18	13	7590	4760	2940	9470	2230	606	635	144	52	19	39
19	13	2710	2980	4110	5180	1860	696	657	137	52	18	38
20	13	1130	3840	1810	3100	1670	773	659	131	53	18	36
21	14	741	11900	1280	2240	1850	827	680	125	53	20	34
22	39	856	7820	1780	2390	2340	855	667	120	50	23	37
23	118	771	5000	2270	1900	2410	3580	629	114	47	23	49
24	144	587	2780	6860	1990	5120	3140	635	109	45	23	54
25	98	453	1930	3530	3300	3500	2660	603	106	44	21	47
26	269	373	1650	19400	3700	2440	2040	567	102	44	19	42
27	282	379	1600	11800	5300	3090	2630	539	99	44	19	39
28	172	1850	1330	4400	5090	2150	2870	532	96	42	17	38
29	776	6080	1160	3190	---	3190	2080	510	93	40	20	37
30	1210	4670	1010	2450	---	9020	1820	483	90	38	510	36
31	319	---	915	2000	---	7360	---	437	---	36	1340	---
TOTAL	3743	30508	103799	78454	113070	108000	49345	26536	5721	1993	2554	2648
MEAN	121	1017	3348	2531	4038	3484	1645	856	191	64.3	82.4	88.3
MAX	1210	7590	17700	19400	10900	10900	4260	1630	400	141	1340	639
MIN	12	46	242	455	1210	1460	599	437	90	36	17	34
AC-FT	7420	60510	205900	155600	224300	214200	97880	52630	11350	3950	5070	5250
CAL YR 1982	TOTAL	396603.5	MEAN	1087	MAX	17700	MIN	9.6	AC-FT	786700		
WTR YR 1983	TOTAL	526371.0	MEAN	1442	MAX	19400	MIN	12	AC-FT	1044000		

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 mi².

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. Altitude of gage is 2,660 ft, from topographic map.

REMARKS.--Records fair except for discharges below 10 ft³/s, which are poor. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft³/s Dec. 19, 1981, gage height, 12.49 ft; no flow at times in every year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16	2200	6,800	10.10	Feb. 28	2345	3,060	7.25
Dec. 21	1615	4,600	8.64	Mar. 13	0445	3,720	7.83
Jan. 26	1600	*7,390	10.45	Mar. 30	2000	4,040	8.10
Feb. 10	0515	4,550	8.50				

Minimum, no flow several days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	8.2	633	235	673	2430	1480	618	107	24	5.2	6.1
2	0	5.7	484	216	555	1630	1230	507	101	29	5.6	4.8
3	0	6.0	582	214	469	1260	939	435	95	25	5.2	4.0
4	0	8.6	641	198	399	982	737	387	89	22	5.0	3.7
5	0	9.4	537	189	379	841	597	436	83	19	4.8	3.1
6	.17	10	424	182	644	724	489	439	77	17	4.5	3.1
7	.14	11	296	174	1280	863	426	421	73	17	4.2	3.1
8	.11	12	215	165	1640	772	376	378	69	16	3.7	3.1
9	.10	13	162	156	2080	692	338	337	63	15	3.4	2.8
10	.06	14	125	146	3260	787	302	298	63	13	3.1	2.6
11	.03	14	95	138	1630	651	275	265	64	13	3.0	3.1
12	.02	14	107	131	1870	1390	250	242	58	12	2.8	3.0
13	0	14	180	125	1710	2910	223	227	55	11	3.4	2.0
14	0	14	142	118	1260	1750	203	210	50	10	2.9	2.0
15	0	15	1290	118	1110	1290	186	197	47	10	2.5	2.2
16	0	16	3340	127	1040	1030	172	185	43	9.4	2.3	2.2
17	0	350	3220	133	941	930	163	174	40	8.9	2.1	2.2
18	0	1430	1240	480	1790	780	162	170	38	9.3	2.0	2.2
19	0	677	800	700	1380	638	162	165	36	10	1.8	2.2
20	0	403	872	464	969	533	165	159	34	11	2.2	2.2
21	.20	225	2800	399	749	541	171	158	32	10	2.6	2.2
22	.73	205	2290	605	704	655	183	155	31	9.7	2.6	2.3
23	2.7	219	1480	793	624	832	551	152	29	9.0	2.2	2.6
24	1.6	161	822	2110	667	1080	544	148	27	8.4	1.9	2.6
25	4.6	113	618	1130	1150	1000	605	145	25	7.7	1.9	2.2
26	12	83	510	4630	1320	877	613	140	24	7.5	1.9	2.2
27	11	112	458	3800	1680	995	897	136	23	6.9	1.8	2.2
28	10	512	394	1780	1940	886	1030	130	22	6.4	1.8	2.2
29	132	1460	341	1270	---	1220	850	125	21	6.3	1.8	2.2
30	198	1010	299	995	---	2870	727	117	19	6.0	4.4	2.2
31	22	---	265	815	---	2500	---	112	---	5.6	7.8	---
TOTAL	395.46	7144.9	25662	22736	33913	36339	15046	7818	1538	385.1	100.4	82.6
MEAN	12.8	238	828	733	1211	1172	502	252	51.3	12.4	3.24	2.75
MAX	198	1460	3340	4630	3260	2910	1480	618	107	29	7.8	6.1
MIN	0	5.7	95	118	379	533	162	112	19	5.6	1.8	2.0
AC-FT	784	14170	50900	45100	67270	72080	29840	15510	3050	764	199	164
CAL YR 1982	TOTAL	108540.63	MEAN	297	MAX	4250	MIN	0	AC-FT	215300		
WTR YR 1983	TOTAL	151160.46	MEAN	414	MAX	4630	MIN	0	AC-FT	299800		

MAD RIVER BASIN

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 mi².

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, 63,400 acre-ft Jan. 27; maximum elevation, 2,663.75 ft Jan. 27; minimum contents, 31,400 acre-ft Nov. 16; minimum elevation, 2,634.16 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 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39900	34200	52900	53000	54100	57200	56000	54000	52500	51600	49800	46600
2	39700	34100	53400	52900	53800	56300	55300	53800	52400	51600	49700	46500
3	39400	34000	53700	52900	53600	55500	54700	53600	52200	51600	49600	46400
4	39200	33800	53900	52800	53400	54900	54300	53400	52000	51600	49500	46200
5	39000	33600	53700	52800	53400	54600	54000	53500	51800	51500	49400	46100
6	38800	33400	53400	52700	54100	54400	53700	53600	51700	51400	49400	46000
7	38700	33300	53200	52700	55400	54600	53500	53500	51700	51400	49300	45800
8	38500	33000	53000	52600	56000	54500	53400	53400	51700	51300	49200	45700
9	38300	32800	52800	52600	57400	54400	53300	53300	51900	51300	49100	45500
10	38200	32600	52700	52500	58400	54500	53200	53200	52000	51300	49000	45400
11	37900	32500	52600	52500	56600	54300	53100	53100	52000	51200	48900	45300
12	37600	32200	52600	52500	56700	56900	53000	53000	52100	51200	48800	45100
13	37300	32000	52700	52500	56300	58000	52900	52900	52100	51100	48700	45000
14	37000	31800	52800	52500	55500	56500	52900	52900	52100	51000	48600	44800
15	36700	31600	55600	52500	55300	55500	52800	52800	52100	50900	48500	44700
16	36400	31400	60900	52500	55000	55000	52800	52800	52100	50900	48300	44500
17	36000	32600	58300	52600	55000	54800	52700	52800	52100	50800	48200	44300
18	35700	32700	56000	53900	56500	54400	52800	52700	52000	50800	48100	44200
19	35400	39100	54800	54300	55700	54100	52800	52700	52000	50700	48000	44000
20	35100	40000	55200	53900	55000	54000	52800	52600	52000	50700	47800	43800
21	34900	40500	58800	53700	54600	53900	52800	52600	52000	50600	47700	43600
22	34600	41000	58000	54300	54300	54100	52900	52700	52000	50600	47600	43500
23	34400	41500	56300	55100	54200	54500	53700	52700	52000	50500	47400	43300
24	34100	41800	55100	56700	54200	54900	53800	52600	52000	50400	47300	43100
25	33900	41900	54400	56200	55300	54800	53900	52600	51800	50300	47200	42900
26	33700	42100	54000	63300	55500	54700	53900	52600	51700	50300	47100	42700
27	33500	42500	53800	59300	56600	54800	54600	52600	51700	50200	46900	42500
28	33300	44200	53500	56700	57000	54600	54800	52600	51700	50100	46800	42200
29	33900	48400	53300	55500	---	55600	54500	52500	51600	50100	46700	42100
30	34400	51400	53200	54900	---	58500	54300	52500	51600	50000	46700	41800
31	34400	---	53100	54400	---	57300	---	52500	---	49800	46800	---
MAX	39900	51400	60900	63300	58400	58500	56000	54000	52500	51600	49800	46600
MIN	33300	31400	52600	52500	53400	53900	52700	52500	51600	49800	46700	41800
a	2637.20	2653.80	2655.18	2656.33	2658.62	2658.85	2656.22	2654.63	2653.88	2652.29	2649.45	2644.67
b	-5700	+17000	+1700	+1300	+2600	+300	-3000	-1800	-900	-1800	-3000	-5000

CAL YR 1982 b -2000

WTR YR 1983 b +1700

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 mi².

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,560 ft, from topographic map.

REMARKS.--Records good except discharges below 30 ft³/s, which are fair. Flow regulated by R. W. Matthews Dam, capacity, 51,800 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,600 ft³/s Dec. 19, 1981, gage height 14.13 ft; minimum daily, 7.5 ft³/s Nov. 14, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,400 ft³/s Jan. 27, gage height, 13.03 ft; minimum daily, 14 ft³/s June 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	93	193	402	984	3090	2390	864	155	57	43	67
2	97	93	490	359	835	2520	1760	743	178	41	42	67
3	96	93	691	331	723	1930	1330	642	218	45	42	67
4	94	93	864	312	632	1530	1070	574	265	45	44	67
5	97	93	842	292	579	1280	880	557	229	45	42	67
6	94	93	720	272	666	1110	737	604	175	45	42	66
7	75	93	583	253	1200	1190	635	578	89	45	42	68
8	83	94	470	235	1920	1170	554	534	73	39	42	65
9	42	93	386	219	2200	1070	498	494	14	46	44	68
10	111	93	320	199	4290	1140	453	458	27	46	55	68
11	135	93	264	183	2880	1070	409	405	40	46	54	68
12	141	93	236	172	2500	1450	369	384	51	45	53	68
13	148	93	294	161	2460	3650	337	352	61	47	53	68
14	149	93	299	149	1980	2870	313	311	64	48	54	76
15	149	93	1180	144	1610	1980	290	296	58	45	54	81
16	147	93	3620	149	1540	1460	271	279	57	45	54	81
17	147	94	5840	158	1410	1270	256	268	59	44	62	83
18	145	101	2920	376	2020	1100	243	257	73	37	60	83
19	145	99	1690	999	2130	930	246	273	64	45	76	83
20	145	99	1360	884	1610	801	248	249	44	45	79	89
21	145	99	3040	721	1260	762	251	199	40	46	64	94
22	145	99	3840	763	1120	775	262	209	39	47	56	107
23	145	99	3070	1090	997	921	507	211	38	47	76	95
24	145	99	1880	2430	989	1180	686	210	38	48	71	95
25	140	99	1280	2240	1210	1230	737	208	131	47	67	94
26	103	100	964	5320	1720	1130	756	206	92	47	69	95
27	92	102	804	7320	2060	1200	900	189	46	44	69	98
28	92	104	690	3220	2530	1130	1220	186	43	60	68	98
29	94	108	597	1980	---	1270	1150	180	42	44	68	97
30	95	107	519	1480	---	2710	997	168	38	43	69	90
31	94	---	459	1190	---	3670	---	160	---	43	68	---
TOTAL	3619	2898	40405	34003	46055	48589	20755	11248	2541	1417	1782	2413
MEAN	117	96.6	1303	1097	1645	1567	692	363	84.7	45.7	57.5	80.4
MAX	149	108	5840	7320	4290	3670	2390	864	265	60	79	107
MIN	42	93	193	144	579	762	243	160	14	37	42	65
AC-FT	7180	5750	80140	67440	91350	96380	41170	22310	5040	2810	3530	4790
CAL YR 1982	TOTAL	174961	MEAN	479	MAX	5840	MIN	26	AC-FT	347000		
WTR YR 1983	TOTAL	215725	MEAN	591	MAX	7320	MIN	14	AC-FT	427900		

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 mi².

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 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.--Records good. Flow regulated by Ruth Reservoir (station 11480400), 9 mi upstream, beginning in July 1961. No diversion above station.

AVERAGE DISCHARGE.--30 years, 392 ft³/s, 284,000 acre-ft/yr (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,200 ft³/s Dec. 22, 1955, gage height, 24.5 ft present datum, from floodmarks, from rating curve extended above 8,100 ft³/s on basis of slope-area measurement of maximum flow; minimum daily, 0.60 ft³/s Sept. 15, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,800 ft³/s Jan. 27, gage height, 13.23 ft; minimum daily, 36 ft³/s July 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	116	361	500	1220	4080	3080	1110	201	36	43	88
2	116	114	731	450	1010	3340	2300	941	221	64	42	78
3	112	114	850	420	855	2510	1770	801	270	49	41	75
4	118	114	1080	390	738	1940	1380	706	287	49	45	74
5	116	113	1050	359	672	1600	1120	727	258	49	43	72
6	104	111	973	344	837	1360	925	753	210	49	42	70
7	86	111	749	322	1530	1480	799	706	128	49	42	73
8	96	111	581	303	2350	1430	703	656	118	45	43	71
9	44	112	462	284	2880	1310	635	603	38	45	42	72
10	128	113	375	263	5530	1470	581	556	39	49	58	73
11	155	113	314	242	3780	1300	526	487	61	47	57	73
12	163	111	285	231	3350	2030	479	463	71	47	57	73
13	163	111	345	217	3230	4800	435	423	79	47	56	71
14	163	111	348	204	2540	3720	401	379	83	49	57	77
15	163	111	1730	196	2080	2570	371	362	81	45	57	84
16	163	112	5550	197	1960	1940	346	343	73	45	57	84
17	163	190	7500	202	1860	1710	328	327	77	45	64	86
18	162	584	3490	558	2770	1450	315	315	92	41	63	86
19	161	263	1980	1280	2740	1200	318	356	73	47	69	86
20	161	200	1660	1110	2050	1020	320	270	68	49	78	91
21	166	166	3720	884	1570	972	320	261	55	45	80	97
22	167	177	4350	966	1370	1030	351	267	50	46	45	116
23	174	171	3390	1490	1200	1230	791	264	50	46	79	106
24	164	153	2050	3110	1190	1620	946	261	47	47	73	102
25	157	144	1380	2810	1540	1680	1010	255	99	47	69	102
26	140	140	1050	7940	2180	1540	996	255	138	48	71	100
27	114	198	878	9760	2780	1650	1330	238	54	45	71	107
28	112	446	744	4410	3360	1520	1650	233	52	59	70	106
29	182	466	700	2590	---	1730	1530	224	50	45	72	104
30	154	337	635	1910	---	3450	1300	212	47	44	120	101
31	120	---	560	1500	---	4650	---	207	---	43	137	---
TOTAL	4297	5433	49871	45442	59172	63332	27356	13961	3170	1461	1943	2598
MEAN	139	181	1609	1466	2113	2043	912	450	106	47.1	62.7	86.6
MAX	182	584	7500	9760	5530	4800	3080	1110	287	64	137	116
MIN	44	111	285	196	672	972	315	207	38	36	41	70
AC-FT	8520	10780	98920	90130	117400	125600	54260	27690	6290	2900	3850	5150
CAL YR 1982	TOTAL	209285	MEAN	573	MAX	7500	MIN	31	AC-FT	415100		
WTR YR 1983	TOTAL	278036	MEAN	762	MAX	9760	MIN	36	AC-FT	551500		

11481000 MAD RIVER NEAR ARCATA, CA

LOCATION.--Lat 40°54'35", long 124°03'35", in 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 mi².

PERIOD OF RECORD.--October 1910 to September 1913, August 1950 to current year. Monthly discharge only for some periods published in WSP 1315-B.

REVISED RECORDS.--WDR CA-72-1: 1965(M).

GAGE.--Water-stage recorder. Datum of gage is 12.79 ft 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.--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).--36 years, 1,527 ft³/s, 1,106,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,000 ft³/s Dec. 22, 1964, gage height, 30.7 ft present datum, from high-water profile; minimum daily, 0.10 ft³/s Aug. 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34,800 ft³/s Dec. 16, gage height 19.32 ft; minimum daily, 18 ft³/s Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	325	6160	1050	4110	9650	10600	3020	495	301	42	913
2	38	247	3990	969	3310	8320	8630	2480	514	486	39	516
3	38	205	5130	980	2780	6370	6970	2120	512	294	39	300
4	43	169	6670	926	2230	5190	5330	1850	501	204	39	166
5	44	149	6130	887	1930	4440	4500	1840	520	154	37	110
6	55	140	6040	880	2230	3730	3630	2580	479	139	37	96
7	74	129	3350	855	6060	3490	3000	2390	446	130	38	83
8	63	131	1940	793	7470	3340	2620	2480	331	133	38	68
9	46	122	1330	727	9080	3070	2260	2640	285	126	36	98
10	44	119	1010	672	18300	5090	2060	2110	265	113	35	70
11	41	112	819	619	11300	4020	1830	1770	236	108	34	68
12	18	103	850	575	9560	4080	1610	1540	209	109	36	67
13	56	98	1680	539	11000	12500	1440	1400	183	103	38	65
14	77	99	1240	522	8270	10800	1290	1280	207	95	40	64
15	89	96	6080	532	6590	7740	1150	1170	225	87	37	63
16	94	100	20000	543	6120	5560	1040	1090	215	82	32	62
17	94	1620	21400	535	4950	4810	1010	1010	195	75	34	63
18	94	7980	10900	1360	10300	3970	992	974	185	73	37	63
19	100	4290	7000	5540	9380	3050	1190	929	175	70	41	61
20	108	2570	5950	3930	6570	2460	1140	885	178	71	48	59
21	107	1330	11800	2360	5440	2670	1200	848	164	67	51	56
22	118	1050	13800	1900	6090	3330	1210	776	143	65	64	63
23	251	854	12100	2640	4610	5120	5790	750	135	62	52	83
24	220	642	7110	7980	4640	10600	5300	733	131	61	40	89
25	162	516	4550	6670	6390	8360	5240	743	134	61	41	76
26	355	442	3470	19900	7800	5710	4320	791	130	55	45	74
27	315	422	2920	24400	6500	5770	4080	765	220	50	45	73
28	187	1340	2250	13600	7900	5070	4890	708	145	47	45	73
29	1330	7480	1760	8720	---	5800	4340	715	129	46	50	75
30	2420	6500	1430	6260	---	16200	3640	642	122	51	637	74
31	529	---	1210	5010	---	16100	---	589	---	46	1980	---
TOTAL	7255	39380	180069	122874	190910	196410	102302	43618	7809	3564	3807	3791
MEAN	234	1313	5809	3964	6818	6336	3410	1407	260	115	123	126
MAX	2420	7980	21400	24400	18300	16200	10600	3020	520	486	1980	913
MIN	18	96	819	522	1930	2460	992	589	122	46	32	56
AC-FT	14390	78110	357200	243700	378700	389600	202900	86520	15490	7070	7550	7520
a	4600	4520	3740	3350	3830	4290	4210	4630	4500	3540	4670	4910

CAL YR 1982 TOTAL 732964.9 MEAN 2008 MAX 21400 MIN 9.3 AC-FT 1454000
WTR YR 1983 TOTAL 901789.0 MEAN 2471 MAX 24400 MIN 18 AC-FT 1789000

a Diversion, in acre-feet, for municipal supply and industrial use; furnished by Humboldt Municipal Water District.

LITTLE RIVER BASIN

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 mi².

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 National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--28 years, 146 ft³/s, 105,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft³/s Mar. 18, 1975, gage height, 14.19 ft, from rating curve extended above 3,100 ft³/s on basis of slope-area measurement at gage height 14.08 ft; minimum daily, 2.8 ft³/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 above base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Dec. 16	2015	*7,510	11.38	Feb. 10	0100	4,470	8.57
Dec. 22	1715	3,030	6.95	Mar. 30	1545	4,440	8.54

Minimum daily, 4.1 ft³/s Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	39	435	112	215	373	870	153	40	187	14	56
2	5.1	28	370	100	179	303	800	130	37	141	14	34
3	5.0	22	380	107	149	254	619	114	39	57	14	25
4	4.8	19	509	93	126	259	438	105	37	42	14	22
5	4.9	17	513	85	112	238	346	116	34	35	14	20
6	18	15	644	78	410	208	282	279	33	32	13	18
7	24	14	354	81	679	196	236	260	33	29	13	17
8	10	13	249	77	532	175	200	359	30	26	13	16
9	6.9	12	196	72	1270	298	172	306	30	25	13	16
10	5.3	11	164	67	2210	706	154	225	36	23	13	15
11	5.0	11	134	64	748	352	129	175	36	22	13	14
12	4.4	10	169	60	607	322	109	143	31	22	12	14
13	4.5	9.4	313	57	1140	837	94	124	29	20	15	13
14	4.2	9.0	217	54	696	548	84	110	28	19	11	13
15	4.1	8.6	780	55	517	382	76	98	26	19	11	13
16	4.3	8.4	4220	57	414	297	70	88	25	19	11	13
17	4.4	70	2090	55	528	247	68	81	25	19	9.5	13
18	4.4	910	955	164	1550	206	65	76	26	19	10	13
19	4.6	620	774	529	768	167	93	71	24	19	9.5	13
20	4.3	380	1010	339	518	166	73	66	24	18	9.5	12
21	6.4	240	1310	206	632	210	70	61	24	17	9.7	12
22	13	150	1490	151	690	376	122	58	23	17	12	12
23	48	132	1280	123	490	567	797	55	23	17	12	20
24	20	117	800	316	506	1630	572	55	22	17	11	16
25	35	106	530	289	1050	841	695	52	23	18	10	14
26	121	100	400	1570	747	496	385	49	22	17	9.6	13
27	44	118	310	1600	498	539	307	47	22	17	9.6	13
28	23	300	225	655	392	421	296	44	22	16	12	13
29	428	870	170	428	---	1040	237	43	22	15	60	11
30	201	540	145	327	---	3600	187	44	22	16	220	10
31	65	---	128	260	---	1590	---	44	---	14	110	---
TOTAL	1138.1	4899.4	21264	8231	18373	17844	8651	3631	848	974	722.4	504
MEAN	36.7	163	686	266	656	576	288	117	28.3	31.4	23.3	16.8
MAX	428	910	4220	1600	2210	3600	870	359	40	187	220	56
MIN	4.1	8.4	128	54	112	166	65	43	22	14	9.5	10
AC-FT	2260	9720	42180	16330	36440	35390	17160	7200	1680	1930	1430	1000
CAL YR 1982	TOTAL	72989.5	MEAN	200	MAX	4220	MIN	4.1	AC-FT	144800		
WTR YR 1983	TOTAL	87079.9	MEAN	239	MAX	4220	MIN	4.1	AC-FT	172700		

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 mi².

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. Altitude of gage is 850 ft, from topographic map.

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

AVERAGE DISCHARGE.--16 years, 265 ft³/s, 192,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s Mar. 18, 1975, gage height, 13.70 ft, from rating curve extended above 6,400 ft³/s; minimum daily, 2.6 ft³/s Aug. 24, Sept. 11-15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 18	0615	3,510	7.92	Feb. 10	0345	5,150	9.10
Nov. 28	2245	4,290	8.52	Feb. 18	0445	2,410	6.37
Dec. 16	2015	6,650	10.24	Mar. 13	0515	2,160	6.07
Dec. 21	1400	3,760	8.12	Mar. 24	2000	1,920	5.76
Jan. 26	1415	*6,750	10.31	Mar. 30	1700	3,100	7.13

Minimum daily, 5.2 ft³/s Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	89	793	273	491	1220	1420	334	110	87	19	106
2	6.6	62	933	264	423	985	1340	303	103	87	19	62
3	5.8	46	1140	289	357	814	1030	287	98	56	18	49
4	5.5	37	1350	255	307	712	849	279	87	46	19	42
5	5.2	29	1180	249	275	629	681	306	81	42	19	36
6	13	27	1090	251	503	543	573	347	76	42	18	30
7	23	24	723	244	837	545	507	316	72	42	16	26
8	13	25	557	229	767	491	453	398	68	53	16	25
9	11	22	439	210	1370	486	424	386	65	43	16	24
10	9.7	22	376	195	2930	840	382	350	76	39	16	23
11	8.7	19	329	179	1410	539	345	319	77	36	15	22
12	8.3	19	359	156	1880	825	311	306	68	32	15	21
13	7.3	17	454	150	1930	1780	286	293	64	31	13	19
14	6.4	16	367	151	1240	1230	270	281	59	30	13	18
15	6.0	16	1260	156	1190	915	263	277	60	29	12	17
16	5.8	18	3360	153	1000	743	262	265	58	28	12	16
17	5.7	647	2080	151	885	662	262	250	55	29	11	15
18	5.7	1980	912	428	1860	565	263	244	55	29	10	15
19	5.6	881	739	609	1240	496	274	242	55	30	11	16
20	5.9	674	814	387	925	463	281	230	54	30	15	14
21	7.4	451	2110	324	955	465	302	222	53	28	14	15
22	15	350	1530	356	1040	642	303	208	49	26	13	18
23	115	308	1090	494	804	707	668	193	47	25	13	30
24	36	274	753	1170	728	1640	528	183	46	26	12	20
25	25	239	596	659	971	1230	498	166	43	27	11	17
26	151	219	570	4330	902	890	438	147	40	27	12	14
27	67	241	525	2660	1150	887	499	141	39	25	11	14
28	35	802	441	1450	1060	695	457	130	39	24	10	14
29	590	1650	385	973	---	1130	394	120	37	23	19	14
30	339	1080	339	750	---	2470	366	118	34	20	229	14
31	148	---	305	596	---	2080	---	114	---	19	203	---
TOTAL	1694.9	10284	27899	18741	29430	28319	14929	7755	1868	1111	850	766
MEAN	54.7	343	900	605	1051	914	498	250	62.3	35.8	27.4	25.5
MAX	590	1980	3360	4330	2930	2470	1420	398	110	87	229	106
MIN	5.2	16	305	150	275	463	262	114	34	19	10	14
AC-FT	3360	20400	55340	37170	58370	56170	29610	15380	3710	2200	1690	1520

CAL YR 1982	TOTAL	119736.9	MEAN	328	MAX	3360	MIN	3.9	AC-FT	237500
WTR YR 1983	TOTAL	143646.9	MEAN	395	MAX	4330	MIN	5.2	AC-FT	284900

REDWOOD CREEK BASIN

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 1980.

SEDIMENT RECORDS: October 1972 to September 1981, October 1981 to September 1983 (storm season only).

INSTRUMENTATION.--Temperature recorder October 1972 to September 1980.

REMARKS.--zero bedload discharge observed at flows less than 149 ft³/s.

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, Oct. 5-8, 1980, and many days in 1983.

SEDIMENT DISCHARGE: Maximum daily, 276,000 tons Mar. 18, 1975; minimum daily, 0 ton on several days in 1976, Oct. 5-8, 1980, and many days in 1983.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 5,020 mg/L Jan. 26; minimum daily mean, 0 mg/L many days.

SEDIMENT DISCHARGE: Maximum daily, 71,200 tons Jan. 26; minimum daily, 0 ton on many days.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.5	10.0	5.0	---	---	9.0	9.0					
2	---	---	---	---	---	8.0	9.0					
3	14.5	10.0	6.0	---	6.0	9.0	9.0					
4	---	---	6.0	---	---	9.0	8.5					
5	15.0	11.0	8.0	---	6.5	9.0	10.0					
6	11.5	---	7.0	---	---	9.0	10.0					
7	12.0	9.0	7.0	---	7.0	8.0	11.0					
8	---	---	6.0	---	---	10.5	11.0					
9	13.5	7.0	6.0	---	7.0	10.0	8.0					
10	---	---	7.0	---	8.0	10.0	8.5					
11	14.0	7.5	7.0	---	9.0	9.0	9.0					
12	---	---	7.0	---	8.0	9.0	9.0					
13	13.5	5.0	7.0	---	8.0	8.0	10.0					
14	---	---	8.0	---	8.0	8.0	10.0					
15	14.0	6.0	9.0	---	8.0	9.0	8.0					
16	---	---	9.0	---	8.0	8.0	10.0					
17	15.5	9.0	8.0	6.5	10.0	8.0	11.0					
18	---	10.0	8.0	---	8.0	10.0	11.0					
19	14.0	9.0	9.0	---	9.0	9.0	11.0					
20	---	8.0	---	---	9.0	9.0	11.0					
21	14.0	8.0	---	---	9.0	9.0	11.0					
22	---	9.0	---	---	9.0	7.5	9.0					
23	14.5	9.0	---	---	9.0	8.0	7.0					
24	---	8.0	---	---	8.0	7.0	8.0					
25	15.0	8.5	---	---	7.0	7.5	---					
26	11.5	7.0	---	8.0	7.0	7.0	10.0					
27	12.0	10.0	---	8.0	8.0	8.0	8.0					
28	11.0	9.0	---	---	8.5	8.0	8.0					
29	12.0	8.0	---	---	---	9.0	10.0					
30	12.0	7.0	---	7.0	---	9.0	10.0					
31	---	---	---	8.0	---	7.0	---					
MONTH	---	---	---	---	---	8.5	---					

REDWOOD CREEK BASIN

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11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1982 TO APRIL 1983

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8.3	1	.02	89	3	.72	793	110	236
2	6.6	2	.04	62	2	.33	933	393	1180
3	5.8	2	.03	46	1	.12	1140	910	2800
4	5.5	2	.03	37	1	.10	1350	725	2690
5	5.2	2	.03	29	0	0	1180	364	1180
6	13	4	.14	27	0	0	1090	220	647
7	23	2	.12	24	0	0	723	95	185
8	13	1	.04	25	0	0	557	52	78
9	11	1	.03	22	0	0	439	18	21
10	9.7	1	.03	22	0	0	376	14	14
11	8.7	7	.16	19	0	0	329	16	14
12	8.3	2	.04	19	1	.05	359	20	19
13	7.3	2	.04	17	1	.05	454	19	23
14	6.4	1	.02	16	1	.04	367	12	12
15	6.0	1	.02	16	1	.04	1260	1010	3750
16	5.8	1	.02	18	2	.10	3360	2480	29000
17	5.7	0	0	647	535	1210	2080	1440	8090
18	5.7	0	0	1980	1580	10000	912	580	1430
19	5.6	0	0	881	320	761	739	450	898
20	5.9	2	.03	674	103	187	814	635	1690
21	7.4	34	.68	451	44	54	2110	1880	13600
22	15	26	1.1	350	24	23	1530	1100	4630
23	115	82	27	308	15	12	1090	---	1400
24	36	30	2.9	274	13	9.6	753	---	400
25	25	28	1.9	239	9	5.8	596	---	190
26	151	86	38	219	7	4.1	570	---	170
27	67	13	2.4	241	13	8.5	525	---	120
28	35	2	.19	802	627	4650	441	---	65
29	590	553	1410	1650	1140	6400	385	---	40
30	339	140	128	1080	409	1240	339	---	30
31	148	10	4.0	---	---	---	305	---	20
TOTAL	1694.9	---	1617.01	10284	---	24566.55	27899	---	74622

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	273	21	15	491	270	358	1220	875	2880
2	264	20	14	423	180	206	985	420	1120
3	289	23	18	357	105	101	814	285	626
4	255	18	12	307	80	66	712	195	375
5	249	18	12	275	68	50	629	110	187
6	251	18	12	503	221	510	543	75	110
7	244	17	11	837	370	808	545	100	147
8	229	15	9.3	767	282	589	491	70	93
9	210	13	7.4	1370	1710	8140	486	131	205
10	195	11	5.8	2930	2920	26200	840	393	938
11	179	10	4.8	1410	1280	4870	539	92	134
12	156	8	3.4	1880	2200	11400	825	652	2060
13	150	7	2.8	1930	1780	9280	1780	1190	5880
14	151	7	2.9	1240	800	2680	1230	500	1660
15	156	8	3.4	1190	975	3270	915	275	679
16	153	8	3.3	1000	690	1860	743	140	281
17	151	7	2.9	885	500	1190	662	105	188
18	428	---	100	1860	1910	10100	565	68	104
19	609	---	250	1240	675	2260	496	47	63
20	387	---	40	925	315	787	463	44	55
21	324	---	25	955	668	2140	465	45	56
22	356	---	35	1040	630	1770	642	294	574
23	494	---	150	804	300	651	707	160	305
24	1170	---	1800	728	247	486	1640	1160	5240
25	659	---	490	971	908	2810	1230	450	1490
26	4330	5020	71200	902	790	1920	890	220	529
27	2660	3220	23100	1150	927	2870	887	240	575
28	1450	1450	5680	1060	755	2450	685	130	244
29	973	1020	2680	---	---	---	1130	985	4470
30	750	610	1240	---	---	---	2470	2670	18400
31	596	390	628	---	---	---	2080	1320	7760
TOTAL	18741	---	107558.0	29430	---	99902	28319	---	57428

REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1982 TO APRIL 1983

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1420	726	2900						
2	1340	580	2100						
3	1030	280	779						
4	849	163	374						
5	681	105	193						
6	573	69	107						
7	507	52	71						
8	453	46	56						
9	424	34	39						
10	382	30	31						
11	345	20	19						
12	311	16	13						
13	286	17	13						
14	270	11	8.0						
15	263	12	8.5						
16	262	18	13						
17	262	15	11						
18	263	14	9.9						
19	274	20	15						
20	281	23	17						
21	302	21	17						
22	303	51	53						
23	668	371	656						
24	528	115	164						
25	498	53	71						
26	438	48	57						
27	499	175	258						
28	457	84	104						
29	394	46	49						
30	366	40	40						
31	---	---	---						
TOTAL	14929	---	8246.4						
PERIOD	131296.9		373939						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, OCTOBER 1982 TO APRIL 1983

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1982	1694.90	1617.01	292	1910
NOVEMBER ...	10284.00	24566.55	6210	30800
DECEMBER ...	27899.00	74622.00	19400	94000
JANUARY 1983	18741.00	107558.00	10900	118000
FEBRUARY ...	29430.00	99902.00	22600	122000
MARCH	28319.00	57428.00	19700	77200
APRIL	14929.00	8246.40	6190	14400
PERIOD	131296.90	373939.96	85292	458310

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SED- IMENT, 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								
29...	1800	1310	12.0	1220	4320	--	29	35
NOV								
30...	1405	1180	--	464	1480	20	27	36
DEC								
16...	1340	2080	8.0	1550	12100	--	--	--
16...	1445	3210	--	1980	17200	--	17	25
JAN								
26...	1310	6470	8.0	7150	125000	--	21	29
27...	1005	2720	7.5	3290	24200	--	23	26
FEB								
28...	1345	968	8.5	497	1300	18	26	34
MAR								
13...	1130	1960	8.0	1470	7780	--	29	33
31...	0900	2280	7.0	1270	7820	--	22	28
APR								
04...	1240	845	8.5	158	360	--	--	--

DATE	TIME	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									
29...	50	63	71	79	88	96	99	100	
NOV									
30...	45	52	58	66	78	91	99	100	
DEC									
16...	--	--	57	68	80	91	96	99	
16...	35	45	54	66	81	93	98	99	
JAN									
26...	40	51	59	72	84	93	98	100	
27...	37	46	54	65	78	91	97	99	
FEB									
28...	43	52	58	67	73	83	94	100	
MAR									
13...	44	53	62	69	82	94	99	100	
31...	37	45	54	63	76	90	98	100	
APR									
04...	--	--	64	70	81	89	98	100	

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	TEMPER- ATURE (DEG C)	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
FEB							
28...	1400	8.5	971	--	--	2	7
AUG							
24...	1325	25.0	12	1	4	8	10

DATE	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						
28...	18	36	61	82	98	100
AUG						
24...	12	14	19	29	57	100

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
NOV 30...	1330	--	17	1200	75.0	911	--	2
DEC 16...	1055	8.0	10	2790	99.0	2090	1	7
16...	1400	8.0	10	2970	99.0	1220	--	--
JAN 17...	1115	6.5	--	149	51.0	--	--	--
27...	1040	8.0	10	2690	96.0	569	1	9
27...	1315	8.0	20	2410	96.0	2240	--	--
FEB 28...	1425	8.5	10	997	73.0	2980	--	--
APR 26...	1355	9.0	16	424	--	36	--	--

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	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
NOV 30...	11	28	48	69	84	97	100	--
DEC 16...	26	44	52	58	63	70	85	100
16...	--	--	--	--	--	--	--	--
JAN 17...	--	--	--	--	--	--	--	--
27...	26	38	47	53	61	74	100	--
27...	--	--	--	--	--	--	--	--
FEB 28...	--	--	--	--	--	--	--	--
APR 26...	--	--	--	--	--	--	--	--

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 480 ft, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,300 ft³/s Dec. 16, 1982, gage height, unknown; maximum gage height known, 25.91 ft Mar. 30, 1983; minimum daily, 0.38 ft³/s Oct. 10, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16	1745	*2,180	26.82
Mar. 30	0615	1,230	25.91

Minimum daily, 0.97 ft³/s Oct. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	19	368	58	106	175	393	55	14	34	3.1	26
2	1.1	14	344	51	90	137	323	49	13	23	3.0	15
3	.98	11	408	68	77	111	256	45	12	13	2.8	10
4	.97	8.9	441	58	70	105	177	42	12	9.9	2.7	8.1
5	.97	7.5	363	52	63	95	129	45	11	8.5	2.8	6.7
6	3.3	7.1	326	49	120	88	103	84	10	7.5	2.6	5.7
7	5.0	5.8	246	44	220	95	82	68	9.6	7.2	2.5	5.1
8	2.9	6.2	180	41	205	85	69	105	9.1	7.1	2.4	4.7
9	2.2	5.8	133	35	390	100	62	102	8.9	6.4	2.1	4.3
10	1.7	5.3	103	31	770	162	56	85	11	6.0	2.1	3.7
11	1.6	4.6	86	29	408	115	49	71	10	5.8	2.1	3.5
12	1.4	4.2	95	27	333	186	44	61	8.9	5.5	2.1	3.4
13	1.3	4.0	150	25	482	529	40	54	8.2	5.1	1.9	3.1
14	1.2	3.9	128	22	293	358	35	48	7.9	4.9	1.7	2.9
15	1.2	3.8	707	24	294	263	33	43	7.9	4.7	1.4	2.8
16	1.1	4.1	1700	24	230	169	30	39	7.3	4.6	1.4	2.5
17	1.1	203	870	23	310	124	28	34	7.3	4.6	1.4	2.4
18	1.1	575	239	85	440	102	27	31	7.3	4.7	1.3	2.3
19	1.1	482	305	229	350	82	30	29	6.8	5.3	1.1	2.2
20	1.2	260	419	147	290	73	28	26	6.5	4.8	1.5	2.0
21	2.1	180	770	114	390	75	27	24	6.5	4.3	1.6	1.7
22	3.0	124	629	111	325	256	39	22	6.2	4.1	1.6	2.1
23	13	95	482	116	285	335	189	21	6.0	3.9	1.6	5.5
24	5.5	75	330	256	250	562	167	20	5.9	3.9	1.6	3.9
25	10	61	201	207	430	508	189	18	5.7	4.1	1.4	3.0
26	27	51	164	590	320	305	131	17	5.3	4.2	1.4	2.6
27	10	77	137	707	250	344	106	16	5.8	3.8	1.3	2.4
28	6.0	266	116	398	160	246	89	15	5.6	3.5	1.1	2.3
29	253	606	95	263	---	508	74	14	5.7	3.4	4.9	2.3
30	93	383	79	177	---	1110	63	14	5.6	3.2	61	2.3
31	34	---	69	133	---	697	---	15	---	3.1	43	---
TOTAL	489.32	3553.2	10683	4194	7951	8100	3068	1312	247.0	214.1	162.5	144.5
MEAN	15.8	118	345	135	284	261	102	42.3	8.23	6.91	5.24	4.82
MAX	253	606	1700	707	770	1110	393	105	14	34	61	26
MIN	.97	3.8	69	22	63	73	27	14	5.3	3.1	1.1	1.7
AC-FT	971	7050	21190	8320	15770	16070	6090	2600	490	425	322	287

CAL YR 1982 TOTAL 34982.47 MEAN 95.8 MAX 1700 MIN .97 AC-FT 69390
WTR YR 1983 TOTAL 40118.62 MEAN 110 MAX 1700 MIN .97 AC-FT 79580

NOTE.--No gage height record Dec. 15-18.

REDWOOD CREEK BASIN
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.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

		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
DATE	TIME							
NOV								
09...	1130	5.8	7.5	1	.02	--	--	--
DEC								
06...	1335	330	10.5	40	36	--	--	--
21...	1220	776	9.0	715	1500	19	24	32
JAN								
17...	1355	22	8.5	11	.66	--	--	--
26...	1205	590	8.5	516	822	21	28	35
26...	1315	688	8.5	1040	1930	15	20	27
MAR								
02...	1240	137	10.0	21	7.8	--	--	--
29...	1340	452	9.5	325	397	42	49	56
		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
DATE								
NOV								
09...	--	--	--	--	--	--	--	--
DEC								
06...	--	--	67	--	--	--	--	--
21...	40	47	54	59	67	78	90	98
JAN								
17...	--	--	--	--	--	--	--	--
26...	43	52	58	65	74	84	96	98
26...	35	44	51	56	64	73	81	88
MAR								
02...	--	--	86	--	--	--	--	--
29...	63	70	73	80	86	94	99	100

11482110 LACKS CREEK NEAR ORICK, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
NOV								
09...	1130	7.5	--	5.8	12.2	.00	--	--
DEC								
06...	1230	10.5	13	326	45.0	10	--	--
21...	1040	9.0	9	757	50.0	1330	--	--
21...	1245	9.0	9	802	50.0	3810	--	1
JAN								
17...	1355	8.5	0	22	21.6	.00	--	--
26...	1240	8.5	13	635	47.0	335	--	1
26...	1345	8.5	13	751	47.0	227	--	--
MAR								
29...	1425	--	13	513	47.0	51	1	5
29...	1450	--	13	548	47.0	16	--	--

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	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
NOV								
09...	--	--	--	--	--	--	--	--
DEC								
06...	--	--	--	--	--	--	--	--
21...	--	--	27	45	62	77	96	100
21...	2	6	10	18	32	58	89	100
JAN								
17...	--	--	--	--	--	--	--	--
26...	8	21	37	55	74	92	100	--
26...	--	--	--	--	--	--	--	--
MAR								
29...	21	38	53	68	82	91	100	--
29...	--	--	--	--	--	--	--	--

REDWOOD CREEK BASIN

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 490 ft, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s Dec. 16, 1982, gage height, 16.08 ft; minimum daily, 6.2 ft³/s Sept. 14, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 29	0130	6,340	10.44	Jan. 26	2015	11,700	13.74
Dec. 16	2100	*16,500	16.08	Feb. 10	0445	13,600	14.71
Dec. 21	1715	7,070	10.95	Mar. 30	Unknown	7,570	11.28

Minimum daily, 8.2 ft³/s Oct. 17-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	260	2650	692	1090	2260	2900	461	250	192	43	186
2	11	175	2680	655	882	1740	2600	427	241	208	43	125
3	11	130	3040	698	750	1440	2200	406	229	137	42	96
4	11	110	3220	641	672	1290	1780	394	219	111	40	78
5	11	80	2740	614	615	1080	1470	407	206	102	36	66
6	19	66	2660	597	945	905	1070	553	196	87	37	58
7	65	60	1860	577	1820	882	856	489	187	89	37	52
8	29	58	1360	556	1660	788	738	616	174	95	35	49
9	19	57	1070	531	3120	783	658	641	173	92	33	46
10	14	51	861	503	8130	1350	581	552	175	69	33	43
11	12	48	718	480	3340	892	508	501	184	74	33	42
12	11	44	752	462	3450	1110	456	469	170	73	32	40
13	9.8	42	1040	445	4190	3320	414	445	159	69	31	38
14	9.1	40	810	427	2880	2550	381	429	151	63	28	35
15	8.7	39	2680	425	2630	1890	355	416	147	62	26	34
16	8.4	38	8360	444	2260	1520	335	405	142	62	25	33
17	8.2	918	6520	427	1850	1320	324	390	135	61	24	31
18	8.2	3440	3060	736	3670	1080	320	380	133	61	23	31
19	8.2	2110	2740	1690	2670	885	337	375	130	61	21	29
20	8.4	1390	2940	1150	2000	792	331	370	125	61	22	28
21	13	833	4770	902	2170	800	339	362	119	60	26	27
22	54	590	4210	894	2710	1280	348	351	115	57	27	27
23	210	461	3420	942	1990	1950	963	342	111	54	27	48
24	95	384	2370	2370	1860	4070	867	331	107	52	25	46
25	48	331	1860	1600	2890	3350	920	319	102	52	24	37
26	290	296	1660	6660	2610	2060	738	300	96	52	23	34
27	150	321	1490	5750	2600	1500	692	286	95	52	22	32
28	89	1060	1230	2960	2110	1200	666	275	94	50	22	30
29	1140	4080	1030	2100	---	2700	563	264	92	49	34	30
30	610	2950	864	1640	---	5100	500	260	85	46	259	29
31	610	---	761	1360	---	3950	---	257	---	43	300	---
TOTAL	3602.0	20462	75426	39928	67564	55837	25210	12473	4542	2396	1433	1480
MEAN	116	682	2433	1288	2413	1801	840	402	151	77.3	46.2	49.3
MAX	1140	4080	8360	6660	8130	5100	2900	641	250	208	300	186
MIN	8.2	38	718	425	615	783	320	257	85	43	21	27
AC-FT	7140	40590	149600	79200	134000	110800	50000	24740	9010	4750	2840	2940
CAL YR 1982	TOTAL	286614.3	MEAN	785	MAX	8360	MIN	6.5	AC-FT	568500		
WTR YR 1983	TOTAL	310353.0	MEAN	853	MAX	8360	MIN	8.2	AC-FT	615600		

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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (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								
06...	1410	20	12.5	4	.22	--	--	--
NOV								
08...	1325	58	10.5	5	.78	--	--	--
DEC								
01...	1310	2570	8.0	393	2730	17	24	30
21...	1440	6070	7.5	2760	45200	--	--	--
22...	1155	3750	8.0	831	8410	16	23	32
JAN								
20...	1345	1100	5.5	129	383	--	--	--
26...	1225	6060	10.0	3420	56000	--	20	26
FEB								
23...	1235	1950	10.0	415	2180	24	26	32
APR								
05...	1230	1470	9.0	185	734	--	--	--

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								
06...	--	--	--	--	--	--	--	--
NOV								
08...	--	--	--	--	--	--	--	--
DEC								
01...	38	46	53	60	71	84	95	100
21...	--	--	58	--	--	--	--	--
22...	41	50	58	67	79	90	97	100
JAN								
20...	--	--	61	66	79	91	99	100
26...	42	52	62	75	88	96	99	100
FEB								
23...	38	43	46	53	63	80	93	100
APR								
05...	--	--	59	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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
JAN							
20...	1450	6.0	2	1020	1	3	7
FEB							
23...	1350	10.0	3	1930	--	6	23
DATE	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	
JAN							
20...	13	31	63	89	100	--	
FEB							
23...	39	53	67	83	98	100	

REDWOOD CREEK BASIN

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 650 ft³/s Dec. 19, 1981, gage height, 3.92 ft; minimum daily, 0.43 ft³/s Oct. 5, 1979 and Sept. 24, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16	1915	*515	3.59
Feb. 9	2315	389	3.28
Mar. 30	Unknown	400	Unknown

Minimum daily, 0.64 ft³/s Oct. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	6.0	83	34	56	73	175	28	11	20	3.2	7.3
2	.64	5.1	80	32	49	63	135	26	10	11	3.4	5.7
3	.64	4.5	79	34	42	56	110	25	9.7	7.9	3.4	5.1
4	1.0	4.1	89	29	38	52	94	24	8.9	7.0	3.2	4.7
5	2.0	3.9	88	26	35	46	77	25	8.7	6.3	3.2	4.4
6	4.0	3.8	89	22	50	42	65	33	8.1	5.8	3.2	4.1
7	2.2	3.6	77	20	56	39	56	30	7.9	5.5	3.2	3.8
8	1.3	3.5	69	18	54	37	49	38	7.3	5.4	3.2	3.5
9	1.2	3.3	59	16	126	43	43	36	7.3	5.1	2.9	3.5
10	.95	3.2	51	15	229	53	39	32	8.2	4.8	2.9	3.5
11	.89	2.9	44	13	159	45	35	30	7.6	4.5	2.9	3.2
12	.89	2.9	46	12	135	46	30	28	7.2	4.8	2.9	3.2
13	.77	2.9	46	11	147	80	28	27	6.8	4.7	2.8	2.9
14	.75	2.6	41	10	123	70	25	26	6.4	4.5	2.9	2.9
15	.75	2.6	68	11	112	52	23	24	6.5	4.4	2.6	2.9
16	.81	2.7	294	10	93	43	22	23	6.2	4.1	2.6	2.9
17	.89	18	331	12	100	37	20	22	6.2	4.1	2.6	2.9
18	.89	68	198	19	178	33	19	21	6.1	4.1	2.6	2.6
19	.89	67	162	33	142	31	20	20	5.9	4.1	2.3	2.6
20	1.0	44	159	28	127	29	19	18	5.8	4.1	2.5	2.3
21	2.0	34	171	25	123	52	17	17	5.5	3.8	2.6	2.2
22	2.9	28	171	23	122	82	22	16	5.2	3.9	2.6	2.5
23	5.6	24	174	22	105	135	40	16	5.2	4.1	2.6	4.4
24	2.6	21	141	35	90	180	40	14	5.1	4.1	2.5	3.3
25	6.2	18	112	36	119	120	46	14	4.8	4.1	2.3	2.9
26	7.9	17	86	123	114	94	39	14	4.8	4.1	2.3	2.9
27	4.3	20	70	183	98	100	37	13	4.8	3.5	2.3	2.9
28	3.3	39	57	134	83	84	34	12	4.8	3.5	2.0	2.6
29	31	74	49	100	---	160	32	12	4.8	3.5	4.9	2.6
30	14	75	43	75	---	325	29	11	4.8	3.5	15	2.6
31	7.7	---	38	65	---	230	---	11	---	3.2	10	---
TOTAL	110.64	604.6	3265	1226	2905	2532	1420	686	201.6	163.5	107.6	102.9
MEAN	3.57	20.2	105	39.5	104	81.7	47.3	22.1	6.72	5.27	3.47	3.43
MAX	31	75	331	183	229	325	175	38	11	20	15	7.3
MIN	.64	2.6	38	10	35	29	17	11	4.8	3.2	2.0	2.2
AC-FT	219	1200	6480	2430	5760	5020	2820	1360	400	324	213	204
CAL YR 1982	TOTAL	14099.12	MEAN	38.6	MAX	331	MIN	.44	AC-FT	27970		
WTR YR 1983	TOTAL	13324.84	MEAN	36.5	MAX	331	MIN	.64	AC-FT	26430		

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.

INSTRUMENTATION.--Temperature recorder from December 1979 to September 1980.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 06...	1610	6.2	10.0	25	.42	52	--	--	--	--	--
DEC 20...	1300	176	10.0	281	134	26	33	42	55	74	92
JAN 20...	1530	29	7.0	10	.78	50	--	--	--	--	--
JAN 27...	1210	191	7.0	148	76	32	36	43	54	72	95
MAR 07...	1515	39	10.5	60	6.3	90	--	--	--	--	--
APR 05...	1545	73	8.0	20	3.9	57	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD MATERIAL, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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
JAN 27...	1230	7.0	18	191	18.0	33	2

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
JAN 27...	8	21	39	61	79	87	100

REDWOOD CREEK BASIN

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 mi².

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. Datum of gage is 5.16 ft National Geodetic Vertical Datum of 1929. Sept. 10, 1911, to Aug. 9, 1913, nonrecording gage at different datum.

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

AVERAGE DISCHARGE.--32 years, 1,079 ft³/s, 781,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,500 ft³/s Dec. 22, 1964, gage height, 24.0 ft, from outside high-water marks; minimum daily, 9.3 ft³/s on several days during Oct. 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 18, 1953, reached a stage of 23.95 ft, from floodmarks, discharge, 50,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 9,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16	2345	*29,500	19.32	Feb. 10	0815	18,600	16.43
Dec. 21	2045	10,500	13.75	Feb. 18	1230	10,600	13.77
Jan. 26	2145	18,800	16.50	Mar. 30	1700	14,100	16.19

Minimum daily, 13 ft³/s Oct. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	375	4940	1200	2320	3850	6630	1190	367	436	81	431
2	14	260	4130	1110	2000	3100	5810	1080	352	584	80	270
3	13	195	4680	1140	1760	2540	4590	991	333	335	78	196
4	13	157	4790	1060	1580	2270	3560	933	318	252	75	156
5	13	135	4350	990	1450	2020	2840	951	302	225	72	129
6	39	123	4540	944	1760	1760	2340	1260	287	198	69	111
7	94	113	3200	903	3750	1760	2030	1180	272	185	67	100
8	63	142	2370	860	3490	1700	1810	1370	258	177	66	92
9	42	134	1860	807	4970	1770	1650	1480	255	175	63	85
10	32	113	1500	755	14100	3220	1560	1270	272	159	62	80
11	27	101	1240	715	6530	2400	1400	1120	289	139	60	77
12	23	92	1260	679	5520	2320	1240	1000	257	142	58	75
13	20	86	2030	647	6740	5320	1120	931	241	135	56	72
14	18	80	1600	618	5010	4780	1010	867	231	127	55	68
15	17	76	4430	601	4340	3740	929	812	225	116	52	65
16	16	75	15600	622	4010	2970	869	761	215	115	49	64
17	16	1080	16900	601	3910	2500	819	708	206	113	48	62
18	16	5650	6840	1100	8350	2100	782	663	202	111	47	59
19	15	4320	5510	3410	6130	1750	814	630	195	110	45	58
20	15	3050	5750	2410	4540	1540	799	596	188	108	45	54
21	27	2080	8230	1790	4610	1570	800	563	180	106	45	51
22	66	1430	7900	1550	5490	2010	837	532	174	102	47	49
23	310	1050	7310	1490	4170	3290	2360	507	168	99	48	69
24	120	811	4920	4200	3890	6350	2280	484	162	96	47	81
25	100	658	3680	2740	5220	6190	2530	467	159	96	45	71
26	325	560	2980	10800	5540	4190	2040	442	154	96	44	63
27	262	575	2590	13200	4660	4160	1780	418	154	94	42	58
28	140	988	2130	6340	3880	3340	1720	398	154	90	41	55
29	1280	6210	1810	4510	---	4190	1520	387	154	89	61	53
30	1960	4830	1570	3530	---	12400	1320	381	151	85	440	52
31	636	---	1360	2820	---	10300	---	378	---	83	711	---
TOTAL	5746	35549	142000	74142	129720	111400	59789	24750	6875	4978	2799	2906
MEAN	185	1185	4581	2392	4633	3594	1993	798	229	161	90.3	96.9
MAX	1960	6210	16900	13200	14100	12400	6630	1480	367	584	711	431
MIN	13	75	1240	601	1450	1540	782	378	151	83	41	49
AC-FT	11400	70510	281700	147100	257300	221000	118600	49090	13640	9870	5550	5760
CAL YR 1982	TOTAL	537067	MEAN	1471	MAX	16900	MIN	12	AC-FT	1065000		
WTR YR 1983	TOTAL	600654	MEAN	1646	MAX	16900	MIN	13	AC-FT	1191000		

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).

INSTRUMENTATION.--Temperature recorder October 1965 to September 1979.

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 and several days in 1983.

SEDIMENT DISCHARGE: 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.--

WATER TEMPERATURES: Maximum observed, 18.0°C Oct. 1; minimum observed, 7.0°C Dec. 31.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,060 mg/L Feb. 10; minimum daily mean, 1 mg/L on several days during the year.

SEDIMENT DISCHARGE: Maximum daily, 122,000 tons Feb. 10; minimum daily, 0.04 ton Oct. 4, 18-20.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1982 TO APRIL 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.0	13.0	8.0	---	8.5	10.5	9.0					
2	---	13.5	9.0	7.5	8.5	11.0	9.5					
3	---	14.0	10.5	9.0	8.5	10.0	8.0					
4	14.0	14.0	11.5	9.5	8.5	11.0	11.0					
5	---	12.0	12.0	9.5	9.0	10.0	11.0					
6	13.0	14.0	11.0	9.5	9.0	10.5	11.5					
7	15.0	---	9.0	9.5	8.0	10.0	11.5					
8	---	12.0	8.5	9.5	8.5	12.0	12.0					
9	---	12.0	9.0	8.5	9.0	11.0	9.5					
10	15.5	12.0	8.0	7.5	10.0	11.0	10.5					
11	---	10.5	9.5	8.0	11.0	10.5	10.5					
12	---	11.5	8.5	9.0	10.5	10.5	9.5					
13	15.5	---	8.0	8.5	9.0	11.0	10.0					
14	---	12.0	9.0	7.5	9.5	10.5	11.0					
15	14.0	10.5	10.5	8.5	10.0	10.5	10.0					
16	---	11.0	10.5	8.5	9.5	9.0	13.5					
17	---	11.0	9.5	9.0	11.0	10.5	11.5					
18	14.0	10.5	8.5	9.5	10.0	11.0	13.0					
19	---	9.5	10.5	8.0	8.5	11.0	13.5					
20	16.0	12.0	9.5	7.0	10.0	10.0	13.5					
21	---	9.5	9.5	7.5	10.0	10.0	12.0					
22	16.0	10.0	8.5	8.5	11.0	9.5	10.5					
23	17.0	12.0	9.0	---	11.0	9.0	9.0					
24	17.0	11.0	7.5	10.0	10.5	8.5	9.0					
25	15.0	---	---	9.0	10.0	10.0	10.0					
26	14.5	10.0	9.0	10.0	9.0	9.0	11.0					
27	14.0	10.0	8.5	9.0	9.5	10.0	9.5					
28	13.0	10.5	8.0	9.0	9.5	10.0	10.0					
29	13.0	10.0	7.5	9.0	---	10.0	12.5					
30	11.5	9.5	---	8.5	---	10.5	10.5					
31	12.5	---	7.0	10.0	---	10.0	---					
MONTH	---	11.5	9.0	9.0	9.5	10.5	11.0					

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1982 TO APRIL 1983

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	14	4	.15	375	16	16	4940	425	5670
2	14	3	.11	260	6	4.2	4130	351	4090
3	13	2	.07	195	3	1.6	4680	407	5140
4	13	1	.04	157	7	3.0	4790	593	7830
5	13	4	.14	135	5	1.8	4350	370	4350
6	39	10	1.1	123	6	2.0	4540	440	5390
7	94	12	3.0	113	7	2.1	3200	203	1750
8	63	10	1.7	142	6	2.3	2370	130	832
9	42	9	1.0	134	3	1.1	1860	100	502
10	32	8	.69	113	4	1.2	1500	89	360
11	27	6	.44	101	2	.55	1240	65	218
12	23	4	.25	92	1	.25	1260	75	255
13	20	2	.11	86	1	.23	2030	208	1160
14	18	3	.15	80	1	.22	1600	63	272
15	17	4	.18	76	1	.21	4430	984	16600
16	16	3	.13	75	1	.20	15600	2730	149000
17	16	2	.09	1080	440	2030	16900	2390	127000
18	16	1	.04	5650	1730	27900	6840	980	18100
19	15	1	.04	4320	630	7350	5510	770	11500
20	15	1	.04	3050	265	2180	5750	776	12900
21	27	2	.15	2080	142	797	8230	1260	30300
22	66	---	2.0	1430	98	378	7900	1360	30100
23	310	---	17	1050	62	176	7310	750	14800
24	120	6	1.9	811	35	77	4920	470	6240
25	100	6	1.6	658	24	43	3680	340	3380
26	325	47	41	560	17	26	2980	255	2050
27	262	17	12	575	24	38	2590	210	1470
28	140	3	1.1	988	128	722	2130	170	978
29	1280	683	4840	6210	1630	29300	1810	115	562
30	1960	575	3040	4830	490	6390	1570	85	360
31	636	80	137	---	---	---	1360	65	239
TOTAL	5746	---	8103.22	35549	---	77443.96	142000	---	463398

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1200	56	181	2320	170	1060	3850	385	4070
2	1110	49	147	2000	122	659	3100	227	1900
3	1140	52	160	1760	98	466	2540	168	1150
4	1060	38	109	1580	78	333	2270	148	907
5	990	35	94	1450	63	247	2020	126	687
6	944	30	76	1760	124	821	1760	100	475
7	903	23	56	3750	573	5990	1760	92	437
8	860	20	46	3490	448	4220	1700	80	367
9	807	19	41	4970	893	15600	1770	112	535
10	755	18	37	14100	3060	122000	3220	527	4680
11	715	14	27	6530	1000	17600	2400	147	953
12	679	12	22	5520	740	11100	2320	400	2510
13	647	10	17	6740	1150	21400	5320	1660	24100
14	618	9	15	5010	540	7300	4780	770	9940
15	601	10	16	4340	450	5270	3740	380	3840
16	622	12	20	4010	410	4440	2970	220	1760
17	601	8	13	3910	476	5680	2500	130	878
18	1100	223	1110	8350	1390	32800	2100	104	590
19	3410	626	5780	6130	625	10300	1750	75	354
20	2410	187	1220	4540	380	4660	1540	68	283
21	1790	105	507	4610	460	5730	1570	64	271
22	1550	92	385	5490	640	9490	2010	368	2680
23	1490	85	342	4170	250	2810	3290	600	5330
24	4200	---	10000	3890	230	2420	6350	1280	24500
25	2740	260	1920	5220	804	14800	6190	600	10000
26	10800	2010	72300	5540	480	7180	4190	325	3680
27	13200	2050	73100	4660	350	4400	4160	390	4380
28	6340	930	15900	3880	260	2720	3340	200	1800
29	4510	510	6210	---	---	---	4190	444	7290
30	3530	320	3050	---	---	---	12400	2100	70000
31	2820	228	1740	---	---	---	10300	1240	34500
TOTAL	74142	---	194641	129720	---	321496	111400	---	224847

11510700 KLAMATH RIVER BELOW JOHN C. BOYLE POWERPLANT, NEAR KENO, OR

LOCATION.--lat 42°05'05", long 122°04'20", in SE¼SE¼ sec.14, T.40 S., R.6 E., Klamath County, Hydrologic Unit 18010206, on right bank 0.7 mi downstream from John C. Boyle powerplant, 8 mi downstream from Spencer Creek, and 8.5 mi southwest of Keno.

DRAINAGE AREA.--4,080 mi², approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--January 1959 to current year. Prior to Oct. 1, 1961, published as "below Big Bend powerplant."

GAGE.--Water-stage recorder. Datum of gage is 3,274.82 ft National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.).

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake. Large diurnal fluctuation caused by John C. Boyle powerplant and two powerplants below Upper Klamath Lake. Diversions for irrigation above station.

AVERAGE DISCHARGE.--24 years, 1,874 ft³/s, 1,358,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft³/s Mar. 5, 1972, gage height, 9.33 ft; minimum daily, 317 ft³/s July 25, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,640 ft³/s Mar. 14, gage height, 8.88 ft; minimum daily, 603 ft³/s July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1530	2710	3350	2890	2750	5940	7810	5740	3790	930	879	1060
2	1530	2770	3330	2890	2720	5970	7610	5370	3600	938	930	1110
3	1530	2780	3550	2880	2710	6080	7620	5220	3640	924	976	1150
4	1530	2780	3890	2740	2600	6180	7200	4850	3610	982	706	1150
5	1520	2780	3900	2620	2560	6180	7160	4390	3630	1060	618	1140
6	1520	2780	3900	2590	2570	6010	6800	4130	3600	1140	616	1150
7	1840	2770	3900	2590	2620	5850	6770	3950	3590	1130	617	1190
8	1820	2800	3890	2550	2690	6030	5880	3950	3550	1190	614	1250
9	1730	2780	3530	2430	2800	6020	5170	3920	3140	1060	617	1240
10	1490	2780	3020	2580	2930	6070	4660	4060	2690	1070	619	1250
11	1900	2780	2940	2590	3270	6520	4320	4220	2440	1020	619	1110
12	1880	2800	2920	2580	3290	6800	3820	4110	2560	745	841	1280
13	1520	2800	2890	2520	3750	7920	3680	4010	2450	745	1160	1480
14	1940	2800	2820	2500	4160	8510	3170	3680	2510	746	1160	1480
15	1910	2800	2820	2520	4360	8920	3240	3790	2690	659	1160	1020
16	1510	2780	2880	2530	4510	8260	3540	3600	2540	658	1160	1470
17	1510	2770	3300	2540	4310	7950	2570	3060	2710	653	1150	1470
18	1960	2810	3840	2540	4430	8050	2070	2790	2720	653	1110	1540
19	1780	2810	3860	2570	5730	7790	2760	2630	2710	605	1110	1550
20	1600	2810	3860	2560	6280	6800	3170	2610	2330	752	1110	1500
21	1320	2810	3850	2550	5330	6910	3210	2620	1360	750	1110	1520
22	1740	2800	3850	2550	5460	6840	3130	2630	1130	609	1110	1560
23	1460	2940	3840	2550	5640	6820	2870	2390	916	610	1110	1710
24	1600	3230	3800	2550	5920	6090	2850	2260	852	611	1150	1850
25	1140	3200	3790	2560	6250	5150	3300	2070	843	607	1160	1650
26	1650	3180	3820	2590	5930	5160	3880	2220	866	603	1110	1680
27	1430	3200	3560	2830	5940	5160	3800	2420	845	606	1160	1680
28	2000	3200	2980	3470	5930	5150	4150	2680	710	605	1160	1970
29	2610	3210	2860	3430	---	5120	4660	2720	823	607	1160	2200
30	2700	3230	2890	3420	---	5590	5070	2750	966	651	1060	2190
31	2710	---	2890	3010	---	7230	---	3200	---	699	1060	---
TOTAL	53910	86690	106520	83720	117440	203070	135940	108040	69811	24618	30122	43600
MEAN	1730	2890	3436	2701	4194	6551	4531	3485	2327	794	972	1453
MAX	2710	3230	3900	3470	6280	8920	7810	5740	3790	1190	1160	2200
MIN	1140	2710	2820	2430	2560	5120	2070	2070	710	603	614	1020
AC-FT	106900	171900	211300	166100	232900	402800	269600	214300	138500	48830	59750	86480
CAL YR 1982	TOTAL	1020067	MEAN	2795	MAX	10000	MIN	360	AC-FT	2023000		
WTR YR 1983	TOTAL	1063481	MEAN	2914	MAX	8920	MIN	603	AC-FT	2109000		

KLAMATH RIVER BASIN

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 mi². PERIOD OF RECORD, October 1967 to current year. 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.).

Reservoir is formed by gravity-type dam completed in 1922. Normal capacity at elevation 2,607.5 ft is 46,867 acre-ft. Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 46,818 acre-ft June 24, 1969, elevation, 2,607.45 ft; minimum, 30,360 acre-ft Aug. 19, 1971, elevation, 2,589.24 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 45,705 acre-ft Sept. 1, elevation, 2,606.32 ft; minimum 40,235 acre-ft April 5, elevation, 2,600.57 ft.

11516510 IRON GATE RESERVOIR NEAR HORN BROOK.--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 mi². PERIOD OF RECORD, October 1967 to current year. 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.).

Reservoir is formed by earth and rockfill dam completed in 1962. Capacity is 58,794 acre-ft at elevation 2,328.0 ft, crest of spillway. Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 61,776 acre-ft Mar. 3, 1972, elevation, 2,330.96 ft; minimum, 50,103 acre-ft Dec. 9, 1968, elevation, 2,318.40 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 61,009 acre-ft Mar. 15, elevation, 2,330.21 ft; minimum, 51,922 acre-ft Aug. 12, elevation, 2,320.55 ft.

MONTHEND ELEVATION NGVD AND CONTENTS AT 0800, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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.....	2603.22	42716	--	2326.24	57096	--
Oct. 31.....	2601.58	41174	-1542	2328.48	59269	+2173
Nov. 30.....	2602.19	41744	+570	2328.73	59517	+248
Dec. 31.....	2601.69	41276	-468	2328.62	59408	-109
CAL YR 1982.....	--	--	+19	--	--	-830
Jan. 31.....	2602.63	42158	+882	2328.84	59626	+218
Feb. 28.....	2600.79	40438	-1720	2329.56	60350	+724
Mar. 31.....	2601.03	40660	+222	2329.95	60744	+394
Apr. 30.....	2602.81	42328	+1668	2329.21	59996	-748
May 31.....	2601.67	41257	-1071	2328.69	59477	-519
June 30.....	2603.44	42925	+1668	2328.15	58942	-535
July 31.....	2605.00	44419	+1494	2326.53	57373	-1569
Aug. 31.....	2606.29	45674	+1255	2327.31	58124	+751
Sept. 30.....	2605.09	44506	-1168	2326.87	57698	-426
WTR YR 1983.....	--	--	+1790	--	--	+602

KLAMATH RIVER BASIN

303

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 mi², 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 National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.).

REMARKS.--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.--23 years, 2,239 ft³/s, 1,622,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft³/s Dec. 22, 1964, gage height, 13.63 ft, from rating curve extended above 15,000 ft³/s on basis of slope-area measurement of maximum flow; minimum daily 647 ft³/s Oct. 30, Nov. 6, 1960, Sept. 24, Oct. 1, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,800 ft³/s Mar. 15, gage height, 9.20 ft; minimum daily, 720 ft³/s July 27, 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1580	2830	3530	3060	3170	7480	9880	6420	4480	1120	1020	1300
2	1710	2830	3660	3070	2940	7230	9440	6190	4210	1120	1030	1310
3	1730	2830	3890	3070	2910	7150	9250	5580	4080	1110	1010	1310
4	1730	2820	4510	2960	2900	7240	8890	5710	4050	1100	1030	1310
5	1730	2820	4470	2730	2860	7230	8190	5360	4030	1240	1020	1300
6	1730	2820	4440	2670	2850	7070	7970	4960	4010	1430	1010	1370
7	1780	2820	4360	2700	2910	6780	7490	4540	3990	1340	1010	1490
8	1820	3000	4280	2910	3060	6680	7240	4530	3970	1110	1010	1500
9	1820	2830	3900	2910	3880	6760	6140	4510	3690	891	1010	1510
10	1810	2810	3250	2890	4170	6930	5810	4580	2880	882	1020	1510
11	1810	2810	3100	2750	4240	7440	5080	4880	2520	880	1010	1510
12	1810	2820	3070	2730	4440	7990	4350	4640	2700	885	1010	1510
13	1820	2780	3090	2730	4670	9840	4340	4650	2800	873	1010	1510
14	1820	2780	2980	2720	5470	9900	3840	4320	2720	875	1010	1420
15	1820	2840	3080	2720	5860	10500	3410	4210	3040	940	1010	1470
16	1810	2920	5530	2750	5900	9430	3390	4270	3090	876	1000	1380
17	1810	2950	6490	2790	5590	9010	3400	3620	2730	874	993	1510
18	1810	3080	4700	2880	5910	9010	3420	3220	2860	875	1000	1510
19	1810	3180	4600	3190	6840	8980	3180	3440	2930	736	1000	1510
20	1810	2980	4640	3020	7570	7910	3390	3680	2820	724	1020	1700
21	1820	2960	5450	2940	6950	7560	3920	3710	1940	724	1030	1840
22	1820	2960	5010	2920	6330	7820	3990	3720	1240	722	1060	1800
23	1820	3110	4560	2910	6760	7740	3660	3350	955	722	1030	1810
24	1820	3570	4410	2990	6870	7260	3560	2710	914	722	1020	1810
25	1820	3260	4320	2970	7320	6040	3550	2580	913	722	1020	1810
26	1820	3390	4240	3180	7150	5870	4430	2880	908	724	1020	1810
27	1820	3300	4230	4030	6960	5940	4330	3070	939	720	1000	1800
28	1820	3370	3210	4410	6950	5890	4470	3590	757	722	998	1800
29	2270	3590	2870	4130	---	5910	5150	3340	736	720	1000	1800
30	2860	3560	2960	3910	---	8040	5440	3450	827	720	1000	1790
31	2840	---	3090	3670	---	9490	---	3500	---	900	1020	---
TOTAL	58100	90620	125920	95310	143430	238120	160600	129210	77729	27999	31431	47010
MEAN	1874	3021	4062	3075	5122	7681	5353	4168	2591	903	1014	1567
MAX	2860	3590	6490	4410	7570	10500	9880	6420	4480	1430	1060	1840
MIN	1580	2780	2870	2670	2850	5870	3180	2580	736	720	993	1300
AC-FT	115200	179700	249800	189000	284500	472300	318600	256300	154200	55540	62340	93240
CAL YR 1982	TOTAL	1192996	MEAN	3268	MAX	16100	MIN	707	AC-FT	2366000		
WTR YR 1983	TOTAL	1225479	MEAN	3357	MAX	10500	MIN	720	AC-FT	2431000		

KLAMATH RIVER BASIN

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 0.5 mi upstream from mouth, and 7 mi north of Yreka.

DRAINAGE AREA.--793 mi².

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. Altitude of gage is 2,000 ft, from topographic map. Prior to Nov. 2, 1933, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow partly regulated by Lake Dvinnell beginning in 1928; storage limited to 50,000 acre-ft. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--46 years (water years 1934-41, 1946-83), 190 ft³/s, 137,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft³/s Dec. 22, 1964, gage height, 12.92 ft in gage well, 13.85 ft from floodmarks, from rating curve extended above 4,100 ft³/s on basis of slope-area measurement of maximum flow; minimum daily discharge, 1.5 ft³/s Aug 24, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,840 ft³/s Mar. 2, gage height, 7.31 ft; minimum daily, 45 ft³/s Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	227	263	237	528	1760	1110	404	598	147	74	144
2	141	218	256	235	405	2600	911	400	617	152	72	141
3	133	208	293	252	371	2250	753	364	546	140	62	132
4	146	204	268	281	343	1760	693	352	445	128	65	111
5	148	201	247	301	318	1320	606	340	381	118	68	125
6	154	198	239	308	307	1160	469	325	371	119	61	115
7	194	197	232	330	312	1050	432	309	354	133	71	102
8	182	195	220	350	318	952	414	300	332	127	70	99
9	185	194	214	317	548	803	399	293	441	128	64	87
10	176	194	213	288	1260	677	378	267	386	129	54	89
11	177	194	211	273	1010	624	365	236	404	121	46	88
12	182	194	213	263	1140	654	356	213	413	121	45	99
13	186	194	226	255	1290	837	337	210	371	117	46	99
14	181	194	221	249	1070	919	319	196	323	104	79	96
15	172	192	288	250	948	1000	301	180	279	124	63	89
16	171	192	732	286	734	944	295	186	254	124	78	85
17	170	199	1310	332	659	946	281	176	233	103	95	89
18	168	248	624	319	691	851	277	175	208	92	59	89
19	168	268	444	306	777	661	250	178	201	86	67	101
20	173	238	394	291	829	575	224	182	193	95	72	108
21	176	221	619	278	748	548	254	187	172	89	71	108
22	177	213	635	269	676	510	249	194	157	81	140	116
23	183	212	569	261	598	484	250	203	152	74	186	168
24	193	205	444	278	507	586	282	240	149	60	164	163
25	198	203	355	325	549	603	337	299	142	60	155	145
26	195	202	328	334	525	594	454	352	127	64	126	137
27	195	204	331	1100	538	622	450	444	156	72	128	133
28	192	210	324	1200	804	563	366	531	143	100	120	138
29	207	268	285	758	---	526	348	580	149	98	117	141
30	239	281	261	691	---	746	350	614	136	83	164	164
31	234	---	246	641	---	1210	---	608	---	75	150	---
TOTAL	5531	6368	11505	11858	18803	29335	12510	9538	8833	3264	2832	3501
MEAN	178	212	371	383	672	946	417	308	294	105	91.4	117
MAX	239	281	1310	1200	1290	2600	1110	614	617	152	186	168
MIN	133	192	211	235	307	484	224	175	127	60	45	85
AC-FT	10970	12630	22820	23520	37300	58190	24810	18920	17520	6470	5620	6940
CAL YR 1982	TOTAL	98649	MEAN	270	MAX	2440	MIN	28	AC-FT	195700		
WTR YR 1983	TOTAL	123878	MEAN	339	MAX	2600	MIN	45	AC-FT	245700		

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 mi².

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. WRD CA-82: Peak base.

GAGE.--Water-stage recorder. Datum of gage is 2,623.80 ft 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.--Records good. Diversions for irrigation of about 30,000 acres above station.

AVERAGE DISCHARGE.--42 years, 677 ft³/s, 490,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,600 ft³/s Dec. 22, 1964, gage height, 25.34 ft from floodmarks, from rating curve extended above 15,000 ft³/s on basis of slope-area measurement at 21.40 ft, site and datum then in use; minimum daily, 5.0 ft³/s on several days during August 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 17	1000	8,980	14.17	Mar. 1	1515	5,120	11.70
Dec. 21	2400	3,300	10.14	Mar. 13	1745	5,560	12.06
Jan. 27	1030	*9,460	14.44	Mar. 31	0415	5,820	12.31
Feb. 12	1745	3,800	10.60	Apr. 2	0015	3,270	10.22
Feb. 18	1900	5,610	12.05				

Minimum daily, 78.0 ft³/s Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	384	589	729	1430	4200	3610	1350	3220	1320	377	443
2	78	308	479	703	1310	4480	2940	1300	2680	1340	350	369
3	78	267	531	696	1200	4340	2500	1330	2640	1230	336	322
4	81	240	710	694	1110	3280	2210	1440	2400	1210	325	298
5	82	222	884	700	1050	2740	2000	1510	2100	1270	326	281
6	85	211	1240	767	1010	2440	1850	1450	1870	1350	302	269
7	86	203	983	901	1060	2330	1740	1340	1690	1190	280	254
8	92	196	773	996	1050	2170	1680	1290	1710	1030	270	244
9	94	190	661	993	1490	2110	1650	1240	1800	905	252	233
10	97	183	579	942	2580	3010	1580	1150	1890	831	247	222
11	97	175	517	902	2380	3050	1510	1080	1950	778	235	219
12	97	170	482	854	3170	2970	1440	1060	1890	816	233	212
13	97	166	498	810	3280	4930	1350	1090	1650	885	228	206
14	96	159	477	774	2530	4400	1290	1170	1400	922	241	204
15	95	154	740	755	2420	3380	1220	1310	1370	825	240	198
16	95	154	2790	778	2400	2860	1190	1430	1390	734	231	193
17	95	182	6880	806	2400	2530	1210	1450	1410	679	217	188
18	94	622	2910	907	4650	2270	1240	1570	1480	608	209	185
19	93	779	2050	1230	4010	2060	1320	1890	1550	560	203	179
20	93	491	1910	1050	2940	1910	1460	2260	1620	547	191	176
21	93	381	2440	965	2560	1810	1530	2800	1500	529	191	174
22	93	325	2670	914	2480	1730	1710	3290	1310	512	214	173
23	115	291	1920	895	2530	1670	1980	3810	1240	494	220	192
24	210	268	1530	1790	2430	1700	2070	4270	1300	466	233	202
25	175	252	1320	1550	2280	1580	1740	4560	1400	437	243	204
26	162	242	1200	2630	2140	1470	1520	4530	1490	425	242	205
27	169	242	1120	7330	2200	1530	1390	4490	1510	413	239	205
28	163	313	1020	3260	2250	1460	1390	4670	1410	391	232	202
29	433	744	926	2340	---	1510	1410	4830	1380	382	229	200
30	1100	816	837	1880	---	4100	1370	4750	1350	382	447	197
31	548	---	782	1600	---	5150	---	4030	---	380	558	---
TOTAL	5064	9330	42448	42141	62340	85170	51100	73740	51600	23841	8341	6849
MEAN	163	311	1369	1359	2226	2747	1703	2379	1720	769	269	228
MAX	1100	816	6880	7330	4650	5150	3610	4830	3220	1350	558	443
MIN	78	154	477	694	1010	1460	1190	1060	1240	380	191	173
AC-FT	10040	18510	84200	83590	123700	168900	101400	146300	102300	47290	16540	13580
CAL YR 1982	TOTAL	355210	MEAN	973	MAX	10500	MIN	45	AC-FT	704600		
WTR YR 1983	TOTAL	461964	MEAN	1266	MAX	7330	MIN	78	AC-FT	916300		

NOTE: No gage-height record June 4 to July 6.

KLAMATH RIVER BASIN

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 mi², approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1912 to September 1925, July 1951 to current year. Monthly discharges only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft from river-profile map. November 1912 to June 1925, nonrecording gage at site 3.5 mi upstream at different datum.

REMARKS.--Records good. Flow regulated considerably by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--45 years, 4,133 ft³/s, 2,994,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165,000 ft³/s Dec. 23, 1964, gage height, 33.75 ft from floodmarks, from rating curve extended above 49,000 ft³/s on basis of slope-area measurements at gage heights 20.1 ft and 29.2 ft; minimum daily, 320 ft³/s Nov. 25, 1917.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,000 ft³/s Dec. 17, gage height, 14.70 ft; minimum daily, 1,480 ft³/s Aug. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1840	3820	5220	4950	7230	16900	21800	10400	11800	3910	1860	2300
2	1990	3680	4900	4890	6390	18900	19600	10500	10700	4670	1910	2330
3	2090	3610	5360	4900	6020	18100	17900	9870	9970	3950	1860	2210
4	2070	3550	6370	4910	5750	16500	16600	10200	9850	3720	1810	2100
5	2070	3520	6740	4650	5520	15200	15200	9940	9580	3690	1790	2030
6	2110	3510	7220	4770	5470	14300	14200	9490	9620	3950	1730	2030
7	2210	3490	6650	5010	5590	13900	13300	8780	9900	3780	1700	2100
8	2250	3530	6110	5500	5600	13300	12800	8510	10200	3430	1660	2110
9	2240	3600	5810	5550	7440	12900	11900	8350	10300	2960	1640	2100
10	2240	3420	4820	5320	10700	14400	11200	8130	9340	2720	1620	2070
11	2220	3420	4500	5110	10700	14800	10300	8260	8340	2630	1600	2060
12	2220	3420	4360	4910	12700	15500	9130	8190	7580	2610	1570	2040
13	2220	3410	4390	4810	13900	21500	8740	8180	7400	2700	1550	2030
14	2220	3370	4360	4720	12800	21900	8320	8140	7100	2730	1570	1990
15	2220	3370	5160	4670	13500	20300	7500	8030	7500	2650	1610	1930
16	2220	3460	12800	4750	13600	18500	7290	8270	7360	2500	1570	1900
17	2220	3740	24300	4930	14000	17000	7320	8080	7170	2370	1570	1880
18	2200	4660	13000	5230	19500	16100	7360	7650	6930	2260	1530	1940
19	2200	5180	9860	6150	18800	15300	7370	8030	6670	2140	1480	1940
20	2200	4450	9390	5870	17400	14100	7460	8990	6390	1970	1500	1940
21	2230	4110	11400	5480	16300	12600	8200	9920	5710	1950	1540	2190
22	2330	3970	12900	5350	14700	12800	8730	10600	4700	1900	1610	2200
23	2510	3890	9920	5290	14900	12600	8780	11500	4180	1870	1810	2330
24	2460	4310	8520	6270	14400	12500	8760	11800	3910	1830	1740	2400
25	2440	4280	7700	6480	14400	11300	8150	12000	3730	1800	1740	2380
26	2450	4060	7290	9040	14100	10600	8520	12300	3690	1760	1710	2340
27	2400	4250	7040	17200	13700	10800	8720	12500	3750	1720	1660	2300
28	2390	4220	6340	13400	13800	10700	8430	13500	3750	1680	1630	2290
29	3120	5300	5260	10400	---	10900	9120	14100	3610	1670	1620	2290
30	4870	5730	5010	8950	---	20200	9390	13600	3410	1660	2400	2280
31	4150	---	5100	8190	---	24300	---	12500	---	1660	2650	---
TOTAL	74600	118330	237800	197650	328910	478700	322090	310310	214140	80840	53240	64030
MEAN	2406	3944	7671	6376	11750	15440	10740	10010	7138	2608	1717	2134
MAX	4870	5730	24300	17200	19500	24300	21800	14100	11800	4670	2650	2400
MIN	1840	3370	4360	4650	5470	10600	7290	7650	3410	1660	1480	1880
AC-FT	148000	234700	471700	392000	652400	949500	638900	615500	424700	160300	105600	127000
CAL YR 1982	TOTAL	2130900	MEAN	5838	MAX	42400	MIN	1120	AC-FT	4227000		
WTR YR 1983	TOTAL	2480640	MEAN	6796	MAX	24300	MIN	1480	AC-FT	4920000		

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 mi².

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 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.--Records good. Small diversions above station for irrigation.

AVERAGE DISCHARGE.--29 years (water years 1912-14, 1958-83), 443 ft³/s, 321,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft³/s Dec. 22, 1964, gage height, 24.3 ft from floodmarks, present site and datum, from rating curve extended above 6,000 ft³/s on basis of slope-area measurement at gage height 29.0 ft, previous site and datum; minimum observed, 20 ft³/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 ft³/s on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16	1915	7,000	11.44	Mar. 10	0400	3,690	9.20
Jan. 26	1800	*9,970	12.94	Mar. 30	0815	5,350	10.43
Feb. 18	0500	9,360	12.65				

Minimum daily, 50 ft³/s Oct. 17-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	155	547	395	918	1390	1990	693	1020	507	125	147
2	54	127	495	383	811	1330	1690	707	905	412	120	122
3	54	110	790	403	726	1180	1390	738	862	310	117	107
4	53	98	1470	419	652	1090	1190	798	817	285	114	98
5	54	91	1370	441	593	1060	1060	826	801	275	110	93
6	74	90	1340	480	649	1030	965	752	854	256	106	88
7	90	85	831	554	663	1260	916	701	890	238	103	85
8	66	81	601	635	702	1270	894	699	915	227	103	83
9	60	78	474	608	1320	1600	860	621	830	215	102	81
10	58	74	394	546	1240	2870	788	571	806	207	99	79
11	55	72	334	497	1240	1840	724	553	691	203	99	78
12	54	69	323	469	2320	2090	664	572	598	206	96	77
13	52	68	309	445	2140	3130	616	646	572	204	100	77
14	51	67	369	427	1590	2330	584	741	591	197	107	74
15	51	65	1360	420	1750	1770	563	775	562	181	96	73
16	51	67	5250	436	1670	1440	576	774	528	173	91	71
17	50	391	3200	457	3740	1220	630	776	526	168	87	69
18	50	1410	1700	1040	6270	1070	648	883	468	164	84	68
19	50	711	1290	1120	2830	951	782	1020	419	175	82	68
20	50	445	1200	870	1960	890	848	1180	398	165	81	67
21	72	340	1400	759	1900	848	868	1310	382	156	81	67
22	177	280	1240	718	2260	883	950	1320	374	154	84	73
23	189	241	990	793	2220	875	1100	1480	364	151	89	91
24	122	218	807	1580	1810	961	939	1650	332	148	86	81
25	123	196	703	1330	1530	896	798	1530	322	143	83	74
26	243	179	634	5660	1330	853	712	1430	325	138	79	71
27	153	213	573	4410	1310	855	666	1420	319	135	77	70
28	123	410	525	2260	1240	806	659	1530	314	132	75	69
29	1110	848	483	1590	---	1330	663	1630	300	131	100	68
30	511	740	449	1240	---	4550	684	1350	286	128	169	66
31	220	---	420	1050	---	2840	---	1180	---	127	168	---
TOTAL	4175	8019	31871	32435	47384	46508	26417	30856	17371	6311	3113	2435
MEAN	135	267	1028	1046	1692	1500	881	995	579	204	100	81.2
MAX	1110	1410	5250	5660	6270	4550	1990	1650	1020	507	169	147
MIN	50	65	309	383	593	806	563	553	286	127	75	66
AC-FT	8280	15910	63220	64330	93990	92250	52400	61200	34460	12520	6170	4830
CAL YR 1982	TOTAL	212666	MEAN	583	MAX	5250	MIN	50	AC-FT	421800		
WTR YR 1983	TOTAL	256895	MEAN	704	MAX	6270	MIN	50	AC-FT	509600		

KLAMATH RIVER BASIN

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 mi².

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. Datum of gage is 482.97 ft 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.--Records good. No storage or large diversion above station.

AVERAGE DISCHARGE.--60 years, 1,829 ft³/s, 1,325,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133,000 ft³/s Dec. 22, 1964, gage height, 46.6 ft present site and datum, from floodmarks, from rating curve extended above 33,000 ft³/s; minimum, 70 ft³/s Aug. 25, Sept. 4, 5, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16	2400	*25,700	15.20	Mar. 13	1430	13,000	10.22
Jan. 26	2400	23,800	14.54	Mar. 30	2230	17,400	12.07
Feb. 18	1245	13,900	10.62	May 29	0230	10,800	9.29

Minimum daily, 210 ft³/s Oct. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	224	864	2270	1930	3680	6890	10200	2780	6270	4160	1020	1710
2	221	614	1960	1840	3230	7050	8590	2790	5310	4070	967	1070
3	217	535	2750	1860	2890	6790	7320	2940	5370	2770	937	840
4	212	501	3900	1800	2630	5980	6330	3290	5600	2640	910	715
5	212	458	4560	1880	2410	5350	5550	3480	5450	2740	829	644
6	245	436	5520	2180	2450	4820	5020	3250	5870	2750	758	597
7	328	420	3720	2410	2590	4720	4660	3060	6300	2240	737	570
8	267	406	2760	2470	2720	4600	4490	3060	6400	1980	763	544
9	246	391	2270	2320	4040	4620	4360	2850	6110	1750	755	516
10	237	373	1960	2130	7330	6020	4030	2690	5770	1650	717	489
11	230	359	1730	1980	7050	5580	3720	2590	5150	1690	656	467
12	225	347	1650	1890	7850	6280	3430	2640	4300	1920	629	456
13	220	341	1730	1830	8060	11400	3160	2770	4090	2110	608	455
14	216	330	1600	1760	6900	9780	2950	3100	4390	2100	629	444
15	216	320	3990	1730	6490	7820	2810	3450	4280	1670	599	428
16	214	321	13300	1800	6620	6700	2750	3770	4140	1470	600	413
17	212	1200	17400	1810	7040	5790	2850	3850	4510	1360	585	404
18	212	4930	8560	2260	11900	5130	2950	4330	3990	1280	539	394
19	212	3260	6280	2810	10100	4590	3200	5240	3370	1240	506	383
20	210	2030	5910	2410	7910	4190	3420	6280	3150	1200	557	368
21	225	1530	7830	2240	6870	3900	3650	7360	3000	1160	570	357
22	837	1280	8440	2160	7240	3870	3990	7770	2990	1200	558	361
23	1460	1220	6050	2170	7330	3720	4380	8500	3180	1210	541	498
24	795	1160	4440	3830	6600	4120	3940	9270	2790	1230	499	466
25	512	1060	3670	3640	6120	4130	3530	9360	2680	1180	535	413
26	854	983	3200	10700	5730	3880	3190	8940	2820	1110	541	390
27	619	1050	2890	16600	5820	4150	3090	9150	2840	1040	499	374
28	474	1630	2630	9050	5750	3960	3010	9540	2930	1010	465	365
29	3880	4010	2400	6540	---	4680	2910	9890	2790	1010	518	356
30	3260	3200	2230	5110	---	13400	2840	8700	2550	1080	3950	348
31	1300	---	2070	4280	---	14100	---	7540	---	1080	3020	---
TOTAL	18792	35559	139670	107420	165350	188010	126320	164230	128390	55100	25997	15835
MEAN	606	1185	4505	3465	5905	6065	4211	5298	4280	1777	839	528
MAX	3880	4930	17400	16600	11900	14100	10200	9890	6400	4160	3950	1710
MIN	210	320	1600	1730	2410	3720	2750	2590	2550	1010	465	348
AC-FT	37270	70530	277000	213100	328000	372900	250600	325800	254700	109300	51570	31410
CAL YR 1982	TOTAL	1009750	MEAN	2766	MAX	22800	MIN	210	AC-FT	2003000		
WTR YR 1983	TOTAL	1170673	MEAN	3216	MAX	17400	MIN	210	AC-FT	2322000		

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 mi², 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. Datum of gage is 355.98 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1965, at site 6.7 mi upstream at datum 90.68 ft higher.

REMARKS.--Records good except those of faulty gage-height record, Dec. 26 to Feb. 10, which are fair. Flow considerably regulated by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--56 years, 8,308 ft³/s, 6,019,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 307,000 ft³/s Dec. 22, 1964, gage height, 76.5 ft, from floodmarks, site and datum then in use, from rating curve extended above 80,000 ft³/s by slope-conveyance study; minimum daily, 320 ft³/s Aug. 25, Sept. 1, 1951.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 40,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 17	1000	*198,000	29.88	Mar. 13	1530	63,600	18.46
Jan. 26	Unknown	111,000	Unknown	Mar. 30	1900	86,700	21.14
Feb. 18	1100	89,300	21.41				

Minimum daily, 2,320 ft³/s Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2400	6400	12400	9800	21500	31500	51600	16700	23600	10300	3400	5400
2	2510	4900	10900	9600	19000	36200	43600	17300	21500	12200	3500	4460
3	2630	4290	13800	9600	17000	34200	37000	17100	20400	9450	3420	4020
4	2670	4150	19100	9600	14900	31200	32800	17400	20400	8560	3330	3740
5	2710	3990	19800	11100	13800	28500	29600	17900	19800	8420	3220	3550
6	2820	3920	22200	11900	13400	26600	27100	17200	20300	8460	3110	3450
7	3150	3860	17100	12900	14600	27100	25300	16100	21200	7980	3010	3380
8	3020	3820	13900	12600	17500	26600	24100	15700	21700	7410	2950	3430
9	2980	3920	12000	12000	25000	26800	23100	15100	21500	6670	2890	3380
10	2960	3720	10400	11200	34000	35500	21300	14400	20200	6040	2810	3350
11	2930	3630	8860	10100	33100	32600	19900	14200	18400	5860	2740	3310
12	2910	3590	8420	10000	36000	33900	18300	14400	15900	5960	2670	3290
13	2900	3570	8750	9400	41300	56200	16900	14500	15100	6170	2610	3270
14	2910	3500	8780	9000	34900	53800	16300	15300	15300	6200	2620	3240
15	2900	3460	21800	9400	33600	43800	15200	15500	15100	5690	2590	3120
16	2880	3540	75200	9400	35100	37400	14500	15900	14900	5330	2560	3120
17	2870	6960	71100	11000	41900	32400	14700	16100	15300	4990	2510	3010
18	2860	17800	35400	13600	77900	29000	14900	16200	14300	4720	2460	3070
19	2850	14800	27000	14000	56000	26800	15600	17900	13300	4550	2370	3050
20	2860	10700	26000	12200	41000	25300	16000	20400	12600	4340	2370	3040
21	2950	8260	32600	11000	36800	23400	16700	23500	12000	4170	2390	3080
22	4050	7160	32300	13500	37200	23300	17800	24700	10800	4090	2370	3300
23	5560	6680	24500	21000	36400	23300	19300	26800	10200	4030	2440	3510
24	4360	6500	20600	21000	33400	24000	18200	29000	9380	4000	2480	3570
25	3710	6630	16000	30000	31500	23300	16800	29400	8850	3890	2440	3470
26	4990	6030	14500	76000	30200	21500	15800	28300	8820	3780	2420	3410
27	4130	6580	13600	68000	29500	22300	16100	28700	8840	3660	2380	3360
28	3680	8660	12800	49000	28900	21700	15600	30300	9000	3570	2320	3310
29	11900	15500	11800	35000	---	23700	15700	32400	8640	3500	2380	3300
30	14200	15500	11200	29000	---	66700	16200	30100	8130	3520	6780	3270
31	9400	---	10100	25000	---	70900	---	26700	---	3460	7970	---
TOTAL	125650	202020	642910	596900	885400	1019500	646000	635200	455460	180970	93510	103260
MEAN	4053	6734	20740	19250	31620	32890	21530	20490	15180	5838	3016	3442
MAX	14200	17800	75200	76000	77900	70900	51600	32400	23600	12200	7970	5400
MIN	2400	3460	8420	9000	13400	21500	14500	14200	8130	3460	2320	3010
AC-FT	249200	400700	1275000	1184000	1756000	2022000	1281000	1260000	903400	359000	185500	204800
CAL YR 1982	TOTAL	4826820	MEAN	13220	MAX	101000	MIN	2180	AC-FT	9574000		
WTR YR 1983	TOTAL	5586780	MEAN	15310	MAX	77900	MIN	2320	AC-FT	11080000		

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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 2,536.93 ft 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.--Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--26 years, 432 ft³/s, 313,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,500 ft³/s Jan. 16, 1974, gage height, 19.2 ft from floodmarks, present site and datum, on basis of slope-area measurement at peak flow; minimum daily, 16 ft³/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 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16	2145	2,300	8.01	Mar. 10	0600	3,720	9.04
Jan. 26	1930	*6,380	10.80	May 29	2000	5,760	10.45
Mar. 1	0415	2,320	8.03				

Minimum daily, 45 ft³/s Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	233	288	221	510	1930	1150	924	2710	1570	360	181
2	47	207	245	218	455	1730	1080	969	2260	1430	336	148
3	46	190	221	213	418	1330	960	1150	2450	1220	320	134
4	46	181	235	210	389	1100	860	1360	2550	1270	298	123
5	45	178	271	210	371	1130	806	1360	2550	1360	274	117
6	54	169	342	224	382	1050	782	1160	2600	1290	256	112
7	69	161	316	244	375	979	797	1040	2620	1060	247	109
8	64	156	275	288	437	970	863	1020	2650	876	241	105
9	63	150	253	302	665	1250	952	936	2680	793	234	102
10	60	145	234	298	571	3060	926	885	2640	772	221	98
11	59	138	221	292	557	2030	862	900	2510	814	209	98
12	57	134	220	296	1310	1770	789	1020	2460	920	198	96
13	56	130	215	302	1010	2630	736	1180	2260	995	191	94
14	55	125	208	302	779	1830	699	1380	2070	933	186	93
15	55	124	270	344	704	1370	691	1630	1950	774	179	91
16	55	122	1370	436	636	1150	754	1640	1840	684	177	89
17	55	137	1250	452	635	1030	908	1710	1780	624	172	88
18	55	158	613	829	1400	928	1030	2110	1680	584	162	87
19	54	159	459	710	982	865	1390	2590	1570	556	160	87
20	58	153	441	551	755	859	1480	2970	1520	532	165	85
21	126	150	573	463	657	852	1570	3410	1510	527	162	83
22	594	150	467	424	623	864	1840	3750	1490	531	186	93
23	834	156	383	498	720	835	1980	4060	1440	528	174	142
24	360	166	322	1330	780	830	1440	4330	1420	516	158	108
25	272	160	292	891	740	764	1130	4460	1410	481	171	99
26	293	157	278	3060	667	725	973	4490	1470	439	150	95
27	214	216	269	2520	666	728	915	4770	1530	421	140	91
28	283	380	253	1090	850	692	933	4700	1440	413	135	91
29	278	481	239	841	---	753	1030	5060	1380	413	129	91
30	307	382	232	684	---	1260	995	4320	1230	407	197	97
31	279	---	226	588	---	1410	---	3540	---	386	178	---
TOTAL	4841	5548	11481	19331	19044	38704	31321	74824	59670	24119	6366	3127
MEAN	156	185	370	624	680	1249	1044	2414	1989	778	205	104
MAX	834	481	1370	3060	1400	3060	1980	5060	2710	1570	360	181
MIN	45	122	208	210	371	692	691	885	1230	386	129	83
AC-FT	9600	11000	22770	38340	37770	76770	62130	148400	118400	47840	12630	6200
CAL YR 1982	TOTAL	167217	MEAN	458	MAX	3450	MIN	45	AC-FT	331700		
WTR YR 1983	TOTAL	298376	MEAN	817	MAX	5060	MIN	45	AC-FT	591800		

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, on side of intake structure of Trinity Dam on Trinity River, 9 mi north of Lewiston.

DRAINAGE AREA.--692 mi².

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, gross pool elevation. Dead storage, 10,000 acre-ft. Records, including extremes, represent total contents at 2400 hours.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,588,000 acre-ft Jan. 19, 1974, elevation, 2,378.32 ft; minimum since lake first filled, 222,400 acre-ft Nov. 9, 1977, elevation, 2,120.22 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,454,300 acre-ft July 6, elevation, 2,370.40 ft; minimum, 1,954,600 acre-ft Dec. 14, elevation, 2,337.79 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 1982 TO SEPTEMBER 1983
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2111600	2045300	1983400	2016900	2112100	2168400	2197400	2145100	2363600	2438900	2418500	2290400
2	2108100	2044000	1981500	2012900	2106900	2206600	2190900	2146400	2365100	2442700	2416600	2284900
3	2104500	2041500	1979000	2011100	2101200	2229000	2182600	2149600	2367300	2444900	2414800	2280800
4	2100900	2038200	1976600	2009200	2097400	2237600	2172600	2153200	2371700	2448600	2411400	2276800
5	2097800	2035600	1974400	2007000	2095000	2241600	2161400	2155800	2375000	2452600	2407300	2271500
6	2094500	2032700	1972800	2005200	2095000	2244000	2150000	2157000	2381200	2454300	2404800	2267000
7	2091300	2029400	1972100	2003400	2094700	2245200	2140500	2158100	2387500	2453000	2401400	2262100
8	2088300	2026800	1969100	2002000	2095600	2244400	2134400	2155800	2394400	2450800	2398000	2254900
9	2085200	2023700	1965700	2000600	2101800	2245500	2130600	2152200	2400100	2448600	2394400	2249800
10	2081800	2021000	1963200	1988300	2109200	2256300	2127000	2147500	2402900	2447000	2389200	2244100
11	2078600	2018100	1960900	1996700	2112300	2262200	2122000	2142900	2400800	2445500	2385700	2240100
12	2075500	2014400	1958900	1994400	2125800	2276500	2116800	2138100	2397500	2446000	2381000	2235900
13	2072100	2011400	1956400	1991800	2129800	2299400	2111400	2133900	2396100	2447500	2375500	2230200
14	2068900	2008000	1954600	1989900	2128300	2306500	2106900	2132200	2391000	2449600	2372600	2225500
15	2065600	2004800	1955600	1989600	2127000	2304700	2102700	2132200	2387100	2449100	2367600	2220400
16	2061800	2001900	1978800	1990000	2123200	2298600	2100000	2133000	2387800	2446700	2364400	2214300
17	2058100	2002000	1996400	1990300	2121600	2292100	2097800	2135000	2394100	2444000	2359300	2208900
18	2054700	2003200	2000600	1996200	2129100	2283800	2096600	2142600	2400600	2440900	2355300	2203100
19	2051000	2000600	2002300	2000600	2130600	2273500	2098300	2153400	2403200	2438100	2349200	2199400
20	2047600	1997300	2005700	2002600	2129100	2263900	2100000	2166400	2404800	2435300	2345200	2295700
21	2046600	1993800	2015300	2004200	2126200	2253400	2102900	2178800	2407600	2433600	2339300	2191600
22	2049400	1990600	2022300	2005200	2122600	2244700	2108600	2193800	2409700	2431800	2335000	2189600
23	2054300	1987300	2024500	2008600	2119600	2237200	2119800	2210400	2412800	2430000	2330100	2187700
24	2053500	1984100	2024900	2021000	2116900	2234100	2125900	2229300	2416100	2427000	2326700	2184500
25	2051500	1981600	2024600	2029600	2115700	2227200	2129400	2249400	2419000	2424000	2322400	2181300
26	2050000	1979000	2023900	2067100	2114100	2217800	2131300	2270300	2422300	2423000	2316900	2178100
27	2047200	1977900	2022900	2097200	2118300	2209400	2133700	2290500	2426700	2421800	2312300	2174400
28	2044100	1980600	2021700	2109900	2133400	2199100	2136800	2311000	2430200	2421000	2306200	2170900
29	2048200	1984400	2020200	2117500	---	2193900	2140700	2332800	2433000	2420700	2301000	2167300
30	2047800	1985100	2018500	2119800	---	2199400	2143500	2350300	2435000	2420500	2298500	2164100
31	2047000	---	2016700	2116800	---	2201700	---	2360900	---	2419700	2294100	---
MAX	2111600	2045300	2024900	2119800	2133400	2306500	2197400	2360900	2435000	2454300	2418500	2295700
MIN	2044100	1977900	1954600	1988300	2094700	2168400	2096600	2132200	2363600	2419700	2294100	2164100
a	2344.16	2339.91	2342.09	2348.96	2349.97	2354.47	2350.64	2364.67	2369.23	2368.30	2360.45	2352.00
b	-67800	-61900	+31600	+100100	+16600	+68300	-58200	+217400	+74100	-15300	-125600	-130000
c	2350	580	170	490	360	920	2550	5690	7170	8160	6940	4840

CAL YR 1982 b -73800

WTR YR 1983 b +49300

a Elevation, in feet NGVD, at end of month.

b Change in contents, in acre-feet.

c Evaporation, in acre-feet.

KLAMATH RIVER BASIN

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 furnished by Bureau of Reclamation, rounded to Geological Survey standards.

AVERAGE DISCHARGE.--20 years, 1,580 ft³/s, 1,145,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,910 ft³/s Feb. 11, 1970; no flow many days in many years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	1520	1630	1630	3260	0	3150	1190	3350	3260	2380	2720
2	1500	1020	1630	1630	3260	0	3150	2110	3350	3260	2380	2720
3	1500	1540	1630	1610	3260	0	3180	3170	2850	3260	2350	2720
4	1500	1540	1610	1630	3120	0	3180	2990	2780	3260	2770	2720
5	1500	1580	1630	1630	3120	0	3180	2630	2780	3260	2770	2770
6	1460	1600	1630	1630	3250	0	3180	2560	2780	3260	2770	2770
7	1500	1540	951	1630	3190	473	3180	1010	2770	3260	2770	2720
8	1480	1580	1710	1630	3350	691	3170	2540	2780	3220	2760	2770
9	1500	1580	1730	1630	3260	959	3170	3170	2790	3220	2760	2770
10	1500	1580	1630	1630	2320	2490	3210	3170	2790	3180	2890	2770
11	1500	1580	1630	1330	2830	2450	3170	3250	1540	3220	2760	2770
12	1500	1550	1630	1590	888	1880	3170	3250	1540	3310	2760	2770
13	1500	1550	1630	1630	2830	1400	3170	3250	1530	3110	2760	2770
14	1500	1550	1630	1630	3260	2670	3170	3250	2170	3170	2760	2770
15	1500	1570	1630	1630	3260	2730	3170	3250	2320	3220	2770	2800
16	1480	1570	1480	1610	3190	3180	3170	3250	3260	3260	2720	2770
17	1500	1450	1020	1610	3260	2540	3170	3250	3260	3180	2770	2760
18	1480	1550	1630	1610	3260	3180	3170	3250	2400	3260	2770	2760
19	1490	1570	1630	1610	3260	3180	3170	3250	2830	3260	2750	1640
20	1490	1610	1630	1610	3260	3180	3170	3250	3170	2850	2750	1640
21	1490	1590	1640	1610	3260	3180	2980	3250	3110	3260	2530	1640
22	1490	1610	1480	1610	3260	3180	2620	3230	3250	3260	2760	1660
23	1510	1630	1630	1610	3260	3190	2710	3230	3250	3350	2760	1680
24	1510	1630	1630	1620	3250	2870	2760	3250	3250	3350	1820	1680
25	1510	1630	1630	1620	3250	3190	2760	3250	3250	3350	2710	1700
26	1570	1610	1630	1640	3250	3190	2710	3260	3260	2720	2660	1700
27	1630	1630	1590	106	2850	3180	2710	3260	3260	2350	2760	1680
28	1560	1630	1610	0	478	3180	2710	3260	3260	2350	2760	1680
29	1560	1640	1630	0	---	3180	2200	3260	3260	2400	2770	1700
30	1520	1640	1630	1600	---	3190	1230	3220	3260	2460	2560	1700
31	1500	---	1630	2440	---	2850	---	3350	---	2440	2720	---
TOTAL	46730	46870	49051	45996	83546	65383	88840	92860	85450	95570	82980	69720
MEAN	1507	1562	1582	1484	2984	2109	2961	2995	2848	3083	2677	2324
MAX	1630	1640	1730	2440	3350	3190	3210	3350	3350	3350	2890	2800
MIN	1460	1020	951	0	478	0	1230	1010	1530	2350	1820	1640
AC-FT	92690	92970	97290	91230	165700	129700	176200	184200	169500	189600	164600	138300
CAL YR 1982	TOTAL	643595.00	MEAN	1763	MAX	3420	MIN	0	AC-FT	1277000		
WTR YR 1983	TOTAL	852996.00	MEAN	2337	MAX	3350	MIN	0	AC-FT	1692000		

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, and 0.8 mi northeast of Lewiston.

DRAINAGE AREA.--719 mi².

WATER-DISCHARGE RECORDS

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, National Geodetic Vertical Datum of 1929. See WSP 1929 for history of changes prior to July 7, 1964.

REMARKS.--Records good except those for periods of lagging communication, March to July, which are fair. Flow regulated by Clair Engle Lake (station 11525400) beginning in November 1960. Diversion to Judge Francis Carr powerplant (station 11525430) began in April 1963. Small diversions above head of Trinity Lake for irrigation, power, and placer mining.

AVERAGE DISCHARGE (adjusted for change in contents, evaporation, and diversion).--72 years, 1,753 ft³/s, 1,270,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,600 ft³/s Dec. 22, 1955, gage height, 27.3 ft from floodmarks, site and datum then in use; minimum, 23 ft³/s July 30, 1924. Maximum discharge since construction of Lewiston Dam in 1960, 14,400 ft³/s Jan. 18, 1974, gage height, 10.41 ft; minimum daily, 100 ft³/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, 8,780 ft³/s June 11, gage height, 8.52 ft; minimum daily, 267 ft³/s Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	309	307	629	293	2420	2410	6470	2610	6450	1590	445	418
2	268	306	920	292	2360	3110	6520	2000	6450	1600	446	397
3	267	306	913	292	1950	4000	6500	325	6350	1600	444	402
4	268	305	908	292	952	5410	6460	524	6350	1600	444	397
5	268	308	906	292	300	6490	6470	2140	6330	1720	445	396
6	269	308	895	292	286	6500	6480	2510	6300	1860	449	360
7	268	307	884	292	284	6230	5800	2980	6350	1850	443	330
8	291	308	879	293	284	6130	3830	2980	6330	1860	447	333
9	309	308	884	317	289	5480	2640	2990	6630	1850	444	335
10	310	308	606	801	441	3980	2630	3230	6990	1860	447	332
11	310	307	295	841	1210	3820	2660	3370	8390	1850	449	335
12	309	308	295	835	1210	3050	2650	3580	8560	1850	449	333
13	307	308	294	832	1670	4110	2310	3680	8470	1560	446	332
14	304	308	295	550	2430	4100	2060	3280	8510	557	448	333
15	305	308	298	293	2420	5440	1890	3240	7640	561	449	330
16	305	308	303	292	2430	6520	1230	3270	5650	1050	449	331
17	305	313	300	290	2430	6550	1230	2980	3120	1050	447	333
18	306	315	295	292	2410	6580	1220	744	2300	1060	448	325
19	306	592	295	294	2400	6590	1230	630	2380	1050	450	324
20	306	839	296	292	2410	6560	1240	722	2420	897	444	325
21	308	836	300	293	2410	6520	1240	3220	2410	612	449	329
22	307	837	294	292	2410	6560	1250	3600	2390	446	451	334
23	306	831	293	294	2400	6010	1260	3600	2120	447	452	332
24	305	603	291	295	2410	4240	1260	3580	1600	446	450	327
25	306	299	292	294	2420	4680	1250	3560	1580	445	448	325
26	308	298	291	300	2410	6540	1240	3620	1580	453	451	325
27	306	299	291	700	2410	6550	1250	3980	1590	452	448	324
28	307	303	292	1800	2440	6410	990	4520	1590	452	451	325
29	313	304	292	2430	---	6480	1630	4510	1600	451	447	325
30	310	303	292	2390	---	6540	2620	4500	1600	450	446	322
31	308	---	292	2420	---	6560	---	5320	---	448	448	---
TOTAL	9274	11890	14610	19775	49896	170150	85510	91795	140030	33977	13874	10269
MEAN	299	396	471	638	1782	5489	2850	2961	4668	1096	448	342
MAX	313	839	920	2430	2440	6590	6520	5320	8560	1860	452	418
MIN	267	298	291	290	284	2410	990	325	1580	445	443	322
AC-FT	18390	23580	28980	39220	98970	337500	169600	182100	277700	67390	27520	20370
MEAN a	741	927	2571	3757	5071	8724	4870	9583	8880	4063	1195	561
AC-FT a	45550	55180	158100	231000	281600	536400	289800	589200	528400	249800	73460	33380

CAL YR 1982 TOTAL 200821 MEAN 550 MAX 2670 MIN 267 AC-FT 398300 MEAN a 2274 AC-FT a 1646000
WTR YR 1983 TOTAL 651050 MEAN 1784 MAX 8560 MIN 267 AC-FT 1291000 MEAN a 4243 AC-FT a 3072000

a Adjusted for change in contents and evaporation from Clair Engle Lake and diversion to Judge Francis Carr powerplant.

KLAMATH RIVER BASIN

11525500 TRINITY RIVER AT LEWISTON, CA-Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1951 to September 1983 (discontinued).

CHEMICAL ANALYSES: Water years 1951-81.

WATER TEMPERATURES: Water years 1952-55, 1958 to September 1983 (discontinued).

SEDIMENT RECORDS: Water years 1955-61.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: September 1951 to September 1955, October 1957 to September 1958, July 1959 to September 1983 (discontinued).

INSTRUMENTATION.--Temperature recorder September 1951 to September 1955, October 1957 to September 1958, and since July 1959.

REMARKS.--Water temperatures affected by construction of Trinity Dam beginning in November 1960. Extremes are given below for two separate periods--Water years 1952-60, and 1961 to September 1983.

EXTREMES FOR PERIOD OF DAILY RECORD (See REMARKS above):

WATER TEMPERATURES (water years 1952-60): Maximum recorded, 26.0°C July 20, 21, 28, 29, 1960; minimum recorded, 1.0°C on several days in 1952.

(Water years 1961-83): Maximum recorded, 21.0°C on several days in 1977; minimum recorded, 3.0°C June 22, 23, 1962.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 12.0°C several days during September; minimum recorded, 6.5°C many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	HAX	MIN	HAX	MIN	HAX	MIN	HAX	MIN	HAX	MIN	HAX	MIN
1	9.5	8.0	8.5	7.5	7.5	7.0	---	---	7.5	7.0	7.0	7.0
2	9.0	8.0	8.5	7.5	7.0	7.0	---	---	7.0	7.0	7.0	7.0
3	9.5	8.0	8.5	7.5	7.0	7.0	---	---	7.0	7.0	7.0	7.0
4	9.0	8.0	8.5	7.5	7.5	7.0	---	---	7.0	7.0	7.5	7.0
5	9.5	8.0	8.0	7.5	7.5	7.5	---	---	7.0	7.0	7.5	7.5
6	8.5	8.0	8.0	7.5	8.0	7.5	---	---	7.0	7.0	7.5	7.0
7	9.0	8.0	8.0	7.5	7.5	7.5	---	---	7.0	6.5	7.0	7.0
8	9.0	8.0	7.5	7.5	7.5	7.0	---	---	7.0	6.5	7.0	7.0
9	9.0	8.0	8.0	7.0	7.0	6.5	---	---	7.0	6.5	7.0	7.0
10	9.5	8.0	8.0	7.0	7.0	6.5	---	---	7.0	6.5	7.5	7.0
11	9.5	8.0	7.5	7.0	7.0	6.5	7.0	7.0	7.0	6.5	7.5	7.0
12	9.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0	6.5	7.0	7.0
13	9.5	8.0	7.5	7.0	7.5	7.0	7.0	7.0	7.5	7.0	7.0	7.0
14	9.0	8.0	7.5	7.0	7.0	7.0	7.5	7.0	7.0	7.0	7.0	7.0
15	9.5	8.0	7.5	7.0	7.0	6.5	7.5	7.0	7.0	7.0	7.0	7.0
16	9.0	8.0	7.0	7.0	7.0	7.0	7.5	7.0	7.0	7.0	7.0	6.5
17	9.0	8.0	7.0	7.0	---	---	7.5	7.0	7.0	7.0	7.0	6.5
18	9.0	8.0	7.0	7.0	---	---	7.5	7.0	7.0	7.0	7.0	7.0
19	9.0	7.0	7.5	7.0	---	---	7.5	7.0	7.0	7.0	7.0	7.0
20	8.5	8.0	7.0	7.0	---	---	7.5	7.0	7.0	7.0	7.0	7.0
21	8.5	8.0	7.5	7.0	---	---	7.0	7.0	7.0	7.0	7.0	6.5
22	9.0	8.0	7.5	7.0	---	---	7.0	6.5	7.0	7.0	7.0	7.0
23	8.5	8.0	7.5	7.0	---	---	7.0	7.0	7.0	7.0	7.0	6.5
24	8.5	8.0	7.5	7.0	---	---	7.5	7.0	7.0	7.0	7.0	6.5
25	8.5	8.0	7.5	7.0	---	---	7.0	7.0	7.0	6.5	7.0	6.5
26	8.5	7.5	7.5	7.0	---	---	7.5	7.0	6.5	6.5	7.0	6.5
27	8.5	7.5	7.5	7.0	---	---	7.5	7.0	7.0	6.5	7.0	6.5
28	8.5	7.5	7.5	7.0	---	---	7.0	7.0	7.0	6.5	7.0	7.0
29	8.0	7.5	7.5	7.0	---	---	7.5	7.0	---	---	7.0	7.0
30	8.5	7.5	7.5	7.0	---	---	7.0	7.0	---	---	7.0	7.0
31	8.5	7.5	---	---	---	---	7.0	7.0	---	---	7.0	7.0
MONTH	9.5	7.0	8.5	7.0	---	---	---	---	7.5	6.5	7.5	6.5

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	7.0	8.0	7.5	8.0	7.5	9.0	8.5	11.5	10.0	10.5	9.5
2	7.0	7.0	8.5	7.5	8.0	7.5	9.5	8.5	11.5	10.5	10.5	9.5
3	7.0	7.0	9.5	8.0	8.5	8.0	9.5	8.5	11.5	10.5	10.5	9.5
4	7.0	7.0	9.0	8.5	8.0	8.0	9.5	8.5	11.5	10.0	12.0	9.5
5	7.5	7.0	8.5	8.5	8.0	8.0	9.5	9.0	11.5	10.0	12.0	9.5
6	7.5	7.0	8.5	7.5	8.5	8.0	9.5	8.5	11.5	10.0	11.5	10.0
7	7.5	7.5	8.0	7.5	8.5	8.0	9.5	9.0	11.0	10.5	11.5	10.0
8	7.5	7.5	8.5	7.5	8.5	8.0	9.5	9.0	11.5	10.0	11.0	10.0
9	8.0	7.5	8.0	7.5	8.5	8.0	9.0	8.5	11.5	10.0	11.0	10.0
10	7.5	7.5	8.0	7.5	8.5	8.0	9.5	8.5	11.0	10.0	11.0	10.0
11	7.5	7.5	8.0	7.5	8.0	7.5	9.5	8.5	11.0	10.0	11.0	10.0
12	8.0	7.5	---	---	8.0	8.0	9.5	8.5	11.5	10.0	11.5	10.0
13	8.0	7.5	---	---	8.5	8.0	10.0	9.0	11.0	10.0	11.5	10.5
14	8.0	7.5	---	---	8.5	8.0	10.5	9.0	11.0	10.0	12.0	10.5
15	8.0	7.5	---	---	8.0	8.0	10.5	9.5	11.0	10.0	11.5	10.5
16	8.5	7.5	8.5	8.0	8.5	8.0	10.5	9.5	11.0	10.0	11.5	10.5
17	8.0	7.5	8.5	8.0	8.5	8.0	10.5	9.5	11.5	10.0	11.5	10.5
18	8.0	7.5	9.5	8.0	9.0	8.5	10.0	9.0	11.5	10.0	12.0	10.5
19	8.0	7.5	9.5	8.0	9.0	8.5	10.0	9.0	10.5	10.0	12.0	10.5
20	8.0	7.5	10.0	8.5	9.0	8.5	10.0	9.0	10.5	10.0	11.5	10.5
21	8.0	7.5	9.0	8.5	9.0	8.5	11.0	9.0	10.5	9.5	11.0	10.5
22	7.5	7.5	9.0	8.0	9.0	8.5	10.5	9.0	10.5	9.5	11.0	10.5
23	7.5	7.0	8.5	8.0	9.0	8.5	11.0	9.5	11.0	10.0	11.5	10.5
24	7.5	7.0	8.5	8.0	9.0	8.5	11.0	9.5	10.5	10.0	11.5	10.5
25	7.5	7.0	8.5	8.0	9.5	8.5	11.0	9.5	10.5	10.0	11.5	10.5
26	7.5	7.0	8.5	8.0	9.5	8.5	11.0	10.0	11.0	10.0	11.5	10.5
27	7.5	7.5	9.0	8.0	9.5	8.5	11.0	10.0	10.5	10.0	11.5	10.5
28	7.5	7.0	8.5	8.0	9.5	8.5	11.5	10.0	10.5	9.5	11.5	10.5
29	7.5	7.0	8.5	8.5	9.5	8.5	11.0	10.0	10.0	9.5	11.5	10.5
30	7.5	7.5	8.5	8.0	9.5	8.5	11.0	10.0	10.0	10.0	11.0	10.5
31	---	---	8.5	8.0	---	---	11.0	10.0	9.5	9.5	---	---
MONTH	8.5	7.0	10.0	7.5	9.5	7.5	11.5	8.5	11.5	9.5	12.0	9.5

KLAMATH RIVER BASIN

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,049.73 ft National Geodetic Vertical Datum of 1929 (California State Highway Department bench mark).

REMARKS.--Records fair. No regulation; small diversions above station for domestic use.

AVERAGE DISCHARGE.--7 years (water years 1977-83), 55.8 ft³/s, 40,430 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,670 ft³/s Feb. 28, 1983; gage height, 10.11 ft from rating curve extended above 700 ft³/s on basis of slope-area measurement at gage-height 10.11 ft in gage well, 10.5 ft from flood marks; minimum daily discharge, 4.3 ft³/s many days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 26	1915	4,430	10.02	Feb. 28	2215	*4,670	10.11
Jan. 29	0230	662	7.57	Mar. 12	2400	741	7.60
Feb. 10	0215	532	7.33				

Minimum daily discharge, 12 ft³/s several days during October.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	21	47	48	216	1650	305	302	159	47	28	27
2	12	20	44	46	194	2420	282	284	152	45	27	26
3	13	19	43	45	178	1440	263	275	144	43	27	24
4	12	19	42	45	166	799	250	246	151	42	24	23
5	12	18	40	44	157	649	239	290	142	41	21	23
6	14	18	38	43	181	564	229	252	138	46	21	22
7	14	18	36	44	197	560	184	186	135	51	20	22
8	13	18	34	43	203	485	143	159	133	51	20	22
9	13	19	33	42	227	454	128	148	131	49	20	23
10	13	18	32	41	377	442	121	142	128	47	20	23
11	13	18	30	40	267	388	126	136	119	45	20	22
12	12	17	31	39	305	489	118	133	112	43	20	22
13	12	17	30	38	237	596	107	130	106	42	20	21
14	12	17	29	37	194	449	101	129	102	41	20	21
15	13	17	37	40	173	383	96	129	99	40	20	21
16	13	17	113	44	183	349	93	131	90	39	20	20
17	13	29	204	44	173	324	90	132	90	39	19	20
18	13	67	107	76	271	302	89	132	101	39	19	20
19	13	39	81	78	224	276	97	136	98	41	22	20
20	13	29	83	65	199	271	102	138	65	41	23	20
21	15	26	202	60	192	272	99	142	61	37	23	20
22	24	27	163	60	184	286	103	150	64	35	25	39
23	25	34	114	104	181	292	338	156	65	34	24	34
24	19	30	92	317	177	301	293	159	59	33	24	24
25	24	27	79	187	181	262	250	163	59	33	23	22
26	29	26	73	1580	188	259	188	167	60	33	23	21
27	20	31	66	885	527	286	210	172	59	32	22	21
28	18	53	61	541	1280	258	258	173	59	31	22	21
29	30	76	57	497	---	295	360	174	59	30	23	22
30	33	57	53	295	---	328	327	173	54	30	24	25
31	23	---	50	244	---	330	---	167	---	29	28	---
TOTAL	516	842	2144	5712	7232	16459	5589	5406	2994	1229	692	691
MEAN	16.6	28.1	69.2	184	258	531	186	174	99.8	39.6	22.3	23.0
MAX	33	76	204	1580	1280	2420	360	302	159	51	28	39
MIN	12	17	29	37	157	258	89	129	54	29	19	20
AC-FT	1020	1670	4250	11330	14340	32650	11090	10720	5940	2440	1370	1370
CAL YR 1982	TOTAL	18895.2	MEAN	51.8	MAX	282	MIN	9.3	AC-FT	37480		
WTR YR 1983	TOTAL	49506.0	MEAN	136	MAX	2420	MIN	12	AC-FT	98200		

WATER-QUALITY RECORDS

SEDIMENT CONCENTRATIONS: Maximum daily mean, 9,550 mg/L Mar. 2; minimum daily mean, 0 mg/L Nov. 7-9.
SEDIMENT DISCHARGE: Maximum daily, 65,200 tons Mar. 2; minimum daily, 0 ton Nov. 7-9.

[illegible]

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	13	1	.04	21	2	.11	47	12	1.5
2	12	1	.03	20	3	.16	44	9	1.1
3	13	1	.04	19	2	.10	43	7	.81
4	12	1	.03	19	2	.10	42	5	.57
5	12	2	.06	18	2	.10	40	4	.43
6	14	2	.08	18	1	.05	38	4	.41
7	14	3	.11	18	0	0	36	4	.39
8	13	2	.07	18	0	0	34	4	.37
9	13	2	.07	19	0	0	33	3	.27
10	13	1	.04	18	1	.05	32	2	.17
11	13	1	.04	18	1	.05	30	2	.16
12	12	1	.03	17	1	.05	31	3	.25
13	12	1	.03	17	1	.05	30	2	.16
14	12	2	.06	17	1	.05	29	1	.08
15	13	2	.07	17	2	.09	37	14	1.4
16	13	2	.07	17	2	.09	113	151	72
17	13	2	.07	29	24	2.1	204	248	159
18	13	2	.07	67	86	17	107	53	15
19	13	2	.07	39	15	1.6	81	30	6.6
20	13	2	.07	29	8	.63	83	35	7.8
21	15	3	.12	28	6	.42	202	485	396
22	24	4	.26	27	8	.58	163	205	90
23	25	3	.20	34	8	.73	114	65	20
24	19	2	.10	30	5	.41	92	17	4.2
25	24	11	1.2	27	4	.29	79	12	2.6
26	29	21	1.6	26	4	.28	73	10	2.0
27	20	6	.32	31	6	.50	66	7	1.2
28	18	3	.15	53	59	13	61	6	.99
29	30	20	1.6	76	40	8.9	57	5	.77
30	33	16	1.4	57	14	2.2	53	5	.72
31	23	4	.25	---	---	---	50	5	.68
TOTAL	516	---	8.35	842	---	49.69	2144	---	787.63

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	48	5	.65	216	635	370	1650	7400	37200
2	46	5	.62	194	460	241	2420	9550	65200
3	45	4	.49	178	355	171	1440	5850	22700
4	45	4	.49	166	320	143	799	2950	6360
5	44	4	.48	157	310	131	649	2200	3860
6	43	4	.46	181	400	195	564	1780	2710
7	44	3	.36	197	465	247	560	1790	2710
8	43	3	.35	203	510	280	485	1320	1730
9	42	3	.34	227	566	369	454	1230	1510
10	41	3	.33	377	1060	1160	442	1120	1340
11	40	3	.32	267	1010	728	388	810	849
12	39	3	.32	305	1120	922	489	1070	1560
13	38	2	.21	237	864	553	596	1590	2690
14	37	2	.20	194	560	293	449	814	987
15	40	3	.32	173	416	194	383	734	759
16	44	5	.59	183	480	237	349	685	645
17	44	6	.71	173	368	172	324	700	612
18	76	114	29	271	889	651	302	680	554
19	78	45	9.5	224	624	377	276	655	488
20	65	12	2.1	199	512	275	271	675	494
21	60	9	1.5	192	464	241	272	685	503
22	60	8	1.3	184	448	223	286	715	552
23	104	94	107	181	448	219	292	810	639
24	317	594	609	177	456	218	301	820	666
25	187	200	101	181	512	250	262	670	474
26	1580	7930	53900	188	588	328	259	660	462
27	885	4450	10600	527	1530	2300	286	740	571
28	541	2250	3290	1280	7720	47900	258	640	446
29	497	1870	2670	---	---	---	295	660	526
30	295	1180	940	---	---	---	328	720	638
31	244	860	567	---	---	---	330	695	619
TOTAL	5712	---	72834.64	7232	---	59388	16459	---	161054

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	305	500	412	302	490	400	159	82	35
2	282	460	350	284	300	230	152	74	30
3	263	410	291	275	220	163	144	70	27
4	250	380	256	246	230	153	151	66	27
5	239	375	242	290	470	368	142	62	24
6	229	370	229	252	260	177	138	58	22
7	184	370	184	186	175	88	135	56	20
8	143	370	143	159	165	71	133	56	20
9	129	375	130	148	158	63	131	55	19
10	121	370	121	142	155	59	128	56	19
11	126	365	124	136	155	57	119	55	18
12	118	335	107	133	154	55	112	52	16
13	107	270	78	130	152	53	106	49	14
14	101	240	65	129	148	52	102	47	13
15	96	220	57	129	145	51	99	46	12
16	93	225	56	131	142	50	90	37	9.0
17	90	225	55	132	139	50	90	40	9.7
18	89	220	53	132	136	48	101	37	10
19	97	340	89	136	136	50	98	40	11
20	102	360	99	138	138	51	65	25	4.4
21	99	320	86	142	140	54	61	24	4.0
22	103	300	83	150	141	57	64	24	4.1
23	338	730	764	156	142	60	65	23	4.0
24	293	540	427	159	143	61	59	23	3.7
25	250	360	243	163	144	63	59	23	3.7
26	188	305	155	167	138	62	60	23	3.7
27	210	390	221	172	131	61	59	22	3.5
28	258	450	313	173	124	58	59	22	3.5
29	360	977	952	174	116	54	59	22	3.5
30	327	730	645	173	106	50	54	21	3.1
31	---	---	---	167	94	42	---	---	---
TOTAL	5589	---	7030	5406	---	2911	2994	---	396.9

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	47	21	2.7	28	33	2.5	27	35	2.6
2	45	20	2.4	27	38	2.8	26	34	2.4
3	43	19	2.2	27	42	3.1	24	34	2.2
4	42	18	2.0	24	43	2.8	23	33	2.0
5	41	16	1.8	21	46	2.6	23	34	2.1
6	46	22	2.7	21	46	2.6	22	33	2.0
7	51	24	3.3	20	46	2.5	22	30	1.8
8	51	22	3.0	20	46	2.5	22	28	1.7
9	49	22	2.9	20	47	2.5	23	27	1.7
10	47	22	2.8	20	48	2.6	23	24	1.5
11	45	22	2.7	20	51	2.8	22	22	1.3
12	43	21	2.4	20	53	2.9	22	18	1.1
13	42	21	2.4	20	56	3.0	21	15	.85
14	41	21	2.3	20	52	2.8	21	13	.74
15	40	22	2.4	20	50	2.7	21	12	.68
16	39	22	2.3	20	50	2.7	20	12	.65
17	39	23	2.4	19	49	2.5	20	12	.65
18	39	28	2.9	19	48	2.5	20	12	.65
19	41	28	3.1	22	47	2.8	20	14	.76
20	41	28	3.1	23	49	3.0	20	14	.76
21	37	28	2.8	23	48	3.0	20	14	.76
22	35	28	2.6	25	48	3.2	39	38	6.1
23	34	28	2.6	24	48	3.1	34	47	4.6
24	33	28	2.5	24	46	3.0	24	29	1.9
25	33	28	2.5	23	44	2.7	22	26	1.5
26	33	28	2.5	23	45	2.8	21	25	1.4
27	32	30	2.6	22	45	2.7	21	22	1.2
28	31	31	2.6	22	43	2.6	21	18	1.0
29	30	30	2.4	23	39	2.4	22	16	.95
30	30	29	2.3	24	36	2.3	25	16	1.1
31	29	28	2.2	28	35	2.6	---	---	---
TOTAL	1229	---	79.4	692	---	84.6	691	---	48.65
YEAR	49506.0		304672.9						

KLAMATH RIVER BASIN

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1982	516.00	8.35	0	8
NOVEMBER ...	842.00	49.69	17	67
DECEMBER ...	2144.00	787.63	358	1150
JANUARY 1983	5712.00	72834.64	5990	78800
FEBRUARY ...	7232.00	59388.00	5400	64800
MARCH	16459.00	161054.00	20000	181000
APRIL	5589.00	7030.00	2840	9870
MAY	5406.00	2911.00	2180	5090
JUNE	2994.00	396.90	550	947
JULY	1229.00	79.40	24	103
AUGUST	692.00	84.60	0	85
SEPTEMBER ..	691.00	48.65	0	49
TOTAL	49506.00	304672.86	37359	341969

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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
JAN								
26...	1000	1100	6.0	6170	18300	--	8	11
26...	1300	1600	6.0	9760	42200	--	17	21
28...	1245	540	6.0	2230	3250	5	7	10
MAR								
05...	0930	697	7.0	2600	4890	--	7	8

DATE	.016 MM	.031 MM	.062 MM	.125 MM	.250 MM	.500 MM	1.00 MM	2.00 MM
JAN								
26...	17	24	32	41	60	75	86	94
26...	30	42	52	66	82	93	99	100
28...	14	19	25	35	55	76	91	99
MAR								
05...	12	16	22	30	41	65	84	96

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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								
30...	1315	6.5	1	57	--	0	2	7
30...	1320	6.5	1	57	--	0	1	3
30...	1325	6.5	1	57	--	0	1	5
JAN								
26...	1000	6.0	1	1100	9	18	46	64
26...	1045	6.0	1	1320	--	0	2	4
26...	1050	6.0	1	1320	2	7	22	49
26...	1055	6.0	1	1320	--	0	1	2
26...	1105	6.0	1	1320	4	12	32	60
28...	1300	8.5	1	540	0	1	11	30
28...	1305	8.5	1	540	1	2	29	54
FEB								
16...	1130	6.5	1	180	--	--	--	0
16...	1135	6.5	1	180	--	--	0	2
16...	1140	6.5	1	180	--	--	0	3
16...	1145	6.5	1	180	--	0	1	4
16...	1150	6.5	1	180	--	0	1	6
MAR								
13...	0945	7.0	1	573	--	0	1	5
13...	0950	7.0	1	573	--	0	2	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							
30...	18	25	30	35	54	100	--
30...	20	54	79	85	88	100	--
30...	19	45	64	66	66	100	--
JAN							
26...	73	91	100	--	--	--	--
26...	8	13	19	22	23	23	100
26...	63	80	97	100	--	--	--
26...	9	29	69	88	100	--	--
26...	80	92	100	--	--	--	--
28...	49	71	92	98	100	--	--
28...	74	90	98	100	--	--	--
FEB							
16...	1	2	3	4	4	4	100
16...	14	48	88	100	--	--	--
16...	19	55	91	100	--	--	--
16...	20	--	89	98	99	100	--
16...	25	44	54	55	55	55	100
MAR							
13...	20	53	90	99	100	--	--
13...	24	58	93	100	--	--	--

KLAMATH RIVER BASIN

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 and 2.3 mi downstream from Limekiln Gulch.

DRAINAGE AREA.--812 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1981 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,650 ft, from topographical map.

REMARKS.--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 ft³/s June 12, 1983, gage height, 10.45 ft; minimum daily, 311 ft³/s June 23, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,070 ft³/s June 12, gage height, 10.45 ft; minimum daily, 322 ft³/s Oct. 16-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	410	361	600	403	2970	5620	6940	3050	6460	1650	540	528
2	336	350	925	397	2830	6540	6840	2570	6410	1660	537	485
3	332	343	928	390	2490	7620	6770	807	6370	1610	536	481
4	329	341	928	386	1280	7620	6650	741	6400	1620	531	480
5	327	341	931	384	637	7520	6620	2010	6370	1700	527	475
6	333	341	928	382	649	7460	6580	2640	6340	1860	527	443
7	334	338	902	382	752	7220	6330	3010	6380	1830	523	360
8	331	336	878	391	800	6870	4620	3060	6390	1830	527	359
9	331	340	863	391	894	6500	3130	3040	6530	1820	525	359
10	331	341	735	726	1340	5040	3040	3170	6720	1820	521	359
11	331	339	373	832	1950	4860	3020	3340	7580	1840	520	359
12	331	336	369	822	1970	4160	3000	3470	8020	1870	520	361
13	329	336	369	821	2080	5990	2700	3690	7960	1690	518	364
14	327	336	361	679	3090	5410	2260	3340	7960	774	525	364
15	323	336	429	395	3090	5980	2160	3310	7570	619	518	364
16	322	336	1030	408	3060	6910	1370	3330	5990	992	521	364
17	322	403	1390	409	3020	6710	1270	3260	3610	1020	518	364
18	322	591	842	485	3340	6680	1280	1260	2470	1020	517	364
19	322	608	634	559	3160	6640	1290	996	2460	1020	518	364
20	322	883	574	497	3040	6640	1300	1010	2500	926	523	364
21	328	867	1070	474	2980	6680	1290	3030	2490	736	520	364
22	352	859	1240	472	2990	6770	1300	3730	2460	571	527	388
23	401	859	738	478	2950	6700	1650	3780	2310	570	522	406
24	361	756	640	916	2960	5200	1570	3770	1730	564	518	374
25	354	379	568	722	3040	5110	1420	3740	1670	559	517	364
26	388	357	503	2450	3060	6570	1360	3830	1660	553	515	359
27	360	363	481	2330	3870	6860	1340	4030	1640	546	517	359
28	350	456	455	2480	4280	6690	1230	4740	1630	545	512	359
29	435	630	434	3610	---	6840	1830	4760	1620	548	512	360
30	462	514	422	3290	---	7190	3100	4730	1610	548	526	375
31	384	---	411	3090	---	7240	---	5080	---	545	542	---
TOTAL	10820	13976	21951	30451	68572	199840	93260	96324	139310	35456	16220	11669
MEAN	349	466	708	982	2449	6446	3109	3107	4644	1144	523	389
MAX	462	883	1390	3610	4280	7620	6940	5080	8020	1870	542	528
MIN	322	336	361	382	637	4160	1230	741	1610	545	512	359
AC-FT	21460	27720	43540	60400	136000	396400	185000	191100	276300	70330	32170	23150
CAL YR 1982	TOTAL	246426	MEAN	675	MAX	2820	MIN	322	AC-FT	488800		
WTR YR 1983	TOTAL	737849	MEAN	2022	MAX	8020	MIN	322	AC-FT	1464000		

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SEDIMENT RECORD: April 1981 to current year.

EXTREMES FOR PERIOD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 981 mg/L Dec. 19, 1981; minimum daily mean, 0 mg/L May 19-22, 1982.

SEDIMENT DISCHARGE: Maximum daily, 12,600 tons Mar. 3, 1983; minimum daily, 0 tons May 19-22, 1982.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 613 mg/L Mar. 3; minimum daily mean, 1 mg/L many days in October and November.

SEDIMENT DISCHARGE: Maximum daily, 12,600 tons Mar. 3; minimum daily, 0.89 ton several days in October.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
ONCE-DAILY

[illegible]

11525655 TRINITY RIVER BELOW LIMELIKN GULCH, NEAR DOUGLAS CITY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	410	1	1.1	361	4	3.9	600	13	28
2	336	1	.91	350	3	2.8	925	24	60
3	332	1	.90	343	3	2.8	928	13	33
4	329	1	.89	341	2	1.8	928	10	25
5	327	2	1.8	341	2	1.8	931	9	23
6	333	2	1.8	341	1	.92	928	9	23
7	334	3	2.7	338	1	.91	902	8	19
8	331	1	.89	336	1	.91	878	8	19
9	331	1	.89	340	1	.92	863	7	16
10	331	1	.89	341	1	.92	735	4	7.9
11	331	1	.89	339	1	.92	373	2	2.0
12	331	1	.89	336	1	.91	369	2	2.0
13	329	1	.89	336	1	.91	369	2	2.0
14	327	2	1.8	336	1	.91	361	2	1.9
15	323	2	1.7	336	1	.91	429	6	6.9
16	322	2	1.7	336	1	.91	1030	162	695
17	322	2	1.7	403	3	3.3	1390	167	840
18	322	2	1.7	591	29	50	842	13	30
19	322	2	1.7	608	8	16	634	7	12
20	322	2	1.7	883	10	24	574	8	12
21	328	2	1.8	867	5	12	1070	62	232
22	352	2	1.9	859	4	9.3	1240	23	81
23	401	8	8.7	859	4	9.3	738	6	12
24	361	5	4.9	756	4	8.2	640	5	8.6
25	354	3	2.9	379	3	3.1	568	4	6.1
26	388	4	4.2	357	2	1.9	503	4	5.4
27	360	1	.97	363	2	2.0	481	3	3.9
28	350	1	.95	456	15	24	455	3	3.7
29	435	17	26	630	15	26	434	3	3.5
30	462	7	10	514	5	6.9	422	3	3.4
31	384	4	4.1	---	---	---	411	2	2.2
TOTAL	10820	---	93.86	13976	---	219.15	21951	---	2219.5

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	403	2	2.2	2970	210	1600	5620	599	9410
2	397	2	2.1	2830	189	1440	6540	570	10100
3	390	2	2.1	2490	159	1070	7620	613	12600
4	386	2	2.1	1280	79	273	7620	574	11800
5	384	2	2.1	637	50	86	7520	541	11000
6	382	2	2.1	649	48	84	7460	516	10400
7	382	2	2.1	752	56	114	7220	492	9590
8	391	2	2.1	800	52	112	6870	472	8760
9	391	2	2.1	894	65	169	6500	423	7420
10	726	7	14	1340	229	829	5040	298	4060
11	832	6	13	1950	348	1830	4860	248	3250
12	822	5	11	1970	210	1120	4160	190	2130
13	821	5	11	2080	201	1220	5990	260	4200
14	679	4	7.3	3090	241	2010	5410	198	2890
15	395	2	2.1	3090	144	1200	5980	230	3710
16	408	2	2.2	3060	112	925	6910	319	5950
17	409	2	2.2	3020	100	815	6710	308	5580
18	485	22	34	3340	212	1910	6680	300	5410
19	559	14	23	3160	190	1620	6640	291	5220
20	497	3	4.0	3040	159	1310	6640	279	5000
21	474	2	2.6	2980	144	1160	6680	269	4850
22	472	2	2.5	2990	132	1070	6770	260	4750
23	478	8	12	2950	118	940	6700	244	4410
24	916	131	337	2960	109	871	5200	178	2500
25	722	20	39	3040	104	854	5110	170	2350
26	2450	545	4950	3060	100	826	6570	239	4240
27	2330	542	3690	3870	318	3320	6860	185	3430
28	2480	447	2990	4280	351	4350	6690	163	2940
29	3610	343	3340	---	---	---	6840	160	2950
30	3290	248	2200	---	---	---	7190	165	3200
31	3090	234	1950	---	---	---	7240	157	3070
TOTAL	30451	---	19655.9	68572	---	33208	199840	---	177170

11525655 TRINITY RIVER BELOW LIMELIKN GULCH, NEAR DOUGLAS CITY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (HG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (HG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (HG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6940	146	2740	3050	137	1130	6460	164	2860
2	6840	135	2490	2570	112	824	6410	127	2200
3	6770	128	2340	807	43	94	6370	93	1600
4	6650	122	2190	741	39	78	6400	70	1210
5	6620	119	2130	2010	99	578	6370	55	946
6	6580	116	2060	2640	126	898	6340	49	839
7	6330	109	1860	3010	136	1110	6380	48	827
8	4620	79	985	3060	128	1060	6390	48	828
9	3130	74	625	3040	124	1020	6530	48	846
10	3040	69	566	3170	126	1080	6720	53	962
11	3020	64	522	3340	126	1140	7580	67	1370
12	3000	59	478	3470	129	1210	8020	64	1390
13	2700	54	394	3690	140	1390	7960	60	1290
14	2260	49	299	3340	132	1190	7960	58	1250
15	2160	43	251	3310	127	1130	7570	57	1170
16	1370	26	96	3330	121	1090	5990	55	890
17	1270	24	82	3260	114	1000	3610	47	458
18	1280	23	79	1260	79	269	2470	40	267
19	1290	23	80	996	83	223	2460	40	266
20	1300	22	77	1010	83	226	2500	40	270
21	1290	22	77	3030	211	1880	2490	40	269
22	1300	22	77	3730	213	2150	2460	40	266
23	1650	51	227	3780	161	1640	2310	39	243
24	1570	55	233	3770	126	1280	1730	34	159
25	1420	49	188	3740	111	1120	1670	29	131
26	1360	46	169	3830	107	1110	1660	23	103
27	1340	43	156	4030	120	1310	1640	19	84
28	1230	38	126	4740	187	2390	1630	17	75
29	1830	98	538	4760	164	2110	1620	16	70
30	3100	156	1310	4730	142	1810	1610	15	65
31	---	---	---	5080	151	2070	---	---	---
TOTAL	93260	---	23445	96324	---	35610	139310	---	23204
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (HG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (HG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (HG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1650	14	62	540	2	2.9	528	4	5.7
2	1660	13	58	537	2	2.9	485	4	5.2
3	1610	12	52	536	3	4.3	481	4	5.2
4	1620	11	48	531	4	5.7	480	4	5.2
5	1700	11	50	527	5	7.1	475	4	5.1
6	1860	10	50	527	6	8.5	443	5	6.0
7	1830	10	49	523	7	9.9	360	5	4.9
8	1830	9	44	527	5	7.1	359	5	4.8
9	1820	8	39	525	4	5.7	359	6	5.8
10	1820	8	39	521	3	4.2	359	6	5.8
11	1840	7	35	520	3	4.2	359	7	6.8
12	1870	7	35	520	3	4.2	361	7	6.8
13	1690	7	32	518	2	2.8	364	8	7.9
14	774	7	15	525	2	2.8	364	7	6.9
15	619	7	12	518	2	2.8	364	6	5.9
16	992	6	16	521	2	2.8	364	6	5.9
17	1020	6	17	518	2	2.8	364	5	4.9
18	1020	6	17	517	2	2.8	364	5	4.9
19	1020	6	17	518	3	4.2	364	4	3.9
20	926	5	13	523	3	4.2	364	4	3.9
21	736	5	9.9	520	4	5.6	364	4	3.9
22	571	4	6.2	527	4	5.7	388	5	5.2
23	570	4	6.2	522	5	7.0	406	5	5.5
24	564	3	4.6	518	5	7.0	374	6	6.1
25	559	3	4.5	517	6	8.4	364	6	5.9
26	553	2	3.0	515	6	8.3	359	5	4.8
27	546	2	2.9	517	6	8.4	359	5	4.8
28	545	2	2.9	512	6	8.3	359	4	3.9
29	548	3	4.4	512	5	6.9	360	6	5.8
30	548	3	4.4	526	5	7.1	375	8	8.1
31	545	3	4.4	542	5	7.3	---	---	---
TOTAL	35456	---	753.4	16220	---	171.9	11669	---	165.5
YEAR	737849		315916.2						

KLAMATH RIVER BASIN

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1982	10820.00	93.86	0	94
NOVEMBER ...	13976.00	219.15	0	219
DECEMBER ...	21951.00	2219.50	11	2230
JANUARY 1983	30451.00	19655.90	1090	20700
FEBRUARY ...	68572.00	33208.00	4380	37600
MARCH	199040.00	177170.00	112000	290000
APRIL	93260.00	23445.00	29400	52900
MAY	96324.00	35610.00	11600	47200
JUNE	139310.00	23204.00	69500	92700
JULY	35456.00	753.40	205	958
AUGUST	16220.00	171.90	0	172
SEPTEMBER ...	11669.00	165.50	0	165
TOTAL	737849.00	315916.21	228186	544938

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (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
JAN 28...	1600	2330	7.0	410	2580	10	12	18
FEB 16...	1600	3050	7.5	112	922	--	--	--
MAR 05...	1315	7350	7.0	536	10600	19	28	35
MAR 15...	0915	5080	7.0	163	2240	--	--	--
APR 28...	1130	1300	7.5	37	130	--	--	--
MAY 03...	1510	678	11.5	44	81	--	--	--

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
JAN 28...	25	34	45	65	89	98	100	--
FEB 16...	--	--	19	27	42	84	100	--
MAR 05...	41	48	55	66	79	92	98	100
MAR 15...	--	--	35	44	65	88	99	100
APR 28...	--	--	55	69	87	95	100	--
MAY 03...	--	--	86	91	96	100	--	--

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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								
30...	1040	7.5	1	529	--	--	--	0
30...	1045	7.5	1	529	--	0	1	2
30...	1050	7.5	1	529	--	0	1	1
30...	1055	7.5	1	529	0	1	2	5
30...	1100	7.5	1	529	--	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							
30...	1	1	2	4	8	100	--
30...	5	7	11	16	25	64	100
30...	6	13	16	16	27	100	--
30...	16	30	42	51	62	100	--
30...	7	10	14	16	22	22	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 mi².

WATER-DISCHARGE RECORDS

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 (H).

GAGE.--Water-stage recorder. Datum of gage is 944.05 ft National Geodetic Vertical Datum of 1929. Oct. 1, 1931, to Jan. 19, 1940, at site 2 mi upstream at different datum.

REMARKS.--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 ft³/s, 2,016,000 acre-ft/yr; 20 years (water years 1964-83), 1,794 ft³/s, 1,300,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,500 ft³/s Feb. 25, 1958, gage height, 30.50 ft, from rating curve extended above 40,000 ft³/s on basis of slope-area measurement at gage height 43.2 ft; minimum, 82 ft³/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 ft³/s, on basis of slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41,500 ft³/s Jan. 27, gage height, 21.52 ft; minimum daily, 449 ft³/s Oct. 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	581	925	2260	1810	7120	19500	16200	5870	9490	3420	1120	1670
2	517	786	2220	1730	6510	19000	14700	5630	9430	3600	1120	1140
3	461	712	2380	1670	6300	18200	13400	4190	9270	3020	1150	973
4	455	666	2770	1620	5800	16800	12000	3620	9420	2900	1190	902
5	453	633	3210	1650	5500	16000	10500	4240	9440	2890	1200	883
6	465	614	3400	1810	5390	14100	9700	5220	9440	2990	1200	885
7	507	598	2730	1980	6400	13700	8500	5210	9630	3210	1210	818
8	488	590	2290	2160	7700	13100	7500	5280	9670	3510	1210	751
9	473	586	2020	2110	8600	12600	6500	5090	9600	2890	1190	693
10	469	576	1880	2080	14500	11700	5700	4970	9710	1850	1140	662
11	468	567	1470	2300	14100	10500	5200	5150	9950	1860	1050	640
12	466	559	1260	2230	14100	10700	4700	5180	10400	1940	1020	655
13	459	554	1280	2160	14000	21400	4400	5610	10200	1910	1010	669
14	456	548	1180	2090	13200	16900	4200	5510	10200	1820	1030	669
15	455	543	1810	1770	12000	13500	4000	5630	10200	1780	1030	652
16	452	541	8330	1790	11300	13700	3750	5740	8760	1660	1040	627
17	449	891	16700	1850	10000	12800	3400	5710	6830	1440	1030	621
18	449	3150	6760	2460	13200	12100	3500	4850	4820	1390	983	613
19	450	2610	4540	4060	13800	11400	3600	4280	4260	1440	942	600
20	452	1910	3970	3290	12000	10900	3750	4660	4180	1390	1010	588
21	467	1690	6590	2850	10500	10900	3800	6030	4110	1360	973	574
22	797	1570	8460	2650	9800	11100	3800	8030	4070	1260	967	577
23	1320	1550	5910	2620	9500	11300	4500	8260	4250	1270	926	757
24	1010	1560	4280	6430	9200	11100	5420	8540	3510	1310	895	727
25	728	1220	3420	5860	9100	10300	5200	8790	3200	1420	883	654
26	978	977	2960	20500	9400	10900	4700	8630	3270	1460	897	622
27	838	988	2660	29200	11800	12200	4270	8770	3280	1380	888	609
28	693	1400	2410	14400	14400	11700	4440	9810	3250	1360	853	598
29	1400	3950	2220	11700	---	12100	4520	10100	3200	1310	846	589
30	2710	3140	2040	9580	---	17300	5780	9430	3140	1300	1660	605
31	1270	---	1920	8060	---	19300	---	8590	---	1200	2030	---
TOTAL	21636	36604	115330	156470	285220	426800	191630	196620	210180	61540	33693	22023
MEAN	698	1220	3720	5047	10190	13770	6388	6343	7006	1985	1087	734
MAX	2710	3950	16700	29200	14500	21400	16200	10100	10400	3600	2030	1670
MIN	449	541	1180	1620	5390	10300	3400	3620	3140	1200	846	574
AC-FT	42920	72600	228800	310400	565700	846500	380100	390000	416900	122100	66830	43680
CAL YR 1982	TOTAL	818947	MEAN	2244	MAX	16700	MIN	449	AC-FT	1624000		
WTR YR 1983	TOTAL	1757746	MEAN	4816	MAX	29200	MIN	449	AC-FT	3486000		

11527000 TRINITY RIVER NEAR BURNT RANCH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.

CHEMICAL ANALYSES: Water years 1959-66.

WATER TEMPERATURES: Water years 1962-64, 1967, 1969 to September 1983 (discontinued).

SEDIMENT RECORDS: Water year 1968.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1961 to September 1964, October 1966 to September 1967, October 1968 to September 1983 (discontinued).

REMARKS.--Differences between recorder values before adjustment and field measurement values exceeded $\pm 1.0^{\circ}\text{C}$ for water temperature at times during the year.

INSTRUMENTATION.--Temperature recorder since October 1961.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 27.0°C Aug. 17-19, 24, 1967, Aug. 24, 1982; minimum recorded, 0.0°C Dec. 7-11, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 23.5°C Sept. 13, 15; minimum recorded, 3.5°C on several days during the year.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	11.0	9.5	8.5	7.0	7.0	4.0	3.5	7.5	6.0	---	---
2	15.5	11.0	9.0	8.5	7.0	7.0	6.0	4.0	7.0	5.5	---	---
3	15.0	11.5	9.5	7.5	8.0	7.0	7.0	6.0	7.0	6.0	---	---
4	14.0	11.0	10.0	8.5	9.0	8.0	7.0	7.0	7.0	6.0	---	---
5	14.0	10.0	10.0	9.0	10.0	9.0	7.5	7.0	9.5	7.0	8.5	8.5
6	14.0	12.0	9.5	9.5	10.0	8.0	8.0	7.5	9.0	9.0	8.5	7.5
7	13.0	11.0	9.5	8.5	8.0	5.5	8.0	8.0	9.0	9.0	7.5	7.5
8	15.0	11.5	8.5	7.5	6.0	5.5	8.5	6.5	9.0	9.0	8.5	7.5
9	14.5	11.5	8.0	7.5	6.0	5.5	6.5	5.5	9.0	8.0	9.5	7.5
10	15.0	11.5	7.5	6.5	5.5	4.5	5.5	5.0	9.0	8.0	8.5	8.5
11	15.0	12.0	7.5	6.0	5.5	5.0	5.5	5.0	9.0	8.0	8.5	7.5
12	15.0	12.0	7.5	6.5	5.5	5.5	5.5	5.0	8.0	8.0	8.5	7.5
13	15.0	12.0	6.5	5.0	6.5	5.5	5.5	4.0	8.0	8.0	8.0	7.0
14	15.0	12.5	5.0	4.0	6.5	6.5	6.0	4.5	8.0	8.0	7.5	6.5
15	15.0	12.5	5.5	3.5	6.5	6.5	8.0	6.0	9.0	8.0	8.0	6.0
16	14.0	12.0	5.5	3.5	7.5	6.5	8.0	7.0	9.0	9.0	8.0	6.5
17	13.0	11.5	6.5	5.5	7.5	7.5	9.0	8.0	9.0	8.5	7.5	6.5
18	13.0	11.0	7.0	6.5	7.5	7.5	9.0	7.0	8.5	6.5	8.5	6.5
19	13.0	12.0	7.5	7.0	7.5	7.5	8.0	8.0	6.5	6.0	8.5	7.5
20	---	---	8.0	7.5	7.5	7.5	9.0	8.0	6.0	6.0	9.0	8.0
21	13.0	13.0	8.5	7.5	7.5	6.5	10.0	9.0	6.0	6.0	8.0	7.5
22	13.5	12.5	8.0	8.0	6.5	5.5	10.0	9.5	8.0	6.0	8.0	7.5
23	13.5	13.5	9.0	8.0	6.0	5.5	9.5	7.0	8.5	8.0	7.5	7.5
24	13.5	13.5	9.0	7.0	6.0	5.5	9.0	9.0	9.5	8.5	7.5	6.0
25	13.5	12.5	8.0	8.0	6.0	6.0	9.0	9.0	---	---	8.5	6.5
26	12.5	10.5	8.0	8.0	7.0	6.0	9.0	8.5	---	---	7.5	6.5
27	10.5	9.5	9.0	8.0	7.0	6.0	9.0	8.0	---	---	7.5	6.5
28	9.5	9.5	9.0	9.0	6.0	5.0	9.0	8.0	---	---	7.5	7.0
29	9.5	9.5	9.0	9.0	5.0	4.0	8.0	7.5	---	---	7.5	7.5
30	9.5	9.0	9.0	7.0	4.0	4.0	8.0	7.0	---	---	8.5	7.5
31	10.0	9.5	---	---	4.0	3.5	8.0	6.5	---	---	9.5	8.0
MONTH	15.5	9.0	10.0	3.5	10.0	3.5	10.0	3.5	9.5	5.5	9.5	6.0

11527000 TRINITY RIVER NEAR BURNT RANCH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.0	10.0	10.0	11.0	9.5	13.5	12.0	20.5	17.0	16.5	13.5
2	9.5	8.0	11.0	10.0	11.5	8.5	13.5	10.0	20.5	17.0	19.5	14.5
3	8.5	8.0	11.0	11.0	12.5	8.5	15.5	11.5	20.5	16.5	20.5	15.5
4	8.0	6.5	11.0	11.0	12.5	8.5	16.0	12.0	19.5	16.5	21.5	16.5
5	9.0	6.0	11.0	9.5	13.5	9.5	16.5	12.5	20.5	16.0	23.0	18.0
6	10.0	6.5	9.5	8.5	13.5	9.5	14.5	12.5	22.0	16.5	22.5	18.0
7	9.5	6.0	8.5	9.5	13.5	10.5	12.5	11.5	21.5	18.0	22.0	18.0
8	10.0	7.0	8.5	8.5	13.5	10.5	13.5	10.5	21.5	18.0	20.0	16.5
9	10.0	8.0	8.5	7.5	13.5	8.5	14.5	10.5	21.5	17.0	20.5	16.0
10	10.0	8.0	9.5	7.5	10.5	9.5	16.0	10.5	20.5	17.5	21.0	15.0
11	9.0	7.0	9.5	8.5	11.0	8.5	16.5	12.5	21.5	16.0	22.5	16.0
12	8.0	7.0	10.5	9.5	12.0	8.5	17.5	13.0	22.5	17.5	23.0	18.0
13	9.0	7.0	11.5	10.5	13.5	8.5	17.5	14.0	21.5	18.5	23.5	18.5
14	9.0	6.0	11.5	10.5	13.5	9.5	16.5	14.0	22.0	17.0	23.0	17.5
15	9.0	7.0	10.5	10.5	12.5	9.5	16.5	12.5	22.0	16.5	23.5	19.0
16	10.0	7.0	11.5	9.5	12.5	9.0	16.5	12.5	23.0	16.0	22.5	19.5
17	11.0	8.0	11.5	10.5	13.0	10.0	15.5	13.0	23.0	18.0	22.5	17.5
18	11.0	10.0	12.5	11.5	11.0	8.5	14.0	12.0	22.5	18.0	21.5	16.5
19	10.5	8.0	14.0	11.0	12.0	10.0	14.5	12.5	18.0	17.0	21.5	15.5
20	10.5	10.0	14.0	11.0	12.0	10.0	16.5	12.0	19.0	16.0	21.5	14.5
21	10.5	10.0	14.0	10.0	13.0	10.5	17.0	13.0	20.0	17.0	18.5	15.5
22	11.0	10.0	14.0	11.0	13.0	9.0	19.0	14.5	19.0	16.5	17.5	15.5
23	11.0	9.5	13.5	11.0	13.0	11.0	19.0	15.5	20.0	16.5	18.5	16.5
24	10.0	8.5	14.0	11.0	14.0	11.0	17.0	16.0	20.5	16.5	21.5	17.5
25	---	8.0	14.0	10.0	14.5	11.5	16.0	15.0	20.5	17.5	21.5	17.5
26	---	8.0	14.0	10.0	14.0	11.0	17.0	15.5	21.0	17.5	21.0	17.0
27	---	8.0	14.0	11.0	15.0	12.0	18.0	15.0	20.0	16.5	20.0	16.5
28	---	8.0	14.5	12.0	14.0	11.5	19.0	16.0	21.5	16.5	20.5	16.5
29	---	8.5	14.0	11.0	14.0	11.5	20.5	16.0	18.5	16.5	18.5	16.5
30	---	10.0	13.0	11.5	13.0	11.0	21.0	17.0	16.5	15.0	17.5	15.5
31	---	---	11.5	10.0	---	---	20.0	17.0	15.0	14.5	---	---
MONTH	11.0	6.0	14.5	7.5	15.0	8.5	21.0	10.0	23.0	14.5	23.5	13.5

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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 1,211.37 ft National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--18 years, 1,543 ft³/s, 1,118,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73,300 ft³/s Jan. 26, 1983, gage height, 28.00 ft, from rating curve extended above 23,000 ft³/s on basis of flood-routing study at gage height 30.45 ft; minimum daily, 14 ft³/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 ft³/s, on basis of flood-routing study.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 17	Unknown	33,500	19.68	Mar. 1	0445	21,200	15.86
Jan. 26	2100	*73,300	28.00	Mar. 13	0315	24,800	17.09
Feb. 10	0915	20,500	15.63	Mar. 31	0130	15,900	13.85
Feb. 19	Unknown	19,500	Unknown				

Minimum daily, 91 ft³/s several days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	379	3080	1550	4420	17900	9490	4170	1780	554	254	405
2	95	301	2340	1500	3950	13600	8450	3840	1640	568	244	307
3	93	259	2290	1450	3580	11400	6910	3580	1550	532	238	252
4	92	235	2680	1400	3240	9140	6030	3480	1480	509	235	226
5	91	221	2740	1500	3060	7630	5570	3520	1400	493	230	211
6	95	208	2560	1600	3540	6820	5200	3370	1350	475	223	199
7	119	200	2060	1700	5440	7770	4930	3120	1350	465	217	187
8	121	196	1690	1680	8430	7450	4700	2980	1400	461	210	180
9	117	195	1450	1580	9070	7040	4520	2830	1300	452	205	178
10	109	191	1280	1500	17200	7850	4240	2660	1280	437	202	177
11	104	182	1140	1480	11200	6880	3950	2460	1270	418	199	175
12	101	178	1070	1420	13500	9530	3710	2390	1190	401	196	171
13	97	175	1240	1400	12000	20000	3480	2390	1100	388	192	168
14	95	173	1130	1340	8920	15000	3290	2380	1030	379	204	162
15	93	170	3380	1300	7810	10800	3100	2470	983	369	201	158
16	91	170	11100	1400	7730	7400	2950	2440	940	363	190	155
17	91	459	21000	1500	7170	6700	2910	2340	907	351	183	152
18	91	4390	7700	3000	14000	6350	2920	2310	873	359	176	149
19	91	3260	5000	5800	15000	5830	3010	2350	835	406	177	146
20	91	1800	4300	4150	12000	5460	3060	2400	786	381	205	143
21	101	1230	6000	3550	8700	5430	3080	2560	749	357	215	140
22	133	1040	5800	3410	7600	5650	3050	2560	707	336	223	145
23	205	1190	5000	3800	6800	5760	4110	2600	668	320	230	196
24	238	1220	3500	11000	6300	7340	4130	2580	645	309	221	189
25	203	1000	3000	7850	6000	6760	3870	2520	617	303	216	178
26	325	819	2600	42400	6600	6070	3710	2390	591	298	210	167
27	328	898	2300	36500	9800	6600	4040	2360	578	295	203	161
28	242	2040	2100	12500	15700	6060	4690	2360	562	286	195	158
29	459	6010	1900	7670	---	6530	4720	2280	546	280	193	157
30	1160	4500	1750	5920	---	11100	4480	2120	526	270	415	155
31	588	---	1620	5030	---	13200	---	1930	---	263	520	---
TOTAL	5955	33289	114800	177880	238760	271050	132300	83740	30633	12078	7022	5547
MEAN	192	1110	3703	5738	8527	8744	4410	2701	1021	390	227	185
MAX	1160	6010	21000	42400	17200	20000	9490	4170	1780	568	520	405
MIN	91	170	1070	1300	3060	5430	2910	1930	526	263	176	140
AC-FT	11810	66030	227700	352800	473600	537600	262400	166100	60760	23960	13930	11000
CAL YR 1982	TOTAL	712205	MEAN	1951	MAX	21000	MIN	90	AC-FT	1413000		
WTR YR 1983	TOTAL	1113054	MEAN	3049	MAX	42400	MIN	91	AC-FT	2208000		

KLAMATH RIVER BASIN

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 mi².

WATER-DISCHARGE RECORDS

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. Datum of gage is 274.82 ft 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.--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 ft³/s, 4,071,000 acre-ft/yr; 20 years (water years 1964-83). 5,131 ft³/s, 3,717,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 231,000 ft³/s Dec. 22, 1964, gage height, 57.0 ft present site and datum, from floodmarks; minimum, 162 ft³/s Oct. 4, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 22,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 17	0215	70,200	34.79	Mar. 1	1300	56,400	31.37
Dec. 22	0015	42,600	29.29	Mar. 13	1330	63,500	32.87
Jan. 27	0200	*122,000	43.16	Mar. 25	0130	28,200	24.83
Feb. 10	1400	48,300	30.54	Mar. 31	0645	53,600	30.77
Feb. 18	1800	42,900	29.14				

Minimum daily, 663 ft³/s Oct. 18-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	824	2180	9960	6160	20000	50300	42500	13000	12500	4640	1940	3740
2	796	1690	8160	5770	18000	48300	38100	12300	12400	5760	1890	2480
3	694	1450	8690	5580	16300	47700	33000	10900	12100	4630	1830	1880
4	675	1310	10400	5400	14300	39200	28700	9890	12200	4390	1790	1630
5	667	1220	11100	5640	12300	33900	25300	10500	12100	4370	1710	1500
6	706	1160	10900	6300	11700	30000	22800	11600	12100	4560	1610	1430
7	814	1120	8810	6710	15500	29200	20900	11100	12100	4390	1560	1360
8	804	1100	7150	6870	20600	28300	18500	11300	12300	4160	1580	1270
9	758	1070	6140	6510	23000	26800	15500	11000	12100	3960	1610	1210
10	734	1050	5460	6230	42300	28000	13200	10500	12100	3840	1570	1170
11	717	1020	4810	6110	40200	25700	12200	10400	12100	3890	1500	1140
12	705	991	4150	5870	40300	26300	11600	10300	12300	4070	1440	1120
13	696	970	4600	5660	40800	54900	11000	10800	12000	4290	1420	1130
14	684	954	4300	5450	34200	47600	10300	10800	12000	4020	1410	1120
15	675	938	10600	5110	30200	37500	9830	11000	11900	2840	1420	1100
16	669	934	38400	5350	29700	33000	9340	11100	10900	2510	1400	1070
17	667	2200	52900	5560	26800	29500	8840	11000	9320	2780	1400	1050
18	663	5000	26800	9370	36500	26400	9050	10500	6700	2740	1350	1040
19	663	11800	19100	14800	37300	23800	9370	9790	5780	2830	1300	1030
20	663	7030	17100	10600	30500	21800	9770	10400	5610	2770	1370	1010
21	678	5250	31600	9220	26600	21100	9870	11600	5540	2530	1420	989
22	865	4340	33000	8580	25800	21600	9830	14000	5510	2300	1400	991
23	1760	4040	22700	9100	24400	23000	12400	14300	5640	2100	1380	1190
24	1880	4110	16500	23100	24100	26200	14800	14600	5160	2120	1320	1280
25	1280	3650	12400	20700	23800	26400	12800	14800	4670	2100	1290	1150
26	1610	2600	10400	63400	24300	24300	11700	14200	4650	2010	1270	1090
27	1740	2500	9350	92700	29800	26000	11400	14000	4660	1910	1270	1050
28	1330	4020	8580	44400	36100	24800	12800	14900	4600	1870	1240	1030
29	3250	18200	7900	34100	---	25600	12600	15300	4520	1870	1260	1020
30	7310	13700	7190	27600	---	41500	13100	14200	4400	1960	3090	1000
31	3460	---	6670	22900	---	50700	---	12500	---	2010	6070	---
TOTAL	39437	107597	435820	490850	755400	999400	481100	372580	269960	100220	52110	39270
MEAN	1272	3587	14060	15830	26980	32240	16040	12020	8999	3233	1681	1309
MAX	7310	18200	52900	92700	42300	54900	42500	15300	12500	5760	6070	3740
MIN	663	934	4150	5110	11700	21100	8840	9790	4400	1870	1240	989
AC-FT	78220	213400	864400	973600	1498000	1982000	954300	739000	535500	198800	103400	77890
CAL YR 1982	TOTAL	2475286	MEAN	6780	MAX	52900	MIN	663	AC-FT	4910000		
WTR YR 1983	TOTAL	4143744	MEAN	11380	MAX	92700	MIN	663	AC-FT	8219000		

11530000 TRINITY RIVER AT HOOPA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to September 1983 (discontinued).

CHEMICAL ANALYSES: Water years 1951-81.

WATER TEMPERATURES: Water years 1957 to September 1983 (discontinued).

SEDIMENT RECORDS.--Water years 1955-79.

Prior to October 1964, published as "near Hoopa."

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1956 to September 1983 (discontinued).

SEDIMENT RECORDS: November 1956 to September 1979.

REVISED RECORDS.--WDR CA-70-2: 1969, sediment.

INSTRUMENTATION.--Temperature recorder from March 1964 to September 1983.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 28.0°C July 16, 1977; minimum recorded, 1.5°C Jan. 9, 1977, Jan. 1, 1979.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 23.5°C Aug. 13; minimum recorded, 5.5°C on several days during December and January.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	14.5	12.0	11.5	10.0	9.0	5.5	---	8.5	8.0	9.0	8.5
2	15.5	14.5	11.5	10.5	9.0	8.5	6.5	5.5	8.5	7.5	9.0	8.5
3	15.5	14.0	12.0	11.0	9.0	8.5	7.5	6.5	8.5	7.5	9.0	8.5
4	15.5	13.5	12.0	10.5	9.5	8.5	8.0	7.0	8.0	7.5	9.5	9.0
5	15.5	13.0	12.5	11.5	10.0	8.5	7.5	7.0	8.0	7.5	9.5	9.0
6	15.0	13.5	12.5	11.5	10.0	9.0	7.5	7.0	8.0	8.0	9.5	8.5
7	14.5	12.5	12.0	10.5	9.0	8.0	8.0	7.5	8.0	7.0	9.5	9.0
8	14.5	13.0	11.5	10.5	8.0	7.0	8.5	7.5	8.0	7.0	9.5	9.0
9	15.0	13.0	11.0	10.5	7.0	6.5	7.5	7.0	8.0	7.5	10.0	9.5
10	15.0	13.5	1.0	9.5	7.0	6.5	7.0	6.0	8.0	7.5	10.0	10.0
11	15.0	13.5	10.0	9.0	7.0	6.5	6.5	5.5	9.0	8.0	10.0	9.5
12	15.5	13.5	10.0	9.0	7.0	6.5	6.5	6.0	9.0	9.0	9.5	9.0
13	15.5	14.0	9.5	9.0	7.5	7.0	6.0	6.0	9.0	8.5	9.0	9.0
14	15.0	14.0	9.5	8.0	7.5	7.5	6.0	5.5	9.0	8.5	9.0	8.5
15	16.0	14.5	8.5	7.0	8.0	7.5	6.5	5.5	9.0	8.5	8.5	8.0
16	16.0	14.5	8.5	7.0	9.0	8.0	7.5	6.5	8.5	8.0	9.0	8.0
17	16.0	14.5	8.5	8.0	9.0	8.5	8.5	7.5	9.5	8.5	9.0	8.0
18	15.5	14.0	9.0	9.0	8.5	8.0	8.5	8.0	9.5	9.0	9.5	8.5
19	14.5	13.5	10.0	9.0	9.0	8.0	8.5	7.0	9.0	8.5	9.5	9.0
20	14.5	13.5	9.5	9.0	9.0	8.5	7.0	6.5	9.0	8.5	9.5	9.0
21	14.5	13.5	9.5	10.0	8.5	8.0	7.0	6.5	9.0	8.5	9.5	9.0
22	15.0	13.5	10.5	10.0	8.0	7.0	7.0	6.5	9.5	9.0	9.0	8.0
23	15.5	14.0	10.5	10.0	7.0	6.5	7.5	7.0	10.0	9.5	8.5	8.0
24	15.5	14.0	10.5	10.0	7.5	7.0	8.0	7.5	9.5	9.0	8.0	7.5
25	15.0	14.0	10.0	9.5	7.0	6.5	8.5	8.0	9.0	7.5	9.0	7.5
26	14.5	13.0	10.0	9.0	7.5	7.0	8.5	8.0	8.0	7.0	8.5	8.0
27	13.5	12.5	10.5	9.0	8.0	7.5	9.0	8.5	8.0	7.5	8.5	8.0
28	13.0	11.5	10.5	10.0	7.5	6.5	9.0	8.5	8.5	8.0	8.5	8.5
29	12.5	11.5	10.5	10.0	6.5	5.5	8.5	8.0	---	---	9.0	8.5
30	12.0	11.0	10.5	9.5	6.0	5.5	8.5	8.0	---	---	9.0	8.5
31	12.5	11.5	---	---	5.5	---	8.5	8.0	---	---	9.0	8.5
MONTH	16.0	11.0	12.5	7.0	10.0	5.5	9.0	5.5	10.0	7.0	10.0	7.5

11530000 TRINITY RIVER AT HOOPA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.5	11.0	10.0	12.5	11.5	16.0	15.0	22.5	20.0	17.0	15.5
2	9.0	8.5	12.0	10.5	13.0	11.5	16.0	14.0	22.5	19.5	18.5	15.5
3	8.5	8.0	---	---	13.5	12.0	17.5	14.0	22.0	19.5	19.5	16.5
4	9.0	8.0	---	---	13.5	12.5	19.0	15.5	21.5	19.5	20.5	17.5
5	9.0	8.5	---	---	13.5	12.5	19.5	16.5	22.0	19.0	21.5	18.0
6	9.5	8.5	---	---	14.0	12.5	18.0	16.5	23.0	19.0	22.0	18.5
7	10.0	9.0	---	---	14.0	13.0	16.5	15.0	22.5	20.0	21.0	18.5
8	10.5	9.5	---	---	14.0	13.0	17.5	14.5	23.5	20.5	19.5	17.5
9	10.0	9.0	---	---	13.5	13.0	17.5	14.5	22.5	20.0	19.0	16.5
10	9.5	8.5	---	---	13.5	12.0	18.5	15.0	22.5	20.0	19.5	16.5
11	9.5	8.5	---	---	13.0	11.5	19.0	15.5	22.5	19.0	20.0	17.5
12	9.5	8.5	---	---	13.0	12.5	19.5	16.5	23.0	19.5	21.0	18.5
13	9.5	8.0	---	---	14.0	12.5	20.5	17.0	23.5	20.0	21.5	19.5
14	10.0	8.5	---	---	13.5	12.5	20.0	17.5	23.0	20.5	22.0	19.5
15	10.5	8.5	---	---	14.0	12.5	20.0	17.0	22.5	19.5	21.5	19.5
16	11.0	9.0	---	---	14.5	13.0	19.5	16.5	22.5	19.5	21.5	19.5
17	11.0	10.0	---	---	14.5	13.5	19.0	16.5	23.0	20.0	21.0	18.5
18	11.0	9.5	---	---	15.5	13.0	17.5	16.0	23.0	20.5	20.5	18.0
19	11.0	10.5	---	---	16.0	13.0	17.0	15.5	22.0	20.0	20.5	18.0
20	11.0	10.5	---	---	16.5	14.0	18.5	15.5	21.5	19.0	19.5	17.0
21	11.5	10.5	---	---	16.5	14.0	19.5	15.5	22.0	19.0	18.0	17.0
22	11.0	10.0	---	---	17.0	14.0	21.0	17.5	21.5	19.5	17.5	16.5
23	10.0	8.5	---	---	16.5	14.0	21.5	18.5	21.5	19.0	18.5	17.0
24	9.0	8.0	13.0	13.0	17.0	14.0	20.5	18.5	21.5	18.5	20.0	17.0
25	8.5	8.0	---	---	17.0	14.0	19.0	17.5	21.0	19.0	20.0	17.5
26	10.0	8.5	13.5	12.5	17.5	15.0	20.5	17.0	21.5	18.5	19.5	17.5
27	10.0	9.0	13.5	12.5	18.5	15.5	21.5	18.0	20.5	18.5	19.0	17.5
28	9.0	8.0	13.5	13.0	17.5	15.5	21.5	18.5	21.0	18.0	19.0	17.0
29	10.5	8.5	13.5	12.5	17.5	15.0	22.0	19.0	20.5	18.5	18.0	17.0
30	10.5	9.5	13.0	12.0	17.0	15.5	22.5	19.5	18.5	16.5	18.0	16.0
31	---	---	13.5	12.5	---	---	22.5	20.0	16.5	15.5	---	---
MONTH	11.5	8.0	---	---	18.5	11.5	22.5	14.0	23.5	15.5	22.0	15.5

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 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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 350 ft, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,060 ft³/s Dec. 16, 1982, gage height, 4.62 ft; minimum daily, 4.6 ft³/s Oct. 5, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 750 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16	2100	*2,060	4.62	Feb. 10	0345	1,170	3.89
Jan. 26	1900	810	3.48	Mar. 30	1345	1,000	3.65

Minimum daily, 6.5 ft³/s Aug. 28

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	27	216	57	113	285	464	73	31	31	10	23
2	7.1	21	186	53	97	248	380	69	30	25	10	16
3	6.9	19	219	55	82	206	301	66	29	19	9.8	13
4	6.9	17	304	53	71	179	252	63	28	17	9.9	12
5	6.9	17	246	53	65	157	208	63	27	17	9.7	11
6	11	16	227	53	107	141	179	71	27	16	9.3	9.8
7	12	15	160	54	211	137	157	68	26	16	9.0	9.4
8	8.9	15	120	52	190	123	139	77	25	17	8.7	8.9
9	8.3	14	96	47	296	115	126	82	24	15	8.5	8.9
10	7.8	14	77	43	896	138	115	76	26	15	8.4	8.6
11	7.7	13	64	40	502	123	104	71	25	14	8.5	8.5
12	7.7	13	70	37	421	188	94	67	23	14	8.4	8.5
13	7.1	12	85	34	488	455	84	64	23	14	8.3	8.2
14	6.9	12	79	32	373	349	76	60	22	13	8.0	8.0
15	6.8	12	484	33	334	258	73	57	22	13	7.8	8.0
16	6.6	13	1060	31	313	206	71	54	21	13	7.4	7.8
17	6.8	119	650	30	262	178	68	52	20	13	7.4	7.4
18	7.0	381	323	72	353	153	67	50	20	14	7.3	7.4
19	7.2	249	280	137	316	134	65	49	19	15	7.3	7.4
20	7.2	139	303	103	258	122	62	47	19	14	8.0	7.3
21	8.1	88	556	80	231	113	62	45	18	13	7.9	7.1
22	11	62	432	73	266	156	103	43	18	12	7.7	7.6
23	24	50	278	80	230	214	103	42	18	12	7.7	11
24	13	40	200	183	200	355	99	40	18	12	7.4	9.1
25	13	33	153	147	255	317	104	38	17	12	7.1	8.5
26	30	29	125	518	270	243	99	36	17	12	7.0	8.0
27	17	30	110	536	289	268	95	35	17	11	6.6	7.7
28	13	115	95	284	272	220	89	34	17	11	6.5	7.7
29	189	358	81	201	---	399	83	33	16	11	11	7.7
30	84	263	71	154	---	898	77	32	16	11	44	7.6
31	37	---	63	128	---	697	---	32	---	10	37	---
TOTAL	593.1	2206	7413	3453	7761	7775	3999	1689	659	452	321.6	281.1
MEAN	19.1	73.5	239	111	277	251	133	54.5	22.0	14.6	10.4	9.37
MAX	189	381	1060	536	896	898	464	82	31	31	44	23
MIN	6.6	12	63	30	65	113	62	32	16	10	6.5	7.1
AC-FT	1180	4380	14700	6850	15390	15420	7930	3350	1310	897	638	558
CAL YR 1982	TOTAL	33019.4	MEAN	90.5	MAX	1060	MIN	5.1	AC-FT	65490		
WTR YR 1983	TOTAL	36602.8	MEAN	101	MAX	1060	MIN	6.5	AC-FT	72600		

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1981 to current year.

WATER TEMPERATURES: November 1981 to current year.

SEDIMENT RECORDS: November 1981 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1981 to current year.

SEDIMENT RECORDS: November 1981 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum observed, 18.0°C May 4, 20, 1982; minimum observed, 5.5°C Jan. 19, 1983.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,490 mg/L Dec. 19, 1981; minimum daily mean, 0 mg/L on many days in 1983.

SEDIMENT DISCHARGE: Maximum daily, 9,950 tons Dec. 19, 1981; minimum daily, 0 tons on many days in 1983.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum observed, 14.0°C Mar. 25; minimum observed 5.5°C Jan. 19.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 827 mg/L Dec. 16; minimum daily mean, 0 mg/L on many days.

SEDIMENT DISCHARGE: Maximum daily, 3,240 tons Dec. 16; minimum daily, 0 tons on many days.

SUMMARY OF WATER AND SEDIMENT DISCHARGE, DECEMBER 1981 TO MAY 1982
(NOT PREVIOUSLY PUBLISHED)

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
DECEMBER 1981	9599.00	17765.00	2330	20070
JANUARY 1982	3978.00	163.68	92	256
FEBRUARY	6159.00	3614.86	1180	4790
MARCH	3245.00	135.88	30	166
APRIL	6454.00	2349.83	707	3060
MAY	1610.00	9.61	0	10
PERIOD	31045.00	24038.86	4339	28352

11530020 SUPPLY CREEK AT HOOPA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1982 TO APRIL 1983
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	8.5	---	9.5					
2	---	---	---	8.0	---	10.5	---					
3	---	---	10.0	---	---	---	---					
4	---	12.0	---	---	11.5	---	12.5					
5	---	---	11.5	---	---	---	---					
6	11.5	---	---	10.0	---	---	---					
7	---	13.5	7.5	---	8.0	9.5	---					
8	---	---	---	---	---	---	---					
9	---	---	9.5	---	8.5	11.5	---					
10	---	---	---	---	8.5	---	---					
11	---	---	---	---	---	11.5	---					
12	---	---	---	---	---	10.0	---					
13	---	---	8.5	---	10.0	8.5	---					
14	---	---	8.0	---	9.5	9.0	---					
15	---	8.0	10.5	---	9.0	10.0	---					
16	---	---	9.5	---	---	8.5	---					
17	---	9.0	9.0	10.0	9.5	---	---					
18	---	10.5	9.5	9.0	9.5	11.5	11.5					
19	---	9.5	---	5.5	---	---	---					
20	---	---	9.0	---	9.5	---	12.5					
21	---	---	---	7.0	---	11.0	---					
22	---	---	---	9.0	10.5	8.0	---					
23	---	---	8.0	8.5	---	---	---					
24	---	---	---	9.0	10.5	8.5	---					
25	---	---	---	8.5	7.5	14.0	---					
26	---	8.5	9.0	9.5	---	---	---					
27	---	---	---	9.5	---	---	10.0					
28	---	9.5	7.5	8.5	9.5	---	---					
29	---	9.5	---	---	---	8.5	---					
30	---	9.5	---	8.5	---	---	---					
31	---	---	---	---	---	13.0	---					
MONTH	---	---	---	---	---	---	---					

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1982 TO APRIL 1983

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (HG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (HG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (HG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7.2	0	0	27	6	.44	216	28	16
2	7.1	0	0	21	3	.17	186	20	10
3	6.9	0	0	19	1	.05	219	20	12
4	6.9	0	0	17	0	0	304	105	87
5	6.9	0	0	17	0	0	246	55	37
6	11	1	.03	16	2	.09	227	46	28
7	12	1	.03	15	4	.16	160	20	8.6
8	8.9	0	0	15	2	.08	120	18	5.8
9	8.3	0	0	14	2	.08	96	11	2.9
10	7.8	0	0	14	2	.08	77	9	1.9
11	7.7	0	0	13	2	.07	64	9	1.6
12	7.7	0	0	13	3	.11	70	18	3.4
13	7.1	0	0	12	3	.10	85	13	3.0
14	6.9	0	0	12	4	.13	79	18	3.8
15	6.8	0	0	12	6	.19	484	219	342
16	6.6	0	0	13	9	.32	1060	827	3240
17	6.8	0	0	119	65	19	650	777	1600
18	7.0	0	0	381	151	194	323	150	131
19	7.2	0	0	249	42	28	280	120	91
20	7.2	0	0	139	20	7.5	303	162	133
21	8.1	1	.02	88	15	3.6	556	413	699
22	11	1	.03	62	10	1.7	432	310	362
23	24	7	.45	50	7	.95	278	199	149
24	13	2	.07	40	5	.54	200	125	68
25	13	2	.07	33	3	.27	153	65	27
26	30	6	.49	29	3	.23	125	34	11
27	17	2	.09	30	5	.41	110	19	5.6
28	13	2	.07	115	72	77	95	11	2.0
29	189	111	72	358	146	152	81	9	2.0
30	84	52	12	263	52	37	71	7	1.3
31	37	12	1.2	---	---	---	63	5	.85
TOTAL	593.1	---	86.55	2206	---	524.27	7413	---	7085.75

KLAMATH RIVER BASIN

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 mi², approximately (not including Lost River or Lower Klamath Lake basins).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to December 1926 (published as "near Regua"), 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. 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.--Records fair. Flow considerably regulated by reservoirs and powerplants above station.
Large diversions for irrigation above station.

AVERAGE DISCHARGE.--49 years, 17,940 ft³/s, 13,000,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 557,000 ft³/s Dec. 23, 1964, gage height, 55.3 ft former datum, from floodmarks, from rating curve extended above 230,000 ft³/s on basis of flood-routing study; minimum daily, 1,310 ft³/s Sept. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 90,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 17	1200	231,000	27.93	Feb. 18	2100	160,000	24.23
Dec. 22	0700	118,000	21.55	Mar. 1	2330	108,000	20.84
Jan. 27	0900	*282,000	30.24	Mar. 13	2115	155,000	23.89
Feb. 13	1145	116,000	21.44	Mar. 31	0900	178,000	25.24

Minimum daily, 4,230 ft³/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4230	12300	41100	25600	63000	94300	133000	38000	43900	18800	7440	14000
2	4460	10100	34200	24000	53900	102000	115000	37700	41600	25100	7420	9700
3	4550	8960	38300	23700	46800	99000	100000	36500	39300	20100	7320	7730
4	4540	8350	48000	22900	41500	86600	86900	34500	39000	17300	7140	6840
5	4540	7970	51300	22800	36200	75800	76500	35800	38100	16700	6930	6230
6	4830	7760	55300	23200	34100	69700	68000	37300	37500	16700	6690	6000
7	5370	7840	45100	24800	42600	67900	62300	35900	39100	16500	6420	5810
8	5180	7800	36100	26100	46800	67700	57700	36100	40100	15700	6310	5710
9	4890	7830	30400	26900	58600	65000	53300	36100	40300	14300	6430	5650
10	4700	7740	26600	25300	106000	77000	48400	33800	38700	13100	6270	5470
11	4670	7450	22800	23800	101000	74100	44700	32300	37900	12700	6070	5270
12	4580	7280	20800	22700	95800	70900	41600	32100	34800	12700	5770	5240
13	4590	7230	22600	21800	112000	122000	38200	31900	33000	13200	5690	5280
14	4670	7130	21700	20900	95700	132000	35800	33000	33000	13400	5730	5270
15	4730	6960	36300	20300	84400	106000	33400	33200	32700	12100	5810	5170
16	4650	7050	109000	20100	85600	91800	31400	33700	32000	10700	5780	5080
17	4680	13500	203000	20400	83700	81400	30300	33700	30400	10400	5690	5010
18	4680	39400	121000	23100	141000	73100	30500	33200	27100	10200	5630	4940
19	4650	48900	82600	43400	133000	66300	30700	33200	24300	10100	5460	4850
20	4660	33400	71900	39800	102000	62000	32000	35900	22800	9820	5320	4730
21	4720	25700	84300	33600	90400	57600	32800	40800	22000	9260	5570	4730
22	5250	20900	109000	30400	89500	56900	34200	45300	20600	8830	5510	5090
23	7930	18300	84200	30600	83900	60300	40800	48000	19800	8580	5520	5500
24	8910	17200	63900	45100	79000	67700	44200	51000	18800	8450	5680	5910
25	6880	16600	51200	56400	76000	70200	41200	52500	17000	8380	5490	5760
26	8390	14900	43700	95100	76100	61600	37400	50300	16700	8090	5400	5580
27	8630	14200	39500	252000	75400	64300	36200	50200	16700	7810	5370	5400
28	7270	15600	36000	219000	82400	62400	37300	52200	16900	7550	5250	5300
29	15100	40400	32300	118000	---	64200	36600	55600	16700	7360	5380	5230
30	32700	50100	29200	93800	---	135000	37300	54500	16200	7450	9190	5200
31	18200	---	27100	75400	---	170000	---	48100	---	7510	20900	---
TOTAL	217830	498850	1718500	1551000	2216400	2554800	1527700	1242400	887000	378890	204580	177680
MEAN	7027	16630	55440	50030	79160	82410	50920	40080	29570	12220	6599	5923
MAX	32700	50100	203000	252000	141000	170000	133000	55600	43900	25100	20900	14000
MIN	4230	6960	20800	20100	34100	56900	30300	31900	16200	7360	5250	4730
AC-FT	432100	989500	3409000	3076000	4396000	5067000	3030000	2464000	1759000	751500	405800	352400
CAL YR 1982	TOTAL	10294330	MEAN	28200	MAX	203000	MIN	3790	AC-FT	20420000		
WTR YR 1983	TOTAL	13175630	MEAN	36200	MAX	252000	MIN	4230	AC-FT	26130000		

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

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.

INSTRUMENTATION.--Temperature recorder from 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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (MTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.7 UN-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV											
04...	1345	8230	182	7.9	12.0	765	3.6	10.6	98	K23	140
FEB											
07...	1245	43300	135	7.4	8.0	750	95	11.6	100	K38	--
MAR											
22...	1450	57000	140	7.7	9.0	755	80	9.6	84	K24	300
MAY											
18...	1300	32900	122	7.9	13.0	765	18	10.6	100	K4	K4
JUL											
13...	1420	13000	119	7.6	20.5	760	5.0	8.7	97	K8	K7
SEP											
28...	1300	4770	206	8.4	18.5	755	1.3	9.6	103	K5	210

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	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- LITY FIELD (MG/L CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV											
04...	72	0	16	7.8	9.0	21	.5	1.5	76	10	4.2
FEB											
07...	60	1	14	6.1	3.7	12	.2	.80	59	6.0	2.0
MAR											
22...	61	0	14	6.4	4.5	14	.3	.80	62	6.7	1.9
MAY											
18...	57	0	13	5.9	4.2	14	.2	.90	58	6.1	1.6
JUL											
13...	53	0	12	5.5	3.5	12	.2	.80	56	4.7	1.8
SEP											
28...	88	0	20	9.2	12	22	.6	1.7	88	15	5.7

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)	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											
04...	.10	23	116	120	.16	.33	<.06	.40	.07	.05	.05
FEB											
07...	<.10	16	81	84	.11	.11	<.06	.40	.16	.02	.03
MAR											
22...	<.10	16	87	88	.12	<.10	<.06	.50	.13	.03	.03
MAY											
18...	<.10	15	76	82	.10	<.10	<.06	.10	.05	.01	<.01
JUL											
13...	<.10	13	77	75	.10	<.10	.03	.50	.05	.01	.02
SEP											
28...	<.10	21	129	140	.18	<.10	.01	.70	.04	.04	.05

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.

KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 04...	1345	20	3	20	.6	<1	<1	<3	3	36	<1
FEB 07...	1245	40	1	16	<.5	<1	<1	<3	2	49	<1
MAY 18...	1300	50	1	18	<.5	<1	<1	<3	1	51	<1
SEP 28...	1300	<10	1	22	<.5	<1	<1	<3	3	<3	<1

DATE	TIME	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 04...	14		4	<.1	<10	3	<1	<1	98	<6	10
FEB 07...	12		5	--	<10	3	<1	<1	77	<6	10
MAY 18...	12		4	<.1	<10	2	<1	<1	66	<6	17
SEP 28...	7		12	<.1	<10	4	<1	<1	120	<6	19

		GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
DATE	TIME								
MAR 24...	1245	<1.8	<1.3	1.1	1.4	1.1	1.3	.04	.12
SEP 07...	1540	--	<.4	4.8	<.4	4.7	<.4	.04	.16
		GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
DATE	TIME								
MAR 22...	1450	1.7	<4.4	1.3	3.9	1.3	3.8	.04	.10
SEP 28...	1300	<4.0	<.4	2.9	<.4	2.4	<.4	.04	.20

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

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 04...	1315	8290	12.0	10	224	--	--	--
FEB 07...	1245	43300	8.0	344	40200	--	--	--
MAR 22...	1450	57000	9.0	367	56500	15	19	28
MAY 18...	1300	32900	13.0	75	6660	--	--	--
JUL 13...	1420	13000	20.5	21	737	--	--	--
SEP 28...	1410	5190	18.5	4	56	--	--	--

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 04...	--	--	79	--	--	--	--	--
FEB 07...	--	--	52	63	86	96	100	--
MAR 22...	34	41	48	58	80	92	99	100
MAY 18...	--	--	51	61	76	100	--	--
JUL 13...	--	--	66	--	--	--	--	--
SEP 28...	--	--	48	--	--	--	--	--

SMITH RIVER BASIN

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 mi².

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 National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--52 years, 3,872 ft³/s, 2,805,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228,000 ft³/s Dec. 22, 1964, gage height, 48.5 ft, from floodmarks, from rating curve extended above 110,000 ft³/s on basis of slope-area measurement at gage height 39.51 ft; minimum daily, 160 ft³/s Oct. 24, 25, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 36,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16	2100	82,200	30.77	Feb. 18	0600	69,600	28.91
Jan. 26	2130	50,400	25.82	Mar. 30	0630	*88,400	31.64
Feb. 10	0130	47,800	25.37				

Minimum daily, 249 ft³/s Oct. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	270	1880	9860	3390	7190	7300	18800	3440	1780	4280	539	1490
2	262	1440	8970	3210	6030	6440	16300	3150	1640	4520	531	1060
3	261	1200	13900	3580	5170	5530	13000	2930	1570	2510	519	843
4	261	1040	20900	4080	4540	4990	9990	2810	1510	1820	505	720
5	260	924	17100	4160	4060	4840	7910	2780	1440	1480	507	639
6	282	878	17000	3870	5490	4980	6540	3380	1450	1290	500	582
7	391	815	9730	3920	10300	8440	5620	4320	1470	1190	486	548
8	323	867	6720	3930	8680	9270	5000	7270	1440	1150	477	522
9	275	822	5190	3630	23100	9060	4620	6940	1380	1060	468	500
10	268	754	4250	3240	32800	16500	4250	5230	1490	972	462	481
11	265	702	3560	2930	17100	9400	3860	4490	1430	915	457	467
12	262	667	3680	2710	17600	11300	3500	4050	1240	865	449	453
13	258	635	4750	2510	22800	24600	3230	3710	1150	829	434	442
14	252	607	6640	2340	15300	17500	3000	3510	1140	800	423	424
15	252	584	32800	2230	12300	11900	2780	3270	1150	765	418	413
16	252	610	56600	2210	11900	8550	2630	3050	1070	739	408	408
17	252	7880	38800	2130	36200	6760	2610	2860	1050	727	405	396
18	252	18500	19900	4710	52100	5710	2550	2780	1100	718	394	389
19	249	13900	16200	12300	21600	4840	2650	2850	999	734	389	382
20	249	10200	19400	7880	14500	4330	2700	3010	943	710	389	364
21	287	7970	24300	5940	17400	4050	2690	3070	908	676	394	354
22	765	6290	19200	6730	20100	5320	2780	2890	875	653	390	364
23	4420	4700	13000	10000	13900	7360	5550	2910	866	638	389	432
24	2440	3710	9780	15500	10700	12100	5570	2910	848	627	393	413
25	1290	3040	7730	10900	10100	8160	5680	2740	814	625	386	384
26	3370	2590	6560	35200	11100	6300	5200	2440	789	611	382	365
27	1830	3010	5850	35800	9320	7690	4540	2350	790	592	367	361
28	1200	5350	5170	17000	7810	6860	4200	2370	765	582	359	351
29	12400	11600	4590	12700	---	19900	4010	2390	765	577	715	341
30	6610	12800	4120	11500	---	66100	3730	2180	755	559	3290	334
31	2910	---	3730	8860	---	32400	---	1930	---	544	2560	---
TOTAL	42918	125965	419980	249090	429190	358480	165490	104010	34617	34758	18785	15222
MEAN	1384	4199	13550	8035	15330	11560	5516	3355	1154	1121	606	507
MAX	12400	18500	56600	35800	52100	66100	18800	7270	1780	4520	3290	1490
MIN	249	584	3560	2130	4060	4050	2550	1930	755	544	359	334
AC-FT	85130	249900	833000	494100	851300	711000	328200	206300	68660	68940	37260	30190

CAL YR 1982	TOTAL	1900164	MEAN	5206	MAX	60500	MIN	243	AC-FT	3769000
WTR YR 1983	TOTAL	1998505	MEAN	5475	MAX	66100	MIN	249	AC-FT	3964000

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 year 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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	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-HF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC 28...	1130	5200	89	7.6	6.0	765	1.2	11.8	94	K4	50
MAR 24...	1130	11600	78	7.3	8.0	750	2.9	11.5	99	25	45
JUN 14...	1135	1160	98	7.9	16.0	755	.40	10.5	107	K3	64
SEP 15...	1000	423	134	8.1	18.5	755	.60	9.2	99	K3	95

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)	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- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
DEC 28...	42	2	4.5	7.5	1.7	8	.1	.30	40	<5.0	2.0
MAR 24...	38	2	3.1	7.3	1.6	8	.1	.20	36	1.9	2.1
JUN 14...	49	0	6.0	8.2	1.8	7	.1	.30	49	2.6	1.8
SEP 15...	66	1	6.8	12	2.3	7	.1	.50	65	3.0	2.5

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 CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	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 28...	<.10	13	57	--	.08	<.10	<.06	.40	.01	.02	.02
MAR 24...	<.10	13	52	51	.07	<.10	<.06	.40	.03	.01	.02
JUN 14...	<.10	13	63	63	.09	<.10	<.06	.30	.01	.01	.02
SEP 15...	<.10	14	73	80	.10	<.10	.02	.30	.01	<.01	<.01

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.

SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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)
DEC 28...	1130	20	<1	10	<.5	<1	<1	<3	1	19	<1
MAR 24...	1130	30	<1	7	<.5	<1	3	<3	2	44	1
JUN 14...	1135	<10	<1	10	<.5	1	<1	<3	2	4	2
SEP 15...	1000	<10	<1	11	<.5	<1	3	<3	1	<3	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)
DEC 28...	<4	2	<.1	<10	6	<1	<1	24	<6	7
MAR 24...	4	<1	<.1	<10	9	<1	<1	16	<6	7
JUN 14...	7	3	<.1	<10	4	<1	<1	30	<6	13
SEP 15...	<4	<1	<.1	<10	7	<1	<1	40	<6	<3

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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
MAR 24...	1200	11400	9.0	10	308	57
JUN 14...	1430	1160	16.0	3	9.4	---
SEP 15...	0930	411	18.5	1	1.1	---

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 1983

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
Alameda Creek basin						
11177200	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 bak at culvert on Sunol Road, 700 ft upstream from mouth, and 0.3 mi east of Sunol.	7.48	1975-76b 1977-83d	11-9-81	0.29a
					11-4-81	0.12a
					2-11-82	0.50a
					3-12-82	1.78a
					4-1-82	15.5a
					4-6-82	3.81a
					5-14-82	0.25a
					6-2-82	0.09a
					7-2-82	0.05a
					8-3-82	11.1a
					9-16-82	0.21a
	11-3-82	0.15				
	8-4-83	11.7				
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 1976-83	9-13-83	1.83

a Not previously published.

b Published as a miscellaneous measurement.

d Water-quality data for current year published in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1983

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Pescadero Creek basin						
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.

11153500 LLAGAS CREEK NEAR MORGAN HILL, CA

CHEMICAL ANALYSES: Water years 1979 to current year.

[illegible][illegible]

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PAJARO RIVER BASIN--Continued
11153500 LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

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 CONSTITUENTS, 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)
NOV									
17...	15	8.1	.10	20	230	.31	.55	.100	<.100
JAN									
11...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
20...	18	8.8	.10	19	220	.30	.54	.300	.310
26...	--	--	--	--	--	--	--	--	--
28...	13	6.2	.10	16	160	.22	.139	.300	.290
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
09...	13	4.7	<.10	18	150	.20	101	.200	.240
MAR									
02...	13	5.0	.10	20	150	.20	--	.300	.320
APR									
13...	13	6.4	.10	22	170	.23	4.1	.200	.160
MAY									
18...	14	6.5	<.10	21	200	.27	10	<.100	<.100
JUL									
13...	12	6.4	<.10	22	210	.28	5.5	<.100	<.100
AUG									
31...	11	6.0	.20	22	210	.28	6.7	<.100	<.100
SEP									
27...	--	--	--	--	--	--	--	--	--

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- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV									
17...	.150	.080	.95	1.0	1.1	1.1	1.2	.04	.02
JAN									
11...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
20...	.070	<.060	.63	--	.70	.40	1.0	.05	<.01
26...	--	--	--	--	--	--	--	--	--
28...	.110	.060	1.1	.44	1.2	.50	1.5	.10	.02
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
09...	.080	.130	.92	.47	1.0	.60	1.2	.09	.06
MAR									
02...	.120	.120	.98	.38	1.1	.50	1.4	.16	.02
APR									
13...	.130	<.060	.57	--	.70	.60	.90	.04	.03
MAY									
18...	.140	.060	.46	.44	.60	.50	--	.02	<.01
JUL									
13...	.120	.130	.58	.47	.70	.60	--	.06	.03
AUG									
31...	.240	.190	.66	.21	.90	.40	--	.05	.03
SEP									
27...	--	--	--	--	--	--	--	--	--

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)
NOV								
17...	1440	--	--	--	--	170	--	--
JAN								
20...	1330	--	--	--	--	150	--	--
28...	1610	30	5100	1	3	130	<1	<1
FEB								
09...	1445	--	--	--	--	110	--	--
MAR								
02...	1530	--	--	--	--	110	--	--
APR								
13...	1330	--	--	--	--	130	--	--
MAY								
18...	1300	--	--	--	--	140	--	--
JUL								
13...	1300	--	--	--	--	140	--	--
AUG								
31...	1400	<10	3500	--	4	140	--	<1

See footnote at end of table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PAJARO RIVER BASIN--Continued
 11153500 LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

DATE	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)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
17...	--	--	--	--	--	14	--	--	--
JAN									
20...	--	--	--	--	--	13	--	--	--
28...	<10	130	40	1	20	15	11000	<1	10
FEB									
09...	--	--	--	--	--	22	--	--	--
MAR									
02...	--	--	--	--	--	110	--	--	--
APR									
13...	--	--	--	--	--	14	--	--	--
MAY									
18...	--	--	--	--	--	11	--	--	--
JUL									
13...	--	--	--	--	--	47	--	--	--
AUG									
31...	--	90	50	--	20	130	11000	--	<10

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	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/L 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)
NOV								
17...	--	--	--	--	--	--	--	--
JAN								
20...	--	--	--	--	--	--	--	--
28...	<10	500	<.1	.11	<100	<1	12	30
FEB								
09...	--	--	--	--	--	--	--	--
MAR								
02...	--	--	--	--	--	--	--	--
APR								
13...	--	--	--	--	--	--	--	--
MAY								
18...	--	--	--	--	--	--	--	--
JUL								
13...	--	--	--	--	--	--	--	--
AUG								
31...	430	480	--	.06	<100	<1	<3	30

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	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)
NOV										
17...	1440	3.8	.50	--	--	--	--	--	--	--
JAN										
20...	1330	4.3	.50	--	--	--	--	--	--	--
28...	1610	5.0	1.0	<.20	<.2	<.020	<.2	<.020	<.020	<.020
FEB										
09...	1445	4.5	.50	--	--	--	--	--	--	--
MAR										
02...	1530	4.3	2.2	--	--	--	--	--	--	--
APR										
13...	1330	2.3	.40	<.10	<.1	<.010	<.1	<.010	<.010	<.010
MAY										
18...	1300	2.3	.40	--	--	--	--	--	--	--
JUL										
13...	1300	2.5	.20	--	--	--	--	--	--	--
AUG										
31...	1400	2.2	.50	<.10	<.1	<.010	<.1	<.010	<.010	<.010

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PAJARO RIVER BASIN--Continued
11153500 LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

DATE	DI- ELDRIN TOTAL (UG/L)	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)
NOV 17...	--	--	--	--	--	--	--	--	--	--
JAN 20...	--	--	--	--	--	--	--	--	--	--
28...	<.020	<.01	<.020	<.020	<.01	<.020	<.020	<.020	<.01	<.02
FEB 09...	--	--	--	--	--	--	--	--	--	--
MAR 02...	--	--	--	--	--	--	--	--	--	--
APR 13...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 13...	--	--	--	--	--	--	--	--	--	--
AUG 31...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	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)
NOV 17...	--	--	--	--	--	--	--	--	--	--
JAN 20...	--	--	--	--	--	--	--	--	--	--
28...	<.01	<.01	<.02	<.01	<.2	<2	<.01	<.01	<.01	<.01
FEB 09...	--	--	--	--	--	--	--	--	--	--
MAR 02...	--	--	--	--	--	--	--	--	--	--
APR 13...	<.01	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 13...	--	--	--	--	--	--	--	--	--	--
AUG 31...	<.01	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

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

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 1982 TO SEPTEMBER 1983

[illegible][illegible]

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PAJARO RIVER BASIN--Continued

11153530 LLAGAS CREEK AT MACHADO SCHOOL, NEAR MORGAN HILL, CA--Continued

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 SiO2)	SOLIDS, SUM OF CONSTITUENTS, 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)
NOV									
17...	18	11	.10	27	270	.37	.73	1.1	1.1
JAN									
11...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
20...	21	15	.10	29	280	.38	4.2	1.9	1.9
26...	--	--	--	--	--	--	--	--	--
28...	15	6.8	.10	18	180	.24	189	.50	.47
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
09...	11	5.3	.10	19	150	.21	130	.40	.39
MAR									
02...	14	4.8	.10	19	160	.21	312	.20	.20
APR									
13...	16	10	.10	26	240	.33	12	.90	.88
MAY									
18...	15	8.6	.10	24	220	.30	15	.40	.42
JUL									
13...	13	7.8	.10	23	220	.30	7.1	.30	.29
AUG									
31...	11	7.1	.20	23	210	.29	8.0	.30	.23
SEP									
27...	--	--	--	--	--	--	--	--	--

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- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV									
17...	.08	.09	.72	.51	.80	.60	1.9	.01	.01
JAN									
11...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
20...	<.06	<.06	--	--	.90	<.10	2.8	.04	.02
26...	--	--	--	--	--	--	--	--	--
28...	.11	.06	.79	.74	.90	.80	1.4	.11	.03
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
09...	.10	.13	1.1	.37	1.2	.50	1.6	.09	.06
MAR									
02...	.13	.11	1.1	.49	1.2	.60	1.4	.12	.01
APR									
13...	.09	<.06	.61	--	.70	.80	1.6	.03	.02
MAY									
18...	.14	<.06	.76	--	.90	.90	1.3	.02	<.01
JUL									
13...	.06	.04	.74	.46	.80	.50	1.1	.09	<.01
AUG									
31...	.11	.04	.39	.36	.50	.40	.80	.05	.02
SEP									
27...	--	--	--	--	--	--	--	--	--

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)
NOV								
17...	1320	--	--	--	--	160	--	--
JAN								
20...	1225	--	--	--	--	130	--	--
28...	1400	10	6900	1	3	130	<1	1
FEB								
09...	1300	--	--	--	--	120	--	--
MAR								
02...	1320	--	--	--	--	110	--	--
APR								
13...	1200	--	--	--	--	120	--	--
MAY								
18...	1130	--	--	--	--	130	--	--
JUL								
13...	1130	--	--	--	--	140	--	--
AUG								
31...	1300	<10	2900	1	<1	140	<1	<1

See footnote at end of table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PAJARO RIVER BASIN--Continued
 11153530 LLAGAS CREEK AT MACHADO SCHOOL, NEAR MORGAN HILL, CA--Continued

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, REC OV, FM BOT- TOM MA- TERIAL (UG/G)	COBALT, REC OV, FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, REC OV, FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, REC OV, FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, REC OV, FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
17...	--	--	--	--	--	5	--	--	--
JAN									
20...	--	--	--	--	--	8	--	--	--
28...	<10	40	20	1	20	36	13000	<1	10
FEB									
09...	--	--	--	--	--	120	--	--	--
MAR									
02...	--	--	--	--	--	20	--	--	--
APR									
13...	--	--	--	--	--	4	--	--	--
MAY									
18...	--	--	--	--	--	9	--	--	--
JUL									
13...	--	--	--	--	--	20	--	--	--
AUG									
31...	10	20	20	<1	10	39	6500	<1	<10

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, REC OV, FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY REC OV, FM BOT- TOM MA- TERIAL (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL FM BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, REC OV, FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV								
17...	--	--	--	--	--	--	--	--
JAN								
20...	--	--	--	--	--	--	--	--
28...	2	460	<.1	.17	<100	<1	7	40
FEB								
09...	--	--	--	--	--	--	--	--
MAR								
02...	--	--	--	--	--	--	--	--
APR								
13...	--	--	--	--	--	--	--	--
MAY								
18...	--	--	--	--	--	--	--	--
JUL								
13...	--	--	--	--	--	--	--	--
AUG								
31...	98	240	<.1	.03	<100	<1	17	20

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	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)
NOV										
17...	1320	1.7	.20	--	--	--	--	--	--	--
JAN										
20...	1225	2.5	.10	--	--	--	--	--	--	--
28...	1400	4.8	1.3	<.20	<.2	<.020	<.2	<.020	<.020	<.020
FEB										
09...	1300	4.6	.60	--	--	--	--	--	--	--
MAR										
02...	1320	4.2	1.2	--	--	--	--	--	--	--
APR										
13...	1200	1.8	.30	<.10	<.1	<.010	<.1	<.010	<.010	<.010
MAY										
18...	1130	2.1	.40	--	--	--	--	--	--	--
JUL										
13...	1130	2.1	.20	--	--	--	--	--	--	--
AUG										
31...	1300	2.3	.30	<.10	<.1	<.010	<.1	<.010	<.010	<.010

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PAJARO RIVER BASIN--Continued
11153530 LLAGAS CREEK AT MACHADO SCHOOL, NEAR MORGAN HILL, CA--Continued

DATE	DI- ELDRIN TOTAL (UG/L)	DI- AZINOM, 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)
NOV 17...	--	--	--	--	--	--	--	--	--	--
JAN 20...	--	--	--	--	--	--	--	--	--	--
28...	<.020	<.01	<.020	<.020	<.01	<.020	<.020	<.020	<.01	<.02
FEB 09...	--	--	--	--	--	--	--	--	--	--
MAR 02...	--	--	--	--	--	--	--	--	--	--
APR 13...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 13...	--	--	--	--	--	--	--	--	--	--
AUG 31...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	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)
NOV 17...	--	--	--	--	--	--	--	--	--	--
JAN 20...	--	--	--	--	--	--	--	--	--	--
28...	<.01	<.01	<.02	<.01	<.2	<2	<.01	<.01	<.01	<.01
FEB 09...	--	--	--	--	--	--	--	--	--	--
MAR 02...	--	--	--	--	--	--	--	--	--	--
APR 13...	<.01	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUL 13...	--	--	--	--	--	--	--	--	--	--
AUG 31...	<.01	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

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

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.

[illegible][illegible]

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PAJARO RIVER BASIN--Continued
11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

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)
NOV									
17...	24	9.5	.10	16	210	.29	1.7	.30	.23
JAN									
11...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
20...	22	10	.10	18	180	.25	6.6	1.6	1.6
26...	--	--	--	--	--	--	--	--	--
28...	14	6.8	.10	18	170	.23	212	.70	.67
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
09...	14	5.8	.10	20	160	.22	130	.60	.59
MAR									
02...	13	4.6	<.10	19	150	.21	319	.10	.13
APR									
13...	20	11	.10	24	260	.35	18	2.2	2.2
MAY									
18...	17	11	.10	22	230	.31	17	1.2	1.2
JUL									
13...	17	11	.10	22	230	.32	6.9	.90	.83
AUG									
31...	16	10	.20	21	210	.28	11	.10	.12
SEP									
27...	--	--	--	--	--	--	--	--	--

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC 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)
NOV									
17...	.10	.09	.70	.61	.80	.70	1.1	<.01	<.01
JAN									
11...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
20...	.13	.14	.77	.66	.90	.80	2.5	.12	.11
26...	--	--	--	--	--	--	--	--	--
28...	.12	.07	.88	.73	1.0	.80	1.7	.14	.04
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
09...	.14	.14	.76	.36	.90	.50	1.5	.10	.06
MAR									
02...	.12	.12	.48	.28	.60	.40	.70	.07	.01
APR									
13...	.12	.11	1.1	.59	1.2	.70	3.4	.06	.04
MAY									
18...	.12	.06	.88	.64	1.0	.70	2.2	.03	<.01
JUL									
13...	.04	.06	.46	.54	.50	.60	1.4	.02	.01
AUG									
31...	.06	.03	.54	.17	.60	.20	.70	.01	.01
SEP									
27...	--	--	--	--	--	--	--	--	--

See footnote at end of table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PAJARO RIVER BASIN--Continued
 11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

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)
NOV								
17...	1030	--	--	--	--	100	--	--
JAN								
20...	1020	--	--	--	--	80	--	--
28...	1130	40	5000	1	4	120	<1	<1
FEB								
09...	1000	--	--	--	--	110	--	--
MAR								
02...	1120	--	--	--	--	120	--	--
APR								
13...	1000	--	--	--	--	120	--	--
MAY								
18...	0945	--	--	--	--	130	--	--
JUL								
13...	1000	--	--	--	--	140	--	--
AUG								
31...	1030	<10	4500	1	<1	100	<1	<1

DATE	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)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
17...	--	--	--	--	--	5	--	--	--
JAN									
20...	--	--	--	--	--	67	--	--	--
28...	<10	30	10	2	20	61	11000	<1	30
FEB									
09...	--	--	--	--	--	61	--	--	--
MAR									
02...	--	--	--	--	--	170	--	--	--
APR									
13...	--	--	--	--	--	3	--	--	--
MAY									
18...	--	--	--	--	--	10	--	--	--
JUL									
13...	--	--	--	--	--	8	--	--	--
AUG									
31...	<10	30	20	1	20	17	11000	<1	10

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	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/L 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)
NOV								
17...	--	--	--	--	--	--	--	--
JAN								
20...	--	--	--	--	--	--	--	--
28...	8	460	<.1	.12	<100	<1	5	40
FEB								
09...	--	--	--	--	--	--	--	--
MAR								
02...	--	--	--	--	--	--	--	--
APR								
13...	--	--	--	--	--	--	--	--
MAY								
18...	--	--	--	--	--	--	--	--
JUL								
13...	--	--	--	--	--	--	--	--
AUG								
31...	6	320	<.1	.05	<100	<1	14	30

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

PAJARO RIVER BASIN--Continued
11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	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)
NOV										
17...	1030	2.5	.40	--	--	--	--	--	--	--
JAN										
20...	1020	6.1	1.0	--	--	--	--	--	--	--
28...	1130	4.9	1.4	<.10	<.1	<.010	<.1	<.010	<.010	<.010
FEB										
09...	1000	4.5	.60	--	--	--	--	--	--	--
MAR										
02...	1120	4.1	1.0	--	--	--	--	--	--	--
APR										
13...	1000	1.8	.50	<.10	<.1	<.010	<.1	<.010	<.010	<.010
MAY										
18...	0945	2.4	.50	--	--	--	--	--	--	--
JUL										
13...	1000	2.2	.10	--	--	--	--	--	--	--
AUG										
31...	1030	2.0	.40	<.10	<.1	<.010	<.1	<.010	<.010	<.010

DATE	DI- ELDRIN TOTAL (UG/L)	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)
NOV										
17...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
28...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
APR										
13...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	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)
NOV										
17...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
28...	<.01	<.01	<.01	<.01	<.1	<1	<.01	.01	<.01	<.01
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
APR										
13...	<.01	<.01	<.01	<.01	<.1	<1	<.01	.01	<.01	<.01
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	<.01	<.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

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GUADALUPE RIVER BASIN

11167500 GUADALUPE CREEK AT GUADALUPE, CA

LOCATION.--Lat 37°13'02", long 121°54'35", in SW 1/4 sec.19, T.85, 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, and 3.5 mi upstream from confluence with Alamitos Creek.

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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UNHOS)	PH (STAND- ARD UNITS)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
NOV									
15-16	--	--	389	--	--	18	--	24	--
16...	1115	14	380	8.4	755	--	10.4	99	--
JAN									
11...	1045	14	--	--	--	--	--	--	850
18-19	--	--	338	--	--	75	--	26	--
18...	0920	13	--	--	--	--	--	--	280
19...	1050	7.3	388	8.0	755	--	11.5	97	--
25...	1040	200	--	--	--	--	--	--	3000
26-27	--	--	190	--	--	390	--	30	--
27...	1105	711	149	7.9	745	--	11.0	100	--
FEB									
01...	0850	98	--	--	--	--	--	--	670
07-08	--	--	239	--	--	120	--	41	--
08...	0950	112	224	8.0	755	--	10.8	99	--
08...	1045	110	--	--	--	--	--	--	3900
28-29	--	--	--	--	--	280	--	35	--
MAR									
01-01	--	--	--	--	--	280	--	35	--
01...	1215	838	179	8.0	--	--	--	--	--
APR									
11-12	--	--	--	--	--	3.1	--	<10	--
12...	1000	12	294	8.6	755	--	12.2	109	--
MAY									
16-17	1800	--	360	--	--	15	--	16	--
17...	0925	23	358	8.3	760	--	11.2	104	--
JUL									
11-12	1800	--	338	--	--	6.3	--	10	--
12...	0930	19	320	8.3	755	--	10.4	100	--
AUG									
29-30	1800	--	459	--	--	8.4	--	19	--
30...	1000	2.6	464	8.3	755	--	9.3	97	--
SEP									
27...	1135	.80	--	--	--	--	--	--	2700

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCOI FECAL, (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										
15-16	--	--	180	0	35	23	13	13	.4	1.2
16...	--	--	--	--	--	--	--	--	--	--
JAN										
11...	20	35	--	--	--	--	--	--	--	--
18-19	--	--	160	10	30	21	9.7	11	.3	1.8
18...	25	60	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
25...	100	420	--	--	--	--	--	--	--	--
26-27	--	--	90	3	18	11	6.7	14	.3	1.6
27...	--	--	--	--	--	--	--	--	--	--
FEB										
01...	50	140	--	--	--	--	--	--	--	--
07-08	--	--	120	9	22	15	7.4	12	.3	1.4
08...	--	--	--	--	--	--	--	--	--	--
08...	120	210	--	--	--	--	--	--	--	--
28-29	--	--	92	0	17	12	7.2	14	.3	1.4
MAR										
01-01	--	--	92	0	17	12	7.2	14	.3	1.4
01...	--	--	--	--	--	--	--	--	--	--
APR										
11-12	--	--	210	30	38	27	12	11	.4	1.0
12...	--	--	--	--	--	--	--	--	--	--
MAY										
16-17	--	--	180	18	33	23	11	12	.4	1.0
17...	--	--	--	--	--	--	--	--	--	--
JUL										
11-12	--	--	150	3	29	19	9.7	12	.4	.80
12...	--	--	--	--	--	--	--	--	--	--
AUG										
29-30	--	--	230	34	41	31	14	12	.4	1.2
30...	--	--	--	--	--	--	--	--	--	--
SEP										
27...	380	490	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
 11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

DATE	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 SI02)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV									
15-16	--	23	9.6	.10	14	230	.31	<.10	<.10
16...	180	--	--	--	--	--	--	--	--
JAN									
11...	--	--	--	--	--	--	--	--	--
18-19	--	26	12	.20	15	210	.28	.40	.41
18...	--	--	--	--	--	--	--	--	--
19...	170	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
26-27	--	13	5.6	.10	14	120	.17	.40	.36
27...	92	--	--	--	--	--	--	--	--
FEB									
01...	--	--	--	--	--	--	--	--	--
07-08	--	18	6.1	.10	16	150	.21	.30	.26
08...	106	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
28-28	--	14	5.2	.10	15	130	.17	.30	.23
MAR									
01-01	--	14	5.2	.10	15	130	.17	.30	.23
01...	84	--	--	--	--	--	--	--	--
APR									
11-12	--	43	10	.10	19	260	.35	.20	.16
12...	170	--	--	--	--	--	--	--	--
MAY									
16-17	--	28	8.8	.10	18	220	.30	.10	.13
17...	160	--	--	--	--	--	--	--	--
JUL									
11-12	--	22	7.0	.10	16	190	.26	<.10	<.10
12...	140	--	--	--	--	--	--	--	--
AUG									
29-30	--	53	13	.20	18	290	.39	<.10	<.10
30...	190	--	--	--	--	--	--	--	--
SEP									
27...	--	--	--	--	--	--	--	--	--

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- SOLVED (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)
NOV									
15-16	.11	.07	1.6	1.0	1.7	1.1	--	.08	<.01
16...	--	--	--	--	--	--	--	--	--
JAN									
11...	--	--	--	--	--	--	--	--	--
18-19	.06	<.06	.94	--	1.0	<.10	1.4	.15	.03
18...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
26-27	.27	.06	.83	.54	1.1	.60	1.5	.50	.06
27...	--	--	--	--	--	--	--	--	--
FEB									
01...	--	--	--	--	--	--	--	--	--
07-08	.07	.08	1.4	.52	1.5	.60	1.8	.25	.08
08...	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
28-28	.13	.14	1.2	.26	1.3	.40	1.6	.39	.05
MAR									
01-01	.13	.14	1.2	.26	1.3	.40	1.6	.39	.05
01...	--	--	--	--	--	--	--	--	--
APR									
11-12	.10	.07	.20	.23	.30	.30	.50	.05	.03
12...	--	--	--	--	--	--	--	--	--
MAY									
16-17	.06	<.06	.84	--	.90	.20	1.0	.07	.01
17...	--	--	--	--	--	--	--	--	--
JUL									
11-12	.03	.05	.47	.35	.50	.40	--	.05	.02
12...	--	--	--	--	--	--	--	--	--
AUG									
29-30	.09	.03	.41	.07	.50	.10	--	.03	.02
30...	--	--	--	--	--	--	--	--	--
SEP									
27...	--	--	--	--	--	--	--	--	--

See footnote at end of table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

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)
NOV								
15-16	--	--	--	--	--	190	--	--
JAN								
18-19	--	--	--	--	--	80	--	--
26-27	--	40	4300	1	6	60	<1	<1
FEB								
07-08	--	--	--	--	--	50	--	--
28-28	--	--	--	--	--	50	--	--
MAR								
01-01	--	--	--	--	--	50	--	--
APR								
11-12	--	--	--	--	--	70	--	--
MAY								
16-17	1800	--	--	--	--	110	--	--
JUL								
11-12	1800	--	--	--	--	120	--	--
AUG								
29-30	1800	<10	--	2	--	150	<1	--
30...	1000	--	3800	--	3	--	--	<1

DATE	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)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
15-16	--	--	--	--	--	7	--	--	--
JAN									
18-19	--	--	--	--	--	22	--	--	--
26-27	<10	30	20	2	10	100	9000	<1	10
FEB									
07-08	--	--	--	--	--	53	--	--	--
28-28	--	--	--	--	--	40	--	--	--
MAR									
01-01	--	--	--	--	--	40	--	--	--
APR									
11-12	--	--	--	--	--	6	--	--	--
MAY									
16-17	--	--	--	--	--	21	--	--	--
JUL									
11-12	--	--	--	--	--	18	--	--	--
AUG									
29-30	<10	--	--	1	--	5	--	<1	--
30...	--	40	40	--	20	--	10000	--	<10

DATE	HANGA- NESE, DIS- SOLVED (UG/L AS MN)	HANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOMCHA- TERIAL (UG/L 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)
NOV								
15-16	--	--	--	--	--	--	--	--
JAN								
18-19	--	--	--	--	--	--	--	--
26-27	2	360	<1	1.4	<100	<1	7	30
FEB								
07-08	--	--	--	--	--	--	--	--
28-28	--	--	--	--	--	--	--	--
MAR								
01-01	--	--	--	--	--	--	--	--
APR								
11-12	--	--	--	--	--	--	--	--
MAY								
16-17	--	--	--	--	--	--	--	--
JUL								
11-12	--	--	--	--	--	--	--	--
AUG								
29-30	5	--	<1	--	<100	--	18	--
30...	--	450	--	1.1	--	<1	--	30

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	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)
NOV										
16...	1115	2.4	.20	--	--	--	--	--	--	--
JAN										
19...	1050	5.8	.30	--	--	--	--	--	--	--
26-27	--	--	--	<.10	<.1	<.010	<.1	<.010	.010	<.010
27...	1105	3.9	2.2	--	--	--	--	--	--	--
FEB										
08...	0950	4.7	.70	--	--	--	--	--	--	--
MAR										
01...	1215	3.9	4.8	--	--	--	--	--	--	--
APR										
12...	1000	1.5	.20	<.10	<.1	<.010	<.1	<.010	<.010	<.010
MAY										
17...	0925	1.5	.20	--	--	--	--	--	--	--
JUL										
12...	0930	1.7	.10	--	--	--	--	--	--	--
AUG										
30...	1000	2.4	.50	<.10	<.1	<.010	<.1	<.010	<.010	<.010

DATE	DI- ELDRIN, TOTAL (UG/L)	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)
NOV										
16...	--	--	--	--	--	--	--	--	--	--
JAN										
19...	--	--	--	--	--	--	--	--	--	--
26-27	<.010	.02	<.010	<.010	<.01	<.010	<.010	.010	.01	<.01
27...	--	--	--	--	--	--	--	--	--	--
FEB										
08...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
12...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
MAY										
17...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
30...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	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)
NOV										
16...	--	--	--	--	--	--	--	--	--	--
JAN										
19...	--	--	--	--	--	--	--	--	--	--
26-27	<.01	<.01	<.01	<.01	<.1	<1	<.01	.01	<.01	<.01
27...	--	--	--	--	--	--	--	--	--	--
FEB										
08...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
12...	<.01	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01
MAY										
17...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
30...	<.01	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

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

GUADALUPE RIVER BASIN--Continued

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 of 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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
NOV									
15-16	--	--	509	--	--	15	--	15	--
16...	1230	11	464	8.1	755	--	9.5	90	--
JAN									
11...	0820	11	--	--	--	--	--	--	500
18-19	--	--	485	--	--	45	--	24	--
18...	0850	9.5	--	--	--	--	--	--	330
19...	1240	31	436	7.9	760	--	9.7	86	--
25...	1015	574	--	--	--	--	--	--	31000
26-27	--	--	196	--	--	500	--	32	--
27...	1240	1680	159	7.8	750	--	10.7	97	--
FEB									
01...	0815	435	--	--	--	--	--	--	3600
07-08	--	--	--	--	--	100	--	31	--
08...	1025	467	--	--	--	--	--	--	8500
08...	1050	467	286	7.9	755	--	10.2	93	--
28-28	--	--	--	--	--	190	--	34	--
MAR									
01-01	--	--	--	--	--	190	--	34	--
01...	1350	1420	221	8.0	--	--	--	--	--
APR									
11-12	--	--	--	--	--	20	--	14	--
12...	1100	27	522	8.3	760	--	11.0	108	--
MAY									
16-17	1800	--	467	--	--	80	--	12	--
17...	1015	24	440	8.5	760	--	10.4	110	--
JUL									
12...	1015	11	502	8.6	755	2.0	9.9	118	12
AUG									
29-30	1800	--	527	--	--	15	--	25	--
30...	1100	15	500	8.4	755	--	9.3	110	--
SEP									
27...	0845	15	--	--	--	--	--	--	250

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCO FECAL, (COLS. PER 100 ML)	HARD- NESS, (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM 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										
15-16	--	--	240	20	36	36	18	14	.5	1.5
16...	--	--	--	--	--	--	--	--	--	--
JAN										
11...	110	120	--	--	--	--	--	--	--	--
18-19	--	--	220	36	32	34	17	14	.5	1.9
18...	80	85	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
25...	1200	3400	--	--	--	--	--	--	--	--
26-27	--	--	93	6	16	13	6.4	13	.3	1.9
27...	--	--	--	--	--	--	--	--	--	--
FEB										
01...	350	460	--	--	--	--	--	--	--	--
07-08	--	--	140	9	24	20	9.5	13	.4	1.6
08...	2300	2900	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
28-28	--	--	98	0	16	14	7.6	14	.3	1.8
MAR										
01-01	--	--	98	0	16	14	7.6	14	.3	1.8
01...	--	--	--	--	--	--	--	--	--	--
APR										
11-12	--	--	250	32	39	38	18	13	.5	1.1
12...	--	--	--	--	--	--	--	--	--	--
MAY										
16-17	--	--	220	23	36	32	15	13	.4	1.0
17...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	--	--	230	32	35	35	17	14	.5	1.0
AUG										
29-30	--	--	260	29	39	39	18	13	.5	1.2
30...	--	--	--	--	--	--	--	--	--	--
SEP										
27...	110	30	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
 11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

DATE	ALKA- LIMITY 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, 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)
NOV										
15-16	--	31	21	.10	16	290	.40	--	1.0	.97
16...	200	--	--	--	--	--	--	--	--	--
JAN										
11...	--	--	--	--	--	--	--	--	--	--
18-19	--	35	25	.10	16	270	.37	--	2.2	2.2
18...	--	--	--	--	--	--	--	--	--	--
19...	170	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
26-27	--	12	6.5	<.10	14	120	.17	--	.60	.63
27...	97	--	--	--	--	--	--	--	--	--
FEB										
01...	--	--	--	--	--	--	--	--	--	--
07-08	--	19	9.7	.10	16	180	.24	--	.80	.74
08...	--	--	--	--	--	--	--	--	--	--
08...	135	--	--	--	--	--	--	--	--	--
28-28	--	16	6.5	<.10	14	130	.18	--	.50	.45
MAR										
01-01	--	16	6.5	<.10	14	130	.18	--	.50	.45
01...	104	--	--	--	--	--	--	--	--	--
APR										
11-12	--	32	21	.10	20	300	.41	--	1.8	1.8
12...	220	--	--	--	--	--	--	--	--	--
MAY										
16-17	--	31	18	.10	19	270	.37	--	1.1	1.1
17...	190	--	--	--	--	--	--	--	--	--
JUL										
12...	200	33	19	<.10	16	280	.38	8.2	.90	.90
AUG										
29-30	--	30	21	.20	19	300	.41	--	.90	.92
30...	220	--	--	--	--	--	--	--	--	--
SEP										
27...	--	--	--	--	--	--	--	--	--	--

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- SOLVED (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)
NOV									
15-16	.13	.15	1.5	.75	1.6	.90	2.6	.05	<.01
16...	--	--	--	--	--	--	--	--	--
JAN									
11...	--	--	--	--	--	--	--	--	--
18-19	.10	.12	1.0	.78	1.1	.90	3.3	.16	.08
18...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
26-27	.25	.08	1.4	.82	1.6	.90	2.2	.33	.10
27...	--	--	--	--	--	--	--	--	--
FEB									
01...	--	--	--	--	--	--	--	--	--
07-08	.10	.13	.80	.47	.90	.60	1.7	.20	.09
08...	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
28-28	.17	.14	1.3	.56	1.5	.70	2.0	.25	.09
MAR									
01-01	.17	.14	1.3	.56	1.5	.70	2.0	.25	.09
01...	--	--	--	--	--	--	--	--	--
APR									
11-12	.12	.10	1.5	.70	1.6	.80	3.4	.06	.03
12...	--	--	--	--	--	--	--	--	--
MAY									
16-17	.11	.07	.39	.23	.50	.30	1.6	.05	<.01
17...	--	--	--	--	--	--	--	--	--
JUL									
12...	.04	.04	.76	.56	.80	.60	1.7	.02	.01
AUG									
29-30	.07	.03	1.0	.27	1.1	.30	2.0	.05	.01
30...	--	--	--	--	--	--	--	--	--
SEP									
27...	--	--	--	--	--	--	--	--	--

See footnote at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
 11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

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)
NOV								
15-16	--	--	--	--	--	140	--	--
JAN								
18-19	--	--	--	--	--	100	--	--
26-27	--	120	6400	1	9	50	<1	<1
FEB								
07-08	--	--	--	--	--	70	--	--
28-28	--	--	--	--	--	50	--	--
MAR								
01-01	--	--	--	--	--	50	--	--
APR								
11-12	--	--	--	--	--	110	--	--
MAY								
16-17	1800	--	--	--	--	110	--	--
JUL								
12...	1015	--	--	--	--	140	--	--
AUG								
29-30	1800	<10	--	1	--	130	<1	--
30...	1100	--	3300	--	4	--	--	<1

DATE	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)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
15-16	--	--	--	--	--	4	--	--	--
JAN									
18-19	--	--	--	--	--	16	--	--	--
26-27	<10	40	20	4	20	150	11000	<1	<10
FEB									
07-08	--	--	--	--	--	92	--	--	--
28-28	--	--	--	--	--	160	--	--	--
MAR									
01-01	--	--	--	--	--	160	--	--	--
APR									
11-12	--	--	--	--	--	<3	--	--	--
MAY									
16-17	--	--	--	--	--	6	--	--	--
JUL									
12...	--	--	--	--	--	6	--	--	--
AUG									
29-30	10	--	--	3	--	<3	--	<1	--
30...	--	30	30	--	10	--	8000	--	<10

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	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/L 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)
NOV								
15-16	--	--	--	--	--	--	--	--
JAN								
18-19	--	--	--	--	--	--	--	--
26-27	4	330	<1	4.2	<100	<1	3	30
FEB								
07-08	--	--	--	--	--	--	--	--
28-28	--	--	--	--	--	--	--	--
MAR								
01-01	--	--	--	--	--	--	--	--
APR								
11-12	--	--	--	--	--	--	--	--
MAY								
16-17	--	--	--	--	--	--	--	--
JUL								
12...	--	--	--	--	--	--	--	--
AUG								
29-30	2	--	<1	--	<100	--	43	--
30...	--	230	--	1.0	--	<1	--	20

See footnote at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
 11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	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)
NOV 16...	1230	2.8	.40	--	--	--	--	--	--	--
JAN 19...	1240	4.8	.70	--	--	--	--	--	--	--
26-27	1240	--	--	<.10	<.1	<.010	<.1	<.010	.010	<.010
27...	1240	5.2	3.2	--	--	--	--	--	--	--
FEB 08...	1050	5.0	.70	--	--	--	--	--	--	--
MAR 01...	1350	5.6	2.5	--	--	--	--	--	--	--
APR 12...	1100	1.7	.50	<.10	<.1	<.010	<.1	<.010	<.010	<.010
MAY 17...	1015	1.7	.70	--	--	--	--	--	--	--
JUL 12...	1015	1.9	.10	--	--	--	--	--	--	--
AUG 30...	1100	2.4	.20	<.10	<.1	<.010	<.1	<.010	<.010	<.010

DATE	DI- ELDRIN TOTAL (UG/L)	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)
NOV 16...	--	--	--	--	--	--	--	--	--	--
JAN 19...	--	--	--	--	--	--	--	--	--	--
26-27	.010	.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
27...	--	--	--	--	--	--	--	--	--	--
FEB 08...	--	--	--	--	--	--	--	--	--	--
MAR 01...	--	--	--	--	--	--	--	--	--	--
APR 12...	<.010	.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
MAY 17...	--	--	--	--	--	--	--	--	--	--
JUL 12...	--	--	--	--	--	--	--	--	--	--
AUG 30...	<.010	.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	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)
NOV 16...	--	--	--	--	--	--	--	--	--	--
JAN 19...	--	--	--	--	--	--	--	--	--	--
26-27	<.01	<.01	<.01	<.01	<.1	<1	<.01	.01	<.01	<.01
27...	--	--	--	--	--	--	--	--	--	--
FEB 08...	--	--	--	--	--	--	--	--	--	--
MAR 01...	--	--	--	--	--	--	--	--	--	--
APR 12...	<.01	<.01	<.01	<.01	<.1	<1	<.01	.02	<.01	<.01
MAY 17...	--	--	--	--	--	--	--	--	--	--
JUL 12...	--	--	--	--	--	--	--	--	--	--
AUG 30...	<.01	<.01	<.01	<.01	<.1	<1	<.01	.01	<.01	<.01

< 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 SE 1/4 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 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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. MEM. FIL (COLS./ 100 ML)
NOV									
16...	0945	59	337	8.2	750	3.5	10.0	99	13
JAN									
11...	1105	106	--	--	--	--	--	--	500
18...	0940	30	--	--	--	--	--	--	450
19...	0935	28	321	7.9	755	29	11.2	96	12
25...	1105	48	--	--	--	--	--	--	14000
26-27	--	--	180	--	--	370	--	--	40
27...	0920	194	221	7.9	745	--	11.0	100	--
FEB									
01...	0915	224	--	--	--	--	--	--	1500
07-08	--	--	241	--	--	150	--	--	30
08...	0830	205	232	7.9	750	--	11.1	101	--
08...	1105	203	--	--	--	--	--	--	3300
28-28	--	--	--	--	--	220	--	--	16
MAR									
01-01	--	--	--	--	--	220	--	--	16
01...	1045	1300	226	8.1	--	--	--	--	--
APR									
11-12	--	--	--	--	--	1.4	--	--	10
12...	0845	60	262	8.3	755	--	10.6	98	--
MAY									
16-17	1800	--	271	--	--	19	--	--	12
17...	0815	92	262	8.2	755	--	10.5	100	--
JUL									
12...	0815	60	281	8.0	750	8.4	10.3	101	12
AUG									
29-30	1800	--	285	--	--	4.0	--	--	25
30...	0845	39	280	8.0	750	--	9.8	98	--
SEP									
27...	0715	28	--	--	--	--	--	--	55

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCOCCI FECAL, (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										
16...	--	--	150	20	37	14	12	15	.4	1.6
JAN										
11...	15	50	--	--	--	--	--	--	--	--
18...	35	50	--	--	--	--	--	--	--	--
19...	--	--	150	28	36	14	12	15	.4	1.5
25...	230	1100	--	--	--	--	--	--	--	--
26-27	--	--	80	4	18	8.6	6.6	15	.3	1.4
27...	--	--	--	--	--	--	--	--	--	--
FEB										
01...	75	200	--	--	--	--	--	--	--	--
07-08	--	--	110	16	26	11	9.2	15	.4	1.4
08...	--	--	--	--	--	--	--	--	--	--
08...	190	390	--	--	--	--	--	--	--	--
28-28	--	--	98	16	23	9.8	9.1	17	.4	1.3
MAR										
01-01	--	--	98	16	23	9.8	9.1	17	.4	1.3
01...	--	--	--	--	--	--	--	--	--	--
APR										
11-12	--	--	120	9	29	11	9.6	15	.4	1.2
12...	--	--	--	--	--	--	--	--	--	--
MAY										
16-17	--	--	120	13	30	11	9.9	15	.4	1.2
17...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	--	--	120	14	30	12	9.7	14	.4	1.2
AUG										
29-30	--	--	140	22	33	13	10	14	.4	1.2
30...	--	--	--	--	--	--	--	--	--	--
SEP										
27...	5	30	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

DATE	ALKA- LITY 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, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED 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)
NOV										
16...	130	41	9.1	.20	12	210	.28	33	<.10	<.10
JAN										
11...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
19...	120	38	8.7	.20	13	200	.27	15	.30	.26
25...	--	--	--	--	--	--	--	--	--	--
26-27	--	16	5.4	.10	12	110	.15	--	.30	.31
27...	92	--	--	--	--	--	--	--	--	--
FEB										
01...	--	--	--	--	--	--	--	--	--	--
07-08	--	26	6.5	.20	14	150	.21	--	.20	.23
08...	82	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
28-28	--	24	5.8	.10	13	140	.18	--	.20	.22
MAR										
01-01	--	24	5.8	.10	13	140	.18	--	.20	.22
01...	88	--	--	--	--	--	--	--	--	--
APR										
11-12	--	26	7.0	.10	17	170	.23	--	.20	.21
12...	100	--	--	--	--	--	--	--	--	--
MAY										
16-17	--	27	6.8	.10	17	170	.23	--	.20	.15
17...	110	--	--	--	--	--	--	--	--	--
JUL										
12...	110	29	6.7	.10	17	170	.23	28	.10	.13
AUG										
29-30	--	28	7.0	.20	18	180	.24	--	.20	.16
30...	110	--	--	--	--	--	--	--	--	--
SEP										
27...	--	--	--	--	--	--	--	--	--	--

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- SOLVED (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)
NOV									
16...	.11	.10	.99	1.1	1.1	1.2	--	.01	<.01
JAN									
11...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
19...	<.06	<.06	--	--	.70	.30	1.0	.05	.02
25...	--	--	--	--	--	--	--	--	--
26-27	.25	.06	1.3	.44	1.5	.50	1.8	.38	.03
27...	--	--	--	--	--	--	--	--	--
FEB									
01...	--	--	--	--	--	--	--	--	--
07-08	.06	.12	.84	.48	.90	.60	1.1	.12	.06
08...	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
28-28	.14	.14	.66	.26	.80	.40	1.0	.18	.01
MAR									
01-01	.14	.14	.66	.26	.80	.40	1.0	.18	.01
01...	--	--	--	--	--	--	--	--	--
APR									
11-12	.12	.08	.28	.22	.40	.30	.60	.06	.03
12...	--	--	--	--	--	--	--	--	--
MAY									
16-17	.12	.08	.08	--	.20	<.10	.40	.04	.01
17...	--	--	--	--	--	--	--	--	--
JUL									
12...	.04	.04	.36	.16	.40	.20	.50	.05	.02
AUG									
29-30	.09	.08	.61	.22	.70	.30	.90	.03	.02
30...	--	--	--	--	--	--	--	--	--
SEP									
27...	--	--	--	--	--	--	--	--	--

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
 11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

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 FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV								
16...	0945	--	--	--	--	50	--	--
JAN								
19...	0935	--	--	--	--	50	--	--
26-27	--	20	3300	<1	2	30	<1	<1
FEB								
07-08	--	--	--	--	--	40	--	--
28-28	--	--	--	--	--	30	--	--
MAR								
01-01	--	--	--	--	--	30	--	--
APR								
11-12	--	--	--	--	--	40	--	--
MAY								
16-17	1800	--	--	--	--	40	--	--
JUL								
12...	0815	--	--	--	--	40	--	--
AUG								
29-30	1800	<10	--	<1	--	40	<1	--
30...	0845	--	3600	--	2	--	--	<1

DATE	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)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
16...	--	--	--	--	--	5	--	--	--
JAN									
19...	--	--	--	--	--	17	--	--	--
26-27	<10	20	10	3	10	110	4500	<1	30
FEB									
07-08	--	--	--	--	--	9	--	--	--
28-28	--	--	--	--	--	40	--	--	--
MAR									
01-01	--	--	--	--	--	40	--	--	--
APR									
11-12	--	--	--	--	--	19	--	--	--
MAY									
16-17	--	--	--	--	--	20	--	--	--
JUL									
12...	--	--	--	--	--	17	--	--	--
AUG									
29-30	<10	--	--	2	--	5	--	<1	--
30...	--	20	20	--	30	--	5500	--	80

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	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/L 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)
NOV								
16...	--	--	--	--	--	--	--	--
JAN								
19...	--	--	--	--	--	--	--	--
26-27	3	240	<.1	.05	<100	<1	28	20
FEB								
07-08	--	--	--	--	--	--	--	--
28-28	--	--	--	--	--	--	--	--
MAR								
01-01	--	--	--	--	--	--	--	--
APR								
11-12	--	--	--	--	--	--	--	--
MAY								
16-17	--	--	--	--	--	--	--	--
JUL								
12...	--	--	--	--	--	--	--	--
AUG								
29-30	<1	--	<.1	--	<100	--	9	--
30...	--	210	--	.06	--	<1	--	20

See footnote at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
 11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	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)
NOV										
16...	0945	3.4	.20	--	--	--	--	--	--	--
JAN										
19...	0935	3.5	.30	--	--	--	--	--	--	--
27...	0920	3.6	3.8	--	--	--	--	--	--	--
FEB										
08...	0830	3.9	.80	--	--	--	--	--	--	--
MAR										
01...	1045	6.0	2.7	--	--	--	--	--	--	--
APR										
12...	0845	1.8	.30	<.10	<.1	<.010	<.1	<.010	<.010	<.010
MAY										
17...	0815	2.2	.30	--	--	--	--	--	--	--
JUL										
12...	0815	1.9	.10	--	--	--	--	--	--	--
AUG										
30...	0845	2.2	.20	<.10	<.1	<.010	<.1	<.010	<.010	<.010

DATE	DI- ELDRIN TOTAL (UG/L)	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)
NOV										
16...	--	--	--	--	--	--	--	--	--	--
JAN										
19...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
FEB										
08...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
12...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
MAY										
17...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
30...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	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)
NOV										
16...	--	--	--	--	--	--	--	--	--	--
JAN										
19...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
FEB										
08...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
12...	<.01	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01
MAY										
17...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
30...	<.01	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

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

GUADALUPE RIVER BASIN--Continued

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 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. MEH.FIL (COLS./ 100 ML)
NOV									
16...	0820	53	341	8.3	754	3.3	9.5	91	12
JAN									
11...	1120	35	--	--	--	--	--	--	950
18...	1010	30	--	--	--	--	--	--	900
19...	0740	33	308	7.7	755	22	10.9	94	16
25...	1120	137	--	--	--	--	--	--	110000
27...	0735	108	177	7.7	745	340	10.4	95	45
FEB									
01...	0935	634	--	--	--	--	--	--	2400
08...	0720	656	232	7.9	755	140	10.9	100	--
08...	1130	743	--	--	--	--	--	--	6500
MAR									
01...	0820	1240	204	7.9	760	380	10.6	99	47
APR									
12...	0730	66	288	8.4	755	17	10.6	100	12
MAY									
17...	0730	96	273	8.3	760	15	9.9	97	18
JUL									
12...	0715	60	301	8.2	755	5.0	8.9	94	13
AUG									
30...	0730	46	292	8.1	755	3.3	8.4	92	24
SEP									
27...	0735	30	--	--	--	--	--	--	440

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCOI FECAL, (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										
16...	--	--	150	23	38	14	13	15	.5	1.7
JAN										
11...	15	40	--	--	--	--	--	--	--	--
18...	100	80	--	--	--	--	--	--	--	--
19...	--	--	140	29	34	13	12	16	.5	1.6
25...	3000	10000	--	--	--	--	--	--	--	--
27...	--	--	81	7	18	8.7	7.4	16	.4	1.7
FEB										
01...	130	320	--	--	--	--	--	--	--	--
08...	--	--	100	16	25	10	8.9	16	.4	1.4
08...	950	1500	--	--	--	--	--	--	--	--
MAR										
01...	--	--	90	8	21	9.1	8.0	16	.4	1.5
APR										
12...	--	--	130	14	32	13	11	15	.4	1.2
MAY										
17...	--	--	130	17	31	12	10	15	.4	1.2
JUL										
12...	--	--	130	17	31	12	10	15	.4	1.2
AUG										
30...	--	--	140	29	34	13	11	15	.4	1.3
SEP										
27...	70	60	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

DATE	ALKA- LITY FIELD (MG/L AS CAC03)	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)
NOV										
16...	130	40	9.9	.20	13	210	.28	30	<.10	<.10
JAN										
11...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
19...	110	36	10	.20	12	180	.25	16	.30	.29
25...	--	--	--	--	--	--	--	--	--	--
27...	74	18	14	.10	12	130	.17	36	.60	.67
FEB										
01...	--	--	--	--	--	--	--	--	--	--
08...	88	24	6.9	.10	13	140	.19	252	.30	.32
08...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	82	22	6.2	.10	14	130	.18	440	.30	.31
APR										
12...	120	26	9.1	.10	17	180	.25	32	.30	.30
MAY										
17...	110	27	7.8	.10	17	170	.23	45	.10	.14
JUL										
12...	110	28	7.8	.10	17	170	.24	28	<.10	<.10
AUG										
30...	110	28	11	.20	17	180	.25	23	<.10	<.10
SEP										
27...	--	--	--	--	--	--	--	--	--	--

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- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV									
16...	<.06	.08	--	1.0	1.2	1.1	--	.01	<.01
JAN									
11...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
19...	<.06	<.06	--	--	.40	.40	.70	.08	<.01
25...	--	--	--	--	--	--	--	--	--
27...	.19	.13	1.0	.97	1.2	1.1	1.8	.75	.07
FEB									
01...	--	--	--	--	--	--	--	--	--
08...	.07	.12	1.1	.28	1.2	.40	1.5	.15	.07
08...	--	--	--	--	--	--	--	--	--
MAR									
01...	.13	.08	1.3	.42	1.4	.50	1.7	.44	.03
APR									
12...	.12	<.06	.58	--	.70	.60	1.0	.05	.03
MAY									
17...	.10	.07	.80	.33	.90	.40	1.0	.04	.01
JUL									
12...	.04	.06	.46	.44	.50	.50	--	.04	.01
AUG									
30...	.10	.03	.20	.27	.30	.30	--	.01	.01
SEP									
27...	--	--	--	--	--	--	--	--	--

See footnote at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
 11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, REC. FM BOT- TON MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TON MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM REC. FM BOT- TON MA- TERIAL (UG/G AS CD)
NOV								
16...	0820	--	--	--	--	50	--	--
JAN								
19...	0740	--	--	--	--	50	--	--
27...	0735	150	6000	1	4	30	<1	<1
FEB								
08...	0720	--	--	--	--	40	--	--
MAR								
01...	0820	--	--	--	--	40	--	--
APR								
12...	0730	--	--	--	--	40	--	--
MAY								
17...	0730	--	--	--	--	40	--	--
JUL								
12...	0715	--	--	--	--	40	--	--
AUG								
30...	0730	<10	2300	<1	3	40	<1	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, REC. FM BOT- TON MA- TERIAL (UG/G)	COBALT, REC. FM BOT- TON MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, REC. FM BOT- TON MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, REC. FM BOT- TON MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, REC. FM BOT- TON MA- TERIAL (UG/G AS PB)
NOV									
16...	--	--	--	--	--	5	--	--	--
JAN									
19...	--	--	--	--	--	15	--	--	--
27...	<10	20	10	2	20	170	10000	<1	20
FEB									
08...	--	--	--	--	--	16	--	--	--
MAR									
01...	--	--	--	--	--	86	--	--	--
APR									
12...	--	--	--	--	--	13	--	--	--
MAY									
17...	--	--	--	--	--	15	--	--	--
JUL									
12...	--	--	--	--	--	11	--	--	--
AUG									
30...	<10	9	10	1	20	10	4800	<1	<10

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, REC. FM BOT- TON MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY REC. FM BOT- TON MA- TERIAL (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TON MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, REC. FM BOT- TON MA- TERIAL (UG/G AS ZN)
NOV								
16...	--	--	--	--	--	--	--	--
JAN								
19...	--	--	--	--	--	--	--	--
27...	30	410	<.1	.05	<100	<1	7	60
FEB								
08...	--	--	--	--	--	--	--	--
MAR								
01...	--	--	--	--	--	--	--	--
APR								
12...	--	--	--	--	--	--	--	--
MAY								
17...	--	--	--	--	--	--	--	--
JUL								
12...	--	--	--	--	--	--	--	--
AUG								
30...	24	300	<.1	.06	<100	<1	6	30

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (HG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (HG/L AS C)	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)
NOV										
16...	0820	2.9	.50	--	--	--	--	--	--	--
JAN										
19...	0740	3.8	.50	--	--	--	--	--	--	--
27...	0735	5.6	3.8	<.10	<.1	<.010	<.1	<.010	<.010	<.010
FEB										
08...	0720	4.6	.80	--	--	--	--	--	--	--
MAR										
01...	0820	4.1	3.5	--	--	--	--	--	--	--
APR										
12...	0730	1.8	.60	<.10	<.1	<.010	<.1	<.010	<.010	<.010
MAY										
17...	0730	1.7	.50	--	--	--	--	--	--	--
JUL										
12...	0715	1.9	.10	--	--	--	--	--	--	--
AUG										
30...	0730	2.0	.30	<.10	<.1	<.010	<.1	<.010	<.010	<.010

DATE	DI- ELDRIN TOTAL (UG/L)	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)
NOV										
16...	--	--	--	--	--	--	--	--	--	--
JAN										
19...	--	--	--	--	--	--	--	--	--	--
27...	<.010	.02	<.010	<.010	<.01	<.010	<.010	.010	.01	<.01
FEB										
08...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
12...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
MAY										
17...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
30...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	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)
NOV										
16...	--	--	--	--	--	--	--	--	--	--
JAN										
19...	--	--	--	--	--	--	--	--	--	--
27...	<.01	<.01	<.01	<.01	<.1	<1	<.01	--	--	--
FEB										
08...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
12...	<.01	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01
MAY										
17...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
30...	<.01	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

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

GUADALUPE RIVER BASIN--Continued

11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, CA

LOCATION.--Lat 37°18'45", long 121°54'12", in San Juan Bautista Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank 100 ft upstream from Lincoln Avenue bridge, 0.6 mi downstream from Dry Creek.

DRAINAGE AREA.--48.4 mi².

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
JAN										
19...	1350	9.7	245	8.2	760	5.7	11.3	99	27	--
25...	0930	.00	--	--	--	--	--	--	--	70000
27...	1500	400	188	7.8	750	450	10.6	99	38	--
FEB										
01...	0725	.00	--	--	--	--	--	--	--	3400
08...	0925	476	--	--	--	--	--	--	--	11000
08...	1215	561	236	8.0	760	130	11.2	102	33	--
MAR										
01...	1445	2600	217	8.0	--	450	11.0	--	61	--
APR										
12...	1230	18	317	9.6	760	2.2	16.6	163	14	--
MAY										
17...	1130	--	275	--	--	--	--	--	--	--
17...	1130	52	275	8.8	765	8.7	12.5	128	12	--
AUG										
30...	1300	1.6	286	8.5	760	.80	11.4	133	25	--
SEP										
27...	0800	.80	--	--	--	--	--	--	--	4300

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCOCI FECAL, (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)
JAN										
19...	--	--	100	20	25	10	11	18	.5	1.5
25...	2200	7200	--	--	--	--	--	--	--	--
27...	--	--	80	8	18	8.5	8.1	18	.4	1.8
FEB										
01...	90	320	--	--	--	--	--	--	--	--
08...	1800	2100	--	--	--	--	--	--	--	--
08...	--	--	100	14	25	10	9.1	16	.4	1.5
MAR										
01...	--	--	96	12	23	9.4	8.7	16	.4	1.5
APR										
12...	--	--	130	24	32	13	13	17	.5	1.4
MAY										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	130	17	31	12	11	16	.4	1.2
AUG										
30...	--	--	130	21	31	13	14	19	.5	1.4
SEP										
27...	940	410	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, CA--Continued

DATE	ALKA- LIMINITY (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 SI02)	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)
JAN										
19...	84	26	11	.10	8.5	140	.20	3.8	.30	.33
25...	--	--	--	--	--	--	--	--	--	--
27...	72	17	8.6	.10	11	120	.16	126	.70	.67
FEB										
01...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	90	24	7.2	.20	13	140	.20	219	.30	.32
MAR										
01...	84	24	6.5	.10	15	140	.19	976	.30	.30
APR										
12...	110	28	15	.10	13	180	.25	9.0	<.10	<.10
MAY										
17...	--	--	--	--	--	--	--	--	--	--
17...	110	28	8.5	.10	15	170	.24	24	<.10	<.10
AUG										
30...	110	27	13	.20	10	180	.24	.76	<.10	<.10
SEP										
27...	--	--	--	--	--	--	--	--	--	--

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- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
JAN									
19...	<.06	<.06	--	--	1.1	.50	1.4	.05	<.01
25...	--	--	--	--	--	--	--	--	--
27...	.17	.06	1.1	.84	1.3	.90	2.0	.75	.08
FEB									
01...	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
08...	.08	.10	.92	.30	1.0	.40	1.3	.16	.07
MAR									
01...	.12	.12	1.7	.38	1.8	.50	2.1	.66	.03
APR									
12...	.09	<.06	.61	--	.70	.40	--	.03	.02
MAY									
17...	--	--	--	--	--	--	--	--	--
17...	.11	.07	.19	.23	.30	.30	--	.04	<.01
AUG									
30...	.07	.03	--	.17	<.20	.20	--	.01	<.01
SEP									
27...	--	--	--	--	--	--	--	--	--

See footnote at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
 11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, CA--Continued

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								
19...	1350	--	--	--	--	50	--	--
27...	1500	130	5000	1	4	40	<1	<1
FEB								
08...	1215	--	--	--	--	40	--	--
MAR								
01...	1445	--	--	--	--	40	--	--
APR								
12...	1230	--	--	--	--	70	--	--
MAY								
17...	1130	--	--	--	--	50	--	--
AUG								
30...	1300	<10	3200	<1	3	50	<1	<1

DATE	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)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
JAN									
19...	--	--	--	--	--	30	--	--	--
27...	<10	20	<10	3	10	150	8500	<1	50
FEB									
08...	--	--	--	--	--	19	--	--	--
MAR									
01...	--	--	--	--	--	130	--	--	--
APR									
12...	--	--	--	--	--	17	--	--	--
MAY									
17...	--	--	--	--	--	16	--	--	--
AUG									
30...	<10	10	<10	2	10	7	5500	<1	20

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	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/L 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)
JAN								
19...	--	--	--	--	--	--	--	--
27...	11	200	<.1	.06	<100	<1	4	60
FEB								
08...	--	--	--	--	--	--	--	--
MAR								
01...	--	--	--	--	--	--	--	--
APR								
12...	--	--	--	--	--	--	--	--
MAY								
17...	--	--	--	--	--	--	--	--
AUG								
30...	<1	170	<.1	.04	<100	<1	6	30

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	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)
JAN										
19...	1350	4.0	.40	--	--	--	--	--	--	--
27...	1500	5.6	4.2	<.10	<.1	<.010	.1	<.010	.010	<.010
FEB										
08...	1215	4.2	1.0	--	--	--	--	--	--	--
MAR										
01...	1445	4.5	4.2	--	--	--	--	--	--	--
APR										
12...	1230	2.3	.50	<.10	<.1	<.010	<.1	<.010	<.010	<.010
MAY										
17...	1130	1.8	.40	--	--	--	--	--	--	--
AUG										
30...	1300	2.0	.20	<.10	<.1	<.010	<.1	<.010	<.010	<.010

DATE	DI- ELDRIN TOTAL (UG/L)	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)
JAN										
19...	--	--	--	--	--	--	--	--	--	--
27...	<.010	.03	<.010	<.010	<.01	<.010	<.010	.020	.01	<.01
FEB										
08...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
12...	<.010	.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
MAY										
17...	--	--	--	--	--	--	--	--	--	--
AUG										
30...	<.010	.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	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)
JAN										
19...	--	--	--	--	--	--	--	--	--	--
27...	<.01	<.01	<.01	<.01	<.1	<1	<.01	.01	<.01	<.01
FEB										
08...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
12...	<.01	<.01	<.01	<.01	<.1	<1	<.01	.03	<.01	<.01
MAY										
17...	--	--	--	--	--	--	--	--	--	--
AUG										
30...	<.01	<.01	<.01	<.01	<.1	<1	<.01	.02	<.01	<.01

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

GUADALUPE RIVER BASIN--Continued

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 at San Jose, 100 ft downstream from Los Gatos Creek.
DRAINAGE AREA.--144 mi².

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
NOV										
16...	1350	14	606	8.4	760	20	10.0	94	12	--
JAN										
11...	0745	18	--	--	--	--	--	--	--	8000
18...	0920	19	--	--	--	--	--	--	--	20000
19...	1440	68	454	8.1	760	27	10.7	95	20	--
25...	0945	687	--	--	--	--	--	--	--	30000
27...	1625	1540	235	7.9	755	350	10.6	99	46	--
FEB										
01...	0745	749	--	--	--	--	--	--	--	4500
08...	0940	927	--	--	--	--	--	--	--	32000
08...	1315	934	270	8.0	760	150	10.7	100	--	--
MAR										
01...	1630	4240	200	8.0	--	330	10.0	--	60	--
APR										
12...	1330	61	554	9.0	760	15	13.1	128	14	--
MAY										
17...	1245	103	411	8.5	765	6.5	10.0	105	15	--
JUL										
12...	1145	18	743	8.6	760	1.0	9.6	113	11	--
AUG										
30...	1400	20	713	8.3	760	4.5	10.6	124	24	--
SEP										
27...	0815	19	--	--	--	--	--	--	--	22000

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCOCCI FECAL, (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										
16...	--	--	260	30	48	34	27	18	.7	1.3
JAN										
11...	500	850	--	--	--	--	--	--	--	--
18...	1000	750	--	--	--	--	--	--	--	--
19...	--	--	200	35	34	29	17	15	.5	1.9
25...	1600	2900	--	--	--	--	--	--	--	--
27...	--	--	99	0	20	12	8.8	16	.4	1.8
FEB										
01...	330	400	--	--	--	--	--	--	--	--
08...	3600	6100	--	--	--	--	--	--	--	--
08...	--	--	120	40	25	15	10	15	.4	1.6
MAR										
01...	--	--	93	5	19	11	7.7	15	.4	1.6
APR										
12...	--	--	250	68	43	34	22	16	.6	1.2
MAY										
17...	--	--	190	24	38	24	16	15	.5	1.2
JUL										
12...	--	--	330	60	56	46	30	16	.7	1.3
AUG										
30...	--	--	350	56	61	47	33	17	.8	1.5
SEP										
27...	2000	3100	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

DATE	ALKA- LITY 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, 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)
NOV										
16...	230	61	24	.20	24	360	.49	14	1.7	1.6
JAN										
11...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
19...	170	38	21	.10	17	260	.35	48	1.9	1.9
25...	--	--	--	--	--	--	--	--	--	--
27...	104	18	9.5	.10	14	150	.20	608	.80	.80
FEB										
01...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	84	23	10	.10	15	150	.20	380	.60	.60
MAR										
01...	98	18	6.4	.10	14	130	.18	1500	.50	.43
APR										
12...	180	47	21	.20	17	290	.40	49	2.1	2.1
MAY										
17...	170	39	16	.10	17	250	.34	70	1.1	1.1
JUL										
12...	270	80	27	.20	20	420	.57	21	3.2	3.2
AUG										
30...	290	71	30	.30	23	440	.60	24	2.9	2.7
SEP										
27...	--	--	--	--	--	--	--	--	--	--

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)
NOV									
16...	.11	<.06	1.3	--	1.4	1.2	3.1	.28	.17
JAN									
11...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
19...	.07	.07	.93	.43	1.0	.50	2.9	.47	.31
25...	--	--	--	--	--	--	--	--	--
27...	.24	.09	1.1	.61	1.3	.70	2.1	.60	.08
FEB									
01...	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
08...	.09	.09	1.0	.41	1.1	.50	1.7	.21	.09
MAR									
01...	.13	.12	1.9	.38	2.0	.50	2.5	.79	.07
APR									
12...	.08	.06	1.0	.74	1.1	.80	3.2	.05	.03
MAY									
17...	.13	.06	.47	.44	.60	.50	1.7	.04	<.01
JUL									
12...	.04	.04	.96	1.2	1.0	1.2	4.2	.05	.04
AUG									
30...	.12	.08	.78	.02	.90	.10	3.8	.05	.03
SEP									
27...	--	--	--	--	--	--	--	--	--

See footnote at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
 11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

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)
NOV								
16...	1350	--	--	--	--	110	--	--
JAN								
19...	1440	--	--	--	--	100	--	--
27...	1625	120	3900	1	4	50	<1	1
FEB								
08...	1315	--	--	--	--	50	--	--
MAR								
01...	1630	--	--	--	--	50	--	--
APR								
12...	1330	--	--	--	--	110	--	--
MAY								
17...	1245	--	--	--	--	80	--	--
JUL								
12...	1145	--	--	--	--	160	--	--
AUG								
30...	1400	<10	3500	1	2	150	<1	<1

DATE	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)	LEAD, RECov. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
16...	--	--	--	--	--	7	--	--	--
JAN									
19...	--	--	--	--	--	17	--	--	--
27...	<10	30	20	2	20	150	7000	<1	80
FEB									
08...	--	--	--	--	--	40	--	--	--
MAR									
01...	--	--	--	--	--	240	--	--	--
APR									
12...	--	--	--	--	--	<3	--	--	--
MAY									
17...	--	--	--	--	--	16	--	--	--
JUL									
12...	--	--	--	--	--	6	--	--	--
AUG									
30...	<10	20	10	1	10	4	6500	<1	40

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	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/L 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)
NOV								
16...	--	--	--	--	--	--	--	--
JAN								
19...	--	--	--	--	--	--	--	--
27...	10	350	<.1	3.5	<100	<1	6	70
FEB								
08...	--	--	--	--	--	--	--	--
MAR								
01...	--	--	--	--	--	--	--	--
APR								
12...	--	--	--	--	--	--	--	--
MAY								
17...	--	--	--	--	--	--	--	--
JUL								
12...	--	--	--	--	--	--	--	--
AUG								
30...	12	200	<.1	.03	<100	<1	9	50

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

GUADALUPE RIVER BASIN--Continued
 11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	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)
NOV										
16...	1350	1.8	.30	--	--	--	--	--	--	--
JAN										
19...	1440	4.2	.80	--	--	--	--	--	--	--
27...	1625	5.4	5.0	<.10	<.1	<.010	<.1	<.010	<.010	<.010
FEB										
08...	1315	4.4	1.3	--	--	--	--	--	--	--
MAR										
01...	1630	4.7	4.0	--	--	--	--	--	--	--
APR										
12...	1330	2.3	.40	<.10	<.1	<.010	<.1	<.010	<.010	<.010
MAY										
17...	1245	1.7	.40	--	--	--	--	--	--	--
JUL										
12...	1145	1.8	.10	--	--	--	--	--	--	--
AUG										
30...	1400	1.4	.30	<.10	<.1	<.010	<.1	<.010	<.010	<.010

DATE	DI- ELDRIN TOTAL (UG/L)	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)
NOV										
16...	--	--	--	--	--	--	--	--	--	--
JAN										
19...	--	--	--	--	--	--	--	--	--	--
27...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
FEB										
08...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
12...	<.010	.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
MAY										
17...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
30...	<.010	.02	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	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)
NOV										
16...	--	--	--	--	--	--	--	--	--	--
JAN										
19...	--	--	--	--	--	--	--	--	--	--
27...	<.01	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01
FEB										
08...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
12...	<.01	<.01	<.01	<.01	<.1	<1	<.01	.03	<.01	<.01
MAY										
17...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
30...	<.01	<.01	<.01	<.01	<.1	<1	<.01	.05	<.01	<.01

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

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 north-
east of Madrone.
DRAINAGE AREA.--195 mi².
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1980 to current year.

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	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, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
NOV										
17...	0910	58	313	7.9	750	15	10.4	98	--	--
JAN										
11...	0930	382	--	--	--	--	--	--	250	10
19...	0935	27	--	--	--	--	--	--	450	15
20...	0905	27	336	8.1	750	50	11.1	98	--	--
26...	0930	401	--	--	--	--	--	--	4100	450
28...	0945	570	276	8.0	745	260	10.9	100	--	--
FEB										
02...	0830	401	--	--	--	--	--	--	950	90
09...	0835	412	--	--	--	--	--	--	3400	110
09...	0900	413	277	8.0	755	160	11.1	100	--	--
MAR										
02...	0910	1000	250	8.2	735	310	10.4	98	--	--
APR										
13...	0900	432	324	8.1	755	45	10.9	101	--	--
MAY										
18...	0845	371	305	8.1	755	20	10.8	101	--	--
JUL										
13...	0900	62	321	8.1	750	18	10.5	102	--	--
AUG										
31...	0915	62	396	8.1	750	20	9.9	98	--	--
SEP										
27...	1050	60	--	--	--	--	--	--	75	1

[illegible]

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

COYOTE CREEK BASIN--Continued

11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM, NEAR MADRONE, CA--Continued

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)
NOV									
17...	32	9.7	.10	12	190	.26	29	.30	.33
JAN									
11...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
20...	34	10	.20	11	200	.27	14	.20	.14
26...	--	--	--	--	--	--	--	--	--
28...	29	8.8	.20	12	170	.23	265	.20	.19
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
09...	27	8.9	.20	12	170	.23	191	.20	.21
MAR									
02...	24	8.1	.20	13	160	.21	419	.20	.17
APR									
13...	28	8.8	.10	13	170	.23	200	.30	.25
MAY									
18...	33	9.3	.10	13	190	.25	186	.20	.25
JUL									
13...	35	9.9	.10	14	200	.27	33	.30	.24
AUG									
31...	37	10	.20	14	210	.28	35	.30	.27
SEP									
27...	--	--	--	--	--	--	--	--	--

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- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV									
17...	.12	.13	1.3	.97	1.4	1.1	1.7	.02	<.01
JAN									
11...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
20...	<.06	<.06	--	--	.30	<.10	.50	.05	<.01
26...	--	--	--	--	--	--	--	--	--
28...	.12	<.06	.98	--	1.1	.60	1.3	.18	.03
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
09...	.06	.09	.74	.51	.80	.60	1.0	.12	.06
MAR									
02...	.15	.09	.95	.41	1.1	.50	1.3	.26	.02
APR									
13...	.09	.12	.61	.58	.70	.70	1.0	.07	.04
MAY									
18...	.10	.06	.70	.74	.80	.80	1.0	.06	.02
JUL									
13...	.07	.05	.43	.35	.50	.40	.80	.05	.02
AUG									
31...	.10	<.01	.60	--	.70	.40	1.0	.02	.02
SEP									
27...	--	--	--	--	--	--	--	--	--

See footnote at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

COYOTE CREEK BASIN--Continued
 11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM, NEAR MADRONE, CA--Continued

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)
NOV								
17...	0910	--	--	--	--	80	--	--
JAN								
20...	0905	--	--	--	--	80	--	--
28...	0945	80	3900	1	3	80	<1	1
FEB								
09...	0900	--	--	--	--	70	--	--
MAR								
02...	0910	--	--	--	--	70	--	--
APR								
13...	0900	--	--	--	--	60	--	--
MAY								
18...	0845	--	--	--	--	70	--	--
JUL								
13...	0900	--	--	--	--	70	--	--
AUG								
31...	0915	<10	2100	1	8	60	<1	<1

DATE	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)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
17...	--	--	--	--	--	16	--	--	--
JAN									
20...	--	--	--	--	--	8	--	--	--
28...	<10	30	10	2	260	69	9500	<1	20
FEB									
09...	--	--	--	--	--	33	--	--	--
MAR									
02...	--	--	--	--	--	120	--	--	--
APR									
13...	--	--	--	--	--	9	--	--	--
MAY									
18...	--	--	--	--	--	23	--	--	--
JUL									
13...	--	--	--	--	--	15	--	--	--
AUG									
31...	<10	20	20	2	20	18	6000	<1	20

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	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/L 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)
NOV								
17...	--	--	--	--	--	--	--	--
JAN								
20...	--	--	--	--	--	--	--	--
28...	3	310	<.1	.11	<100	<1	<3	50
FEB								
09...	--	--	--	--	--	--	--	--
MAR								
02...	--	--	--	--	--	--	--	--
APR								
13...	--	--	--	--	--	--	--	--
MAY								
18...	--	--	--	--	--	--	--	--
JUL								
13...	--	--	--	--	--	--	--	--
AUG								
31...	11	240	<.1	.06	<100	<1	41	40

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

COVOTE CREEK BASIN--Continued

11169970 COVOTE CREEK BELOW LEROY ANDERSON DAM, NEAR MADRONE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	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)
NOV										
17...	0910	4.1	.30	--	--	--	--	--	--	--
JAN										
20...	0905	4.0	.50	--	--	--	--	--	--	--
28...	0945	5.2	1.4	<.20	<.2	<.020	<.2	<.020	<.020	<.020
FEB										
09...	0900	5.5	.60	--	--	--	--	--	--	--
MAR										
02...	0910	5.4	1.5	--	--	--	--	--	--	--
APR										
13...	0900	3.9	.30	<.10	<.1	<.010	<.1	<.010	<.010	<.010
MAY										
18...	0845	3.2	.20	--	--	--	--	--	--	--
JUL										
13...	0900	3.1	<.10	--	--	--	--	--	--	--
AUG										
31...	0915	2.8	.20	<.10	<.1	<.010	<.1	<.010	<.010	<.010

DATE	DI- ELDRIN TOTAL (UG/L)	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)
NOV										
17...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
28...	<.020	<.01	<.020	<.020	<.01	<.020	<.020	<.020	<.01	<.02
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
APR										
13...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	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)
NOV										
17...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
28...	<.01	<.01	<.02	<.01	<.2	<2	<.01	.01	<.01	<.01
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
APR										
13...	<.01	<.01	<.01	<.01	<.1	<1	<.01	.02	<.01	<.01
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	<.01	<.01	<.01	<.01	<.1	<1	<.01	.01	<.01	<.01

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

11171500 COYOTE CREEK NEAR EDENVALE, CA

CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

[illegible][illegible]

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

COYOTE CREEK BASIN--Continued
11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

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)
NOV									
16-17	50	20	.20	15	290	.39	--	3.4	3.4
17...	--	--	--	--	--	--	--	--	--
JAN									
11...	--	--	--	--	--	--	--	--	--
19-20	55	28	.20	15	300	.41	--	4.0	4.0
19...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
28...	26	10	.20	14	180	.24	405	.90	.93
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	29	9.7	.20	12	190	.25	1670	.30	.34
09...	--	--	--	--	--	--	--	--	--
MAR									
02...	26	8.6	.20	13	170	.24	2760	.40	.34
APR									
13...	31	10	.10	13	200	.27	268	.90	.88
MAY									
17-18	35	12	.10	14	210	.29	--	.90	.93
18...	--	--	--	--	--	--	--	--	--
JUL									
12-13	44	15	.20	14	260	.35	--	1.9	1.9
13...	--	--	--	--	--	--	--	--	--
AUG									
30-31	50	17	.30	16	290	.40	--	2.5	2.5
31...	--	--	--	--	--	--	--	--	--
SEP									
27...	--	--	--	--	--	--	--	--	--

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)
NOV									
16-17	.06	<.06	1.9	--	2.0	1.2	5.4	.11	<.01
17...	--	--	--	--	--	--	--	--	--
JAN									
11...	--	--	--	--	--	--	--	--	--
19-20	.08	<.06	1.2	--	1.3	.20	5.3	.19	.08
19...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
28...	.21	<.06	1.5	--	1.7	.70	2.6	.34	.10
FEB									
02...	--	--	--	--	--	--	--	--	--
09...	<.06	.12	--	.38	1.6	.50	1.9	.31	.06
09...	--	--	--	--	--	--	--	--	--
MAR									
02...	.14	.14	2.3	.66	2.4	.80	2.8	.45	.02
APR									
13...	.10	.08	.60	.62	.70	.70	1.6	.05	.02
MAY									
17-18	.10	<.06	1.0	--	1.1	.50	2.0	.11	.02
18...	--	--	--	--	--	--	--	--	--
JUL									
12-13	.08	.07	1.8	.83	1.9	.90	3.8	.35	.03
13...	--	--	--	--	--	--	--	--	--
AUG									
30-31	.07	.05	2.2	.55	2.3	.60	4.8	.28	.01
31...	--	--	--	--	--	--	--	--	--
SEP									
27...	--	--	--	--	--	--	--	--	--

See footnote at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

COYOTE CREEK BASIN--Continued
 11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

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)
NOV								
16-17	--	--	--	--	--	100	--	--
JAN								
19-20	--	--	--	--	--	100	--	--
28...	0800	60	3900	1	6	70	<1	1
FEB								
09...	0715	--	--	--	--	70	--	--
MAR								
02...	0750	--	--	--	--	70	--	--
APR								
13...	0745	--	--	--	--	70	--	--
MAY								
17-18	1800	--	--	--	--	80	--	--
JUL								
12-13	1800	--	--	--	--	90	--	--
AUG								
30-31	1800	<10	--	1	--	100	<1	--
31...	0730	--	2300	--	5	--	--	<1

DATE	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)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
16-17	--	--	--	--	--	3	--	--	--
JAN									
19-20	--	--	--	--	--	19	--	--	--
28...	<10	50	20	2	10	75	9500	<1	50
FEB									
09...	--	--	--	--	--	28	--	--	--
MAR									
02...	--	--	--	--	--	100	--	--	--
APR									
13...	--	--	--	--	--	10	--	--	--
MAY									
17-18	--	--	--	--	--	11	--	--	--
JUL									
12-13	--	--	--	--	--	5	--	--	--
AUG									
30-31	10	--	--	2	--	9	--	1	--
31...	--	20	20	--	10	--	5500	--	10

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	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/L 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)
NOV								
16-17	--	--	--	--	--	--	--	--
JAN								
19-20	--	--	--	--	--	--	--	--
28...	3	280	<.1	.10	<100	<1	<3	60
FEB								
09...	--	--	--	--	--	--	--	--
MAR								
02...	--	--	--	--	--	--	--	--
APR								
13...	--	--	--	--	--	--	--	--
MAY								
17-18	--	--	--	--	--	--	--	--
JUL								
12-13	--	--	--	--	--	--	--	--
AUG								
30-31	91	--	<.1	--	<100	--	100	--
31...	--	190	--	.05	--	<1	--	20

See footnote at end of table.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

COYOTE CREEK BASIN--Continued
11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	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)
NOV										
17...	0740	3.2	.20	--	--	--	--	--	--	--
JAN										
20...	0740	5.7	.60	--	--	--	--	--	--	--
28...	0800	5.6	2.4	<.20	<.2	<.020	<.2	<.020	.010	.010
FEB										
09...	0715	5.3	2.1	--	--	--	--	--	--	--
MAR										
02...	0750	5.0	2.8	--	--	--	--	--	--	--
APR										
13...	0745	3.4	.50	<.10	<.1	<.010	<.1	<.010	<.010	<.010
MAY										
18...	0730	3.0	.40	--	--	--	--	--	--	--
JUL										
13...	0730	2.7	.10	--	--	--	--	--	--	--
AUG										
31...	0730	2.0	.30	<.10	<.1	<.010	<.1	<.010	<.010	<.010

DATE	DI- ELDRIN TOTAL (UG/L)	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)
NOV										
17...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
28...	.010	.03	<.020	<.020	.01	<.020	<.020	<.020	<.01	<.02
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
APR										
13...	<.010	.02	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	<.010	<.01	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.01

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APRENE, TOTAL (UG/L)	TOTAL TRI- THION TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV										
17...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
28...	<.01	<.01	<.02	.01	<.2	<2	<.01	<.01	<.01	<.01
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
APR										
13...	<.01	<.01	<.01	<.01	<.1	<1	<.01	.01	<.01	<.01
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	<.01	<.01	<.01	<.01	<.1	<1	<.01	<.01	<.01	<.01

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

REDWOOD CREEK BASIN

LOCATION.--Lat 41°11'50", long 123°59'30", unsurveyed, Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on left bank 150 ft upstream from Harry Wier Creek, 7.2 mi southeast of Orick, and 14 mi upstream from mouth.

DRAINAGE AREA,--202 mi².

PERIOD OF RECORD.--Water years 1973-76, 1978-80, 1981 to current year.

CHEMICAL ANALYSES: Water years 1973-76, 1978.

SEDIMENT RECORDS: Water years 1974-76, 1978-80, 1981 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 1982 TO SEPTEMBER 1983

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 .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
NOV											
29...	1220	4940	10.0	994	13300	--	27	38	50	63	--
29...	1410	4770	11.0	1010	13000	--	--	--	--	--	--
30...	1355	3940	9.5	657	6990	18	26	36	46	56	--
DEC											
16...	1435	12000	11.0	2880	93300	--	21	30	43	55	--
FEB											
10...	1255	9430	9.0	2520	64200	--	21	30	41	52	--
10...	1350	9270	9.5	2320	58100	--	--	--	--	--	--
12...	1225	4900	10.0	1580	20900	--	--	--	--	--	--
12...	1310	4850	10.0	1380	18100	--	--	--	--	--	--
MAR											
30...	1335	11600	10.0	2340	73300	--	21	26	39	50	60
30...	1455	11800	10.0	2050	65300	--	--	--	--	--	--

[illegible]

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

REDWOOD CREEK BASIN
11482261 REDWOOD CREEK NEAR ORICK, CA

LOCATION.--Lat 41°13'46", long 124°00'38", in NE 1/4 sec. 25, T.10 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on right bank 80 ft downstream from Miller Creek, 4.7 mi southeast of Orick, and 10.1 mi upstream from mouth.

DRAINAGE AREA.--218 mi².

PERIOD OF RECORD.--Water years 1978 to current year.

SEDIMENT RECORDS: Water years 1978 to current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (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
NOV								
29...	1340	5780	11.5	1320	20600	21	29	39
29...	1445	5690	11.5	1020	15700	--	--	--
30...	1305	4450	10.0	655	7870	--	--	--
30...	1405	4440	10.0	662	7940	--	--	--
FEB								
10...	1310	10600	9.5	2690	77000	24	32	42
10...	1455	9580	9.5	2140	55400	--	--	--
12...	1215	5350	10.0	1240	17900	--	--	--
12...	1340	5270	10.5	1260	17900	--	--	--
MAR								
30...	1420	13200	10.0	2210	78800	22	29	42
30...	1555	13300	10.0	2130	76500	--	--	--

DATE	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							
29...	48	56	63	72	82	90	98
29...	--	67	75	85	94	99	100
30...	--	64	--	--	--	--	--
30...	--	65	--	--	--	--	--
FEB							
10...	55	64	76	86	92	95	98
10...	--	66	79	90	96	95	99
12...	--	65	--	--	--	--	--
12...	--	68	--	--	--	--	--
MAR							
30...	55	63	72	84	94	99	100
30...	--	63	--	--	--	--	--

LAKE MERRITT BASIN

OAKLAND HARBOR ESTUARY

LOCATION.--Lat 37°47'22", long 122°15'55", in Oakland, Alameda County, Hydrologic Unit 18050004.

PERIOD OF RECORD.--April 1980 to current year.

COOPERATION.--Water-quality samples were collected by Alameda County Flood Control and Water Conservation District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)
JAN , 1982										
12...	16600	8.0	9.5	--	16	.66	.28	1.1	.82	.16
FEB										
19...	20800	8.0	13.0	--	27	.60	.41	.93	.52	.12
MAR										
23...	27800	--	14.5	--	25	.12	.07	.72	.65	.11
APR										
06...	21100	8.0	12.5	--	24	.49	.17	.58	.41	.13
20...	30000	8.2	17.0	--	12	.15	.10	.57	.47	.11
MAY										
04...	23800	7.2	20.5	--	29	<.10	<.06	.63	--	.11
18...	28700	8.0	18.0	--	42	<.10	.07	1.6	1.5	.18
JUN										
02...	33400	8.1	17.0	--	68	<.10	.18	.40	.22	.11
17...	35900	8.1	18.5	--	274	<.10	.13	1.4	1.3	.22
29...	37900	8.0	20.0	--	43	<.10	<.07	.40	--	.12
JUL										
13...	35100	8.2	24.5	--	67	<.10	<.06	.30	--	.14
27...	35700	8.5	25.0	--	50	.31	.17	.60	.43	.20
AUG										
11...	39800	7.6	21.0	--	48	.24	.25	.90	.65	.23
24...	43100	7.8	21.0	--	62	.64	.18	1.0	.82	.21
SEP										
10...	42100	7.9	21.0	--	50	.30	.13	.40	.27	.23
OCT										
05...	39700	7.8	18.5	--	66	.20	.10	1.5	1.4	.21
NOV										
03...	37700	7.6	16.5	--	15	.50	.18	.90	.72	.24
DEC										
20...	33000	7.3	11.0	--	49	.40	.14	.60	.46	.21
JAN , 1983										
05...	27000	7.7	9.0	--	19	.50	.17	.90	.73	.20
FEB										
15...	19500	7.3	13.0	--	34	.60	.19	.90	.71	.16
MAR										
15...	12900	7.3	15.0	--	7	.50	.13	.80	.67	.15
APR										
07...	16900	8.4	14.5	--	55	.10	.19	1.1	.91	.17
21...	27300	7.8	15.0	--	62	<.10	.10	1.1	1.0	.17
MAY										
05...	25800	7.9	16.0	--	34	<.10	.18	.60	.42	.17
MAY , 1983										
19...	27600	7.8	21.0	7.8	25	<.10	.08	.30	.22	.14
JUN										
02...	30900	7.5	18.5	7.8	40	<.10	.06	.40	.34	.14
21...	32900	7.3	20.5	6.8	31	.30	.16	.50	.34	.18
30...	33500	7.3	20.0	7.6	8	.20	.09	.40	.31	.21
JUL										
13...	35700	7.8	22.0	--	55	.10	.06	.70	.64	.16
28...	36800	7.6	20.5	8.8	57	.20	.10	.70	.60	.19
AUG										
11...	38800	7.5	21.5	--	--	.10	.11	.70	.59	.18
SEP										
14...	35000	7.5	23.5	--	7	<.10	.13	.50	.37	.03

See footnote at end of table.

LAKE MERRITT BASIN--Continued

LAKE MERRITT AT LAKE CENTER

LOCATION.--Lat 37°48'07", long 122°15'27", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water years 1981 to current year.

COOPERATION.--Water-quality samples were collected by Alameda County Flood Control and Water Conservation District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)
JAN , 1982										
12...	4750	7.4	9.5	--	15	2.1	.650	1.8	1.1	.34
FEB										
18...	24100	10.6	14.0	--	74	.13	.550	1.0	.45	.14
MAR										
23...	27300	8.4	14.0	--	17	<.10	.100	.68	.58	.14
APR										
06...	2010	7.4	13.0	--	20	.95	.330	1.5	1.1	.30
20...	13900	8.9	18.5	--	25	<.10	.120	.67	.55	.13
MAY										
04...	25600	8.3	18.5	--	74	<.10	<.060	.85	--	.29
18...	25800	8.5	20.0	--	35	.20	<.060	1.1	--	.18
JUN										
02...	28700	8.7	19.0	--	84	<.10	.140	.40	.26	.14
17...	31400	8.5	21.0	--	38	<.10	.080	1.1	1.1	.16
29...	34400	8.4	20.5	--	34	<.10	<.070	.50	--	.13
JUL										
13...	34700	8.3	25.5	--	117	<.10	.060	1.1	1.1	.17
27...	37500	8.6	20.0	--	42	<.10	.140	1.1	.96	.22
AUG										
11...	36200	8.1	21.5	--	53	<.10	.090	1.3	1.1	.24
24...	38600	8.9	22.0	--	56	1.1	<.060	1.1	--	.17
SEP										
10...	41800	8.3	21.5	--	30	.30	.060	1.5	1.4	.18
OCT										
05...	38300	8.1	19.0	--	43	<.10	<.060	1.4	--	.16
NOV										
03...	34400	7.1	17.5	--	44	.10	1.00	1.9	.90	.55
DEC										
20...	29300	8.6	12.5	--	45	<.10	.100	.90	.80	.22
JAN , 1983										
05...	23300	8.0	9.5	--	22	.30	.160	1.4	1.1	.23
FEB										
15...	12600	6.7	13.5	--	36	<.10	2.00	1.9	.00	.82
APR										
07...	15600	8.4	15.0	--	50	<.10	.110	1.4	1.3	.21
21...	20500	7.9	17.5	--	27	<.10	.300	1.1	.90	.26
MAY										
05...	18500	7.1	18.0	--	11	.80	.260	1.3	1.0	.30
19...	27800	7.8	20.5	6.6	37	<.10	<.060	.50	--	.14
JUN										
02...	30600	8.0	21.0	11.8	46	<.10	<.060	.80	--	.08
JUN , 1983										
21...	32100	--	23.5	10.7	26	<.10	<.060	.60	--	.13
30...	33300	7.7	21.5	10.1	64	<.10	<.060	1.6	--	.16
JUL										
13...	34800	8.1	23.5	--	37	<.10	.040	.80	.76	.14
AUG										
11...	36600	8.4	23.0	--	14	<.10	.040	1.5	1.5	1.2

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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
NOV											
18...	1000	105	--	63	18	--	--	--	--	--	--
19...	1500	62	7.5	6	1.0	--	--	--	--	--	--
28...	2145	130	--	108	38	--	--	--	--	--	--
29...	0730	86	8.0	26	6.0	--	--	--	--	--	--
29...	1500	105	8.5	11	3.1	45	--	--	--	--	--
30...	1045	72	7.5	18	3.5	--	--	--	--	--	--
DEC											
05...	1515	78	9.5	11	2.3	--	--	--	--	--	--
16...	1225	167	8.5	103	52	32	--	--	--	--	--
JAN											
24...	0715	98	6.0	16	4.2	--	--	--	--	--	--
25...	2400	98	7.0	32	8.5	--	--	--	--	--	--
26...	0500	108	7.0	30	8.7	--	--	--	--	--	--
26...	0930	130	7.5	161	57	--	--	--	--	--	--
26...	1330	265	7.5	129	92	--	--	--	--	--	--
26...	1435	310	7.5	209	175	24	28	35	47	70	91
26...	1500	335	7.5	228	206	--	--	--	--	--	--
27...	1120	230	8.0	64	40	--	--	--	--	--	--
27...	1615	195	7.5	24	13	--	--	--	--	--	--
28...	0015	180	6.5	20	9.7	--	--	--	--	--	--
28...	0925	165	7.5	12	5.3	--	--	--	--	--	--
FEB											
15...	1330	153	7.5	31	13	--	--	--	--	--	--
MAR											
13...	1000	180	6.5	71	35	--	--	--	--	--	--
13...	2145	140	6.5	28	11	--	--	--	--	--	--
14...	1045	130	7.5	11	3.9	--	--	--	--	--	--
24...	1330	108	6.0	22	6.4	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORDS STATION

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (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								
28...	1630	140	8.5	149	56	--	--	--
JAN								
22...	1430	99	9.0	15	4.0	--	--	--
23...	2145	163	9.0	1010	445	--	--	--
25...	2230	205	8.5	488	270	--	--	--
26...	0100	270	8.5	573	418	--	--	--
26...	0700	290	9.0	499	391	--	--	--
26...	1130	530	9.5	1610	2300	--	--	--
26...	1715	580	10.0	1640	2570	15	21	29
26...	2015	530	9.0	1030	1470	--	--	--
27...	1030	330	9.0	424	378	--	--	--
27...	1540	290	9.5	314	246	--	--	--
27...	2300	232	8.5	226	142	--	--	--
FEB								
14...	1345	196	--	167	88	--	--	--

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								
28...	--	--	43	--	--	--	--	--
JAN								
22...	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--
26...	38	46	53	61	72	85	94	100
26...	--	--	--	--	--	--	--	--
27...	--	--	57	66	76	87	95	100
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
FEB								
14...	--	--	62	70	79	89	100	--

WATER-QUALITY DATA, WATER YEARS OCTOBER 1982 TO SEPTEMBER 1983

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 current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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
DEC 23...	1245	662	8.5	363	649	--	--	--
APR 13...	2115	2540	8.0	1160	7960	8	13	18
15...	1125	1350	7.0	298	1090	2	12	20
15...	1515	1500	10.0	318	1290	--	--	--
16...	1300	760	10.0	185	380	--	--	--

DATE	TIME	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
DEC 23...	--	--	--	34	39	47	57	73	80
APR 13...	25	32	39	48	59	74	88	98	98
15...	30	39	47	57	69	82	94	100	100
15...	--	--	64	--	--	--	--	--	--
16...	--	--	40	47	56	69	86	100	100

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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 19...	1455	970	9.5	210	550	--	--	--
JAN 28...	1305	770	8.5	186	387	--	--	--
FEB 09...	1550	1120	7.5	639	1930	28	29	39
10...	0030	3850	7.5	2140	22200	--	25	29
10...	0745	2520	7.5	1070	7280	16	19	27

DATE	TIME	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 19...	--	--	--	58	64	71	82	92	100
JAN 28...	--	--	--	61	70	81	89	95	100
FEB 09...	49	59	68	76	85	93	96	100	100
10...	41	53	66	76	85	92	97	100	100
10...	35	45	54	64	74	82	90	93	93

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL RECORDS STATION

WATER-QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

TRINITY RIVER BASIN
MILL CREEK NEAR HOOPA, CA

LOCATION.--Lat 41°09'18", long 123°34'40", in NE 1/4 NW 1/4 sec.23, T.9 N., R.5 E., Hoopa Valley Indian Reservation, Humboldt County, Hydrologic Unit 18010211, on right bank downstream side of bridge on Long Ridge Road, 250 ft downstream from right-bank tributary, 0.5 mi downstream from North Fork and 8.5 mi northeast of Hoopa.

PERIOD OF RECORD.--October 1981 to current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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						
30...	1300	177	6.5	6	2.9	59
DEC						
15...	0115	145	6.5	6	2.3	--
15...	0430	165	6.5	11	4.9	--
15...	0730	266	6.5	14	10	--
15...	1025	368	6.5	35	35	--
15...	1400	530	8.0	76	109	--
15...	1800	510	7.5	22	30	--
16...	0915	980	6.5	184	487	--
17...	0700	730	7.5	266	524	--
17...	1115	680	6.5	68	125	--
17...	1315	605	7.5	59	96	32
17...	1450	575	6.5	50	78	--
18...	1115	350	7.5	19	18	--
JAN						
18...	1330	156	7.0	5	2.1	26
27...	1205	680	6.5	208	382	--
MAR						
22...	1730	188	4.5	9	4.6	--
24...	1120	238	4.5	6	3.9	--
30...	0045	730	7.0	43	85	--
30...	1100	880	5.5	87	207	--
31...	1120	575	9.0	16	25	--
APR						
01...	1010	440	7.5	15	18	--

ALAMEDA COUNTY

Livermore Valley Basin (2-10)

WELL 003S002E08P02H

SITE NUMBER 374049121463301

IN LIVERMORE. DRILLED MUNICIPAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 412 FT. ALTITUDE OF LSD 463 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT ZONE 7. RECORDS AVAILABLE 1940 TO CURRENT YEAR.

HIGHEST WATER LEVEL 40.0 FEET BELOW LAND SURFACE DATUM APR 01, 1979.

LOWEST WATER LEVEL 191. FEET BELOW LAND SURFACE DATUM AUG 31, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1982	65.	MAR 1983	57.	JUN 1983	71.	SEP 1983	90.
DEC	63.						

WELL 003S002H29F04H

SITE NUMBER 373841122062001

IN HAYWARD. DUG IRRIGATION WATER-TABLE WELL IN ALLUVIAL FAN DEPOSITS OF QUATERNARY AGE. DIAM 10 IN, DEPTH 120 FT. ALTITUDE OF LSD 40 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1959 TO CURRENT YEAR.

HIGHEST WATER LEVEL 12.4 FEET BELOW LAND SURFACE DATUM MAY 20, 1983.

LOWEST WATER LEVEL 23.2 FEET BELOW LAND SURFACE DATUM NOV 03, 1916.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1982	15.8	MAY 20, 1983	12.4

WELL 005S001H06H04H

SITE NUMBER 373150122003201

IN NEWARK. DRILLED AQUIFER-RECLAMATION WATER-TABLE WELL IN ALLUVIAL FAN DEPOSITS. DIAM 10-16 IN, DEPTH 279 FT, LOUVERS 199-271 FT. ALTITUDE OF LSD 26.0 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY WATER DISTRICT. RECORDS AVAILABLE 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 29.0 FEET BELOW LAND SURFACE DATUM FEB 17, 1983.

LOWEST WATER LEVEL 63.50 FEET BELOW LAND SURFACE DATUM SEP 29, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 29, 1982	54.0 P	MAR 10, 1983	45.0 P	JUN 17, 1983	34.0	SEP 08, 1983	40.0
JAN 21, 1983	52.0 P	APR 15	46.0 P	JUL 15	36.5		
FEB 17	29.0	MAY 20	30.0	AUG 12	37.5		

GROUND WATER

CONTRA COSTA COUNTY

Pittsburg Plain Basin (2-4)

WELL 002N001E18C01M

SITE NUMBER 380131121543101

1 MI SOUTHWEST OF PITTSBURG. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE.
DIAM UNKNOWN, DEPTH 205 FT. ALTITUDE OF LSD 21 FT. RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 16.29 FEET BELOW LAND SURFACE DATUM APR 25, 1983.

LOWEST WATER LEVEL 19.57 FEET BELOW LAND SURFACE DATUM OCT 28, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 25, 1983	16.29

WELL 002N001E18D01M

SITE NUMBER 380129121543901

1 MI SOUTHWEST OF PITTSBURG. DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE.
DIAM 8 IN, DEPTH 125 FT. ALTITUDE OF LSD 25 FT. RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 18.37 FEET BELOW LAND SURFACE DATUM APR 25, 1983.

LOWEST WATER LEVEL 28.4 FEET BELOW LAND SURFACE DATUM OCT 15, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 25, 1983	18.37

Clayton Valley Basin (2-5)

WELL 002N002W13P01M

SITE NUMBER 380049122015301

NEAR PORT CHICAGO. DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN,
DEPTH 139 FT. ALTITUDE OF LSD 45 FT. RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 19.61 FEET BELOW LAND SURFACE DATUM APR 21, 1978

LOWEST WATER LEVEL 32.28 FEET BELOW LAND SURFACE DATUM APR 18, 1979

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 25, 1983	21.10

DEL NORTE COUNTY

Lower Klamath River Valley Basin (1-14)

WELL 013M001E15R01H

SITE NUMBER 413043124020701

NEAR KLAMATH. DRILLED TEST WATER-TABLE WELL. DIAM UNKNOWN, DEPTH 200 FT. NO CASING INSTALLED. ALTITUDE OF LSD 50 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 6.0 FEET BELOW LAND SURFACE DATUM MAR 30, 1983.

LOWEST WATER LEVEL 18.4 FEET BELOW LAND SURFACE DATUM SEP 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1982	17.6 R	MAR 30, 1983	6.0

Smith River Plain Basin (1-1)

WELL 016N001W17K01H

SITE NUMBER 414643124115601

ABOUT 1.5 MI NORTH OF CRESCENT CITY. DRILLED DOMESTIC WATER-TABLE WELL IN THE BATTERY FORMATION OF PLEISTOCENE AGE. DIAM 6 IN, DEPTH 39 FT, PERFORATED 34-39 FT. ALTITUDE OF LSD 48 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953-1954, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.60 FEET BELOW LAND SURFACE DATUM MAR 03, 1983.

LOWEST WATER LEVEL 24.5 FEET BELOW LAND SURFACE DATUM NOV 01, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1982	22.0	MAR 03, 1983	0.60

WELL 018N001W35B02H

SITE NUMBER 415455124082901

NEAR SMITH RIVER. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 12 IN, DEPTH 55 FT, PERFORATED 40-55 FT. ALTITUDE OF LSD 90 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1956 TO CURRENT YEAR.

HIGHEST WATER LEVEL 18.4 FEET BELOW LAND SURFACE DATUM NOV 28, 1956.

LOWEST WATER LEVEL 33.0 FEET BELOW LAND SURFACE DATUM OCT 19, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1982	33.0	MAR 31, 1983	18.5

HUMBOLDT COUNTY

Mattole River Valley Basin (1-28)

WELL 002S002W03E01H

SITE NUMBER 401843124170301

NEAR PETROLIA. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF THE COAST RANGE OF PLEISTOCENE-HOLOCENE AGE. DIAM 8 IN, DEPTH 50 FT. ALTITUDE OF LSD 100 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 13.80 FEET BELOW LAND SURFACE DATUM MAR 04, 1980.

LOWEST WATER LEVEL 16.2 FEET BELOW LAND SURFACE DATUM SEP 20, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 20, 1982	15.57

GROUND WATER

HUMBOLDT COUNTY--Continued

Mattole River Valley Basin (1-28)

WELL 002S002W09H01H

SITE NUMBER 401928124171801

NEAR PETROLIA. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF THE COAST RANGE OF PLIOCENE-HOLOCENE AGE. DIAM 8 IN, DEPTH 34 FT. ALTITUDE OF LSD 76 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.04 FEET BELOW LAND SURFACE DATUM MAR 04, 1980.

LOWEST WATER LEVEL 13.51 FEET BELOW LAND SURFACE DATUM OCT 20, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 20, 1982	13.51

Eel River Valley Basin (1-10)

WELL 003N001W30H01H

SITE NUMBER 403633124135701

NEAR FORTUNA. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 14 IN, DEPTH 48 FT. ALTITUDE OF LSD 19 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.0 FEET BELOW LAND SURFACE DATUM MAR 30, 1983.

LOWEST WATER LEVEL 22.3 FEET BELOW LAND SURFACE DATUM OCT 20, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 30, 1983	7.0

WELL 003N001W34J01H

SITE NUMBER 403550124093101

IN SOUTHWEST CORNER OF CITY OF FORTUNA. DRILLED UNUSED ARTESIAN WELL IN THE CARLOTTA FORMATION OF PLIOCENE AGE. DIAM 12 IN, DEPTH 496 FT, PERFORATED 182-226, 285-365 FT. ALTITUDE OF LSD 53 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951-1953, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 28. FEET BELOW LAND SURFACE DATUM APR 11, 1967.

LOWEST WATER LEVEL 37.4 FEET BELOW LAND SURFACE DATUM NOV 09, 1952.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1982	36.6	MAR 30, 1983	29.5

Eureka Plain Basin (1-9)

WELL 004N001W16H01H

SITE NUMBER 404353124105001

NEAR FIELDS LANDING. DRILLED STOCK WATER-TABLE WELL IN HOOKTON FORMATION OF PLEISTOCENE AGE. DIAM UNKNOWN, DEPTH 210 FT. ALTITUDE OF LSD 10 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.0 FEET BELOW LAND SURFACE DATUM OCT 16, 1981.

LOWEST WATER LEVEL 38.9 FEET BELOW LAND SURFACE DATUM SEP 25, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 30, 1983	20.1

HUMBOLDT COUNTY--Continued

Mad River Valley Basin (1-8)

WELL 006H001E19Q01H

SITE NUMBER 405302124063201

NEAR ARCATA. DRILLED DOMESTIC WATER-TABLE WELL IN FLOOD BASIN DEPOSITS OF HOLOCENE AGE. DIAM 8 IN, DEPTH 108 FT. ALTITUDE OF LSD 19 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.7 FEET BELOW LAND SURFACE DATUM APR 15, 1958.

LOWEST WATER LEVEL 18.5 FEET BELOW LAND SURFACE DATUM NOV 06, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1982	14.2	MAR 30, 1983	5.9

Big Lagoon Area Basin (1-27)

WELL 009H001H24C01H

SITE NUMBER 410927124074701

IN BIG LAGOON NEAR TRINIDAD. DRILLED UNUSED WATER-TABLE WELL IN HOOKTON FORMATION OF HOLOCENE AGE. DIAM 12 IN, DEPTH 130 FT, PERFORATED 0-130 FT. ALTITUDE OF LSD 105 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.0 FEET BELOW LAND SURFACE DATUM MAR 30, 1983.

LOWEST WATER LEVEL 28.2 FEET BELOW LAND SURFACE DATUM NOV 05, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1982	23.5	MAR 30, 1983	14.0

Prarie Creek Area Basin (1-25)

WELL 011H001E02R01H

SITE NUMBER 412150124010301

NEAR ORICK. DRILLED PUBLIC SUPPLY WATER-TABLE WELL IN ALLUVIUM OF THE COAST RANGE OF PLIOCENE-HOLOCENE AGE. DIAM 12 IN, DEPTH 53 FT. ALTITUDE OF LSD 170 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.2 FEET BELOW LAND SURFACE DATUM MAR 31, 1982.

LOWEST WATER LEVEL 13.3 FEET BELOW LAND SURFACE DATUM SEP 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 18, 1982	13.1

MENDOCINO COUNTY

Sanel Valley Basin (2-16)

WELL 013H011H18E01H

SITE NUMBER 385917123070401

1.2 MI NORTH OF HOPLAND. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 52 FT. ALTITUDE OF LSD 490 FT. RECORDS AVAILABLE 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.7 FEET BELOW LAND SURFACE DATUM MAR 26, 1975.

LOWEST WATER LEVEL 13.6 FEET BELOW LAND SURFACE DATUM AUG 04, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1982	13.52	APR 12, 1983	9.6

GROUND WATER

MENDOCINO COUNTY--Continued

Ukiah Valley Basin (2-15)

WELL 015N012W08L01M

SITE NUMBER 391026123123201

1 MI NORTH OF UKIAH. DRILLED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM 12 IN, DEPTH 62 FT. ALTITUDE OF LSD 640 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951-1955, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.1 FEET BELOW LAND SURFACE DATUM MAR 09, 1962.

LOWEST WATER LEVEL 30.6 FEET BELOW LAND SURFACE DATUM DEC 05, 1959.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1982	24.2 S	APR 11, 1983	16.8 S

Potter Valley Basin (2-14)

WELL 017N011W10J01M

SITE NUMBER 391944123065701

ABOUT 2.5 MI SOUTHEAST OF POTTER VALLEY. DRILLED DOMESTIC ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN, DEPTH 36 FT. ALTITUDE OF LSD 955 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951-1955, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.9 FEET ABOVE LAND SURFACE DATUM FEB 20, 1961.

LOWEST WATER LEVEL 5.2 FEET BELOW LAND SURFACE DATUM OCT 13, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 04, 1982	1.1

Little Lake Valley (1-13)

WELL 018N013W10E01M

SITE NUMBER 392459123210301

IN HILLITS. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE AND CONTINENTAL DEPOSITS OF PLIOCENE AND PLEISTOCENE AGE. DIAM 12 IN, DEPTH 493 FT. ALTITUDE OF LSD 1350 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.8 FEET BELOW LAND SURFACE DATUM APR 18, 1974.

LOWEST WATER LEVEL 37.6 FEET BELOW LAND SURFACE DATUM OCT 24, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1982	22.4	MAR 29, 1983	18.4

WELL 018N013W20H04M

SITE NUMBER 392404123191201

NEAR HILLITS. DUG DOMESTIC WATER-TABLE WELL. DIAM 36 IN, DEPTH 26 FT. ALTITUDE OF LSD 1385 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.17 FEET BELOW LAND SURFACE DATUM APR 12, 1982.

LOWEST WATER LEVEL 18.32 FEET BELOW LAND SURFACE DATUM SEP 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1982	15.9	MAR 29, 1983	0.3

MENDOCINO COUNTY--Continued

Laytonville (1-12)

WELL 021N014N30H01H

SITE NUMBER 393837123281801

ABOUT 2 MI SOUTH OF LAYTONVILLE. DUG DOMESTIC AND IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE. SIZE 5X5 FT, DEPTH 23 FT, PERFORATED 19-23 FT. ALTITUDE OF LSD 1688 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1952-1955, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.0 FEET BELOW LAND SURFACE DATUM MAR 29, 1983.

LOWEST WATER LEVEL 20. FEET BELOW LAND SURFACE DATUM AUG 25, 1959.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1982	17.3	MAR 29, 1983	2.0

Round Valley (1-11)

WELL 022N013H12K01H

SITE NUMBER 394642123151501

NEAR COVELO. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 10 IN, DEPTH 180 FT, PERFORATED 22-37, 65-85, AND 105-180 FT. ALTITUDE OF LSD 1396 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1956 TO 1958, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.4 FEET BELOW LAND SURFACE DATUM APR 02, 1980.

LOWEST WATER LEVEL 34.0 FEET BELOW LAND SURFACE DATUM OCT 09, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21, 1982	27.0	MAR 29, 1983	5.1

MONTEREY COUNTY

Salinas Valley Basin (3-4)

WELL 013S002E29H02H

SITE NUMBER 364618121463701

NORTHWEST OF CASTROVILLE. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 12 IN, DEPTH 566 FT, PERFORATED 410-566 FT. ALTITUDE OF LSD 9 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.1 FEET BELOW LAND SURFACE DATUM DEC 12, 1974.

LOWEST WATER LEVEL 27.3 FEET BELOW LAND SURFACE DATUM NOV 22, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 26, 1983	14.5

WELL 013S002E33R01H

SITE NUMBER 364521121445301

NEAR CASTROVILLE. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 12 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 24.8 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1944 TO CURRENT YEAR.

HIGHEST WATER LEVEL 20.2 FEET BELOW LAND SURFACE DATUM MAR 04, 1952.

LOWEST WATER LEVEL 43.9 FEET BELOW LAND SURFACE DATUM SEP 01, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 21, 1983	25.3	SEP 22, 1983	35.5

GROUND WATER

MONTEREY COUNTY--Continued

Salinas Valley Basin (3-4)

WELL 014S003E18J01M

SITE NUMBER 364248121404701

NORTH OF SALINAS. DRILLED IRRIGATION WATER-TABLE WELL IN PASO ROBLES FORMATION OF PLEISTOCENE AGE. DIAM 16 IN, DEPTH 513 FT, PERFORATED 245-261, 418-434, 483-510 FT. ALTITUDE OF LSD 70 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 39.4 FEET BELOW LAND SURFACE DATUM MAR 17, 1932.

LOWEST WATER LEVEL 111.9 FEET BELOW LAND SURFACE DATUM OCT 01, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 26, 1983	77.5	SEP 22, 1983	95.4

WELL 015S001E26N02M

SITE NUMBER 363544121495201

NEAR SEASIDE. DRILLED DOMESTIC WATER-TABLE WELL IN QUATERNARY SYSTEM. DIAM 8 IN, DEPTH 100 FT. ALTITUDE OF LSD 120 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 48.0 FEET BELOW LAND SURFACE DATUM SEP 16, 1982.

LOWEST WATER LEVEL 67.0 FEET BELOW LAND SURFACE DATUM DEC 09, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 26, 1983	48.9

WELL 015S002E01Q01M

SITE NUMBER 363856121413701

2 MI SOUTHWEST OF SALINAS. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 196 FT, PERFORATED 79-196 FT. ALTITUDE OF LSD 42 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 13.5 FEET BELOW LAND SURFACE DATUM FEB 24, 1932.

LOWEST WATER LEVEL 64.9 FEET BELOW LAND SURFACE DATUM SEP 01, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 26, 1983	31.1	SEP 22, 1983	52.2

Carmel Valley Basin (3-7)

WELL 016S001E23K01M

SITE NUMBER 363136121491001

IN CARMEL VALLEY. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 92 FT, PERFORATIONS 50-54, 72-88 FT. ALTITUDE OF LSD 105 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.1 FEET BELOW LAND SURFACE DATUM MAR 07, 1961.

LOWEST WATER LEVEL 66.9 FEET BELOW LAND SURFACE DATUM DEC 01, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 04, 1983	17.6	SEP 06, 1983	20.5

MONTEREY COUNTY--Continued

Carmel Valley Basin (3-7)

WELL 016S001W13L01H

SITE NUMBER 363216121545401

NEAR CARMEL. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN, DEPTH UNKNOWN. ALTITUDE OF LSD 13.7 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.0 FEET BELOW LAND SURFACE DATUM JUN 01, 1980.

LOWEST WATER LEVEL 0.0 FEET BELOW LAND SURFACE DATUM DEC 20, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 05, 1983	3.4	AUG 03, 1983	4.6

Salinas Valley Basin (3-4)

WELL 016S005E17R01H

SITE NUMBER 363208121261301

NORTH OF GONZALES. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 15 IN, DEPTH 299 FT. ALTITUDE OF LSD 181 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1916 TO CURRENT YEAR.

HIGHEST WATER LEVEL 89.9 FEET BELOW LAND SURFACE DATUM JAN 02, 1916.

LOWEST WATER LEVEL 146.0 FEET BELOW LAND SURFACE DATUM AUG 26, 1932.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 26, 1983	116.4

WELL 018S006E15F01H

SITE NUMBER 362150121182401

NEAR SOLEDAD. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 215 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1916 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.5 FEET BELOW LAND SURFACE DATUM MAY 06, 1941.

LOWEST WATER LEVEL 100.2 FEET BELOW LAND SURFACE DATUM MAR 01, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
NOV 29, 1982	26.5

WELL 018S006E15H01H

SITE NUMBER 362140121184501

SOUTH OF SOLEDAD. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 14 IN, DEPTH 289 FT, PERFORATIONS 104-239, 255-288 FT. ALTITUDE OF LSD 277 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 76.0 FEET BELOW LAND SURFACE DATUM MAY 06, 1941.

LOWEST WATER LEVEL 122.1 FEET BELOW LAND SURFACE DATUM NOV 25, 1948.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 26, 1983	95.6	SEP 26, 1983	111.4

GROUND WATER

MONTEREY COUNTY--Continued

Salinas Valley Basin (3-4)

WELL 019S007E10P01M

SITE NUMBER 361714121114601

3.5 MI SOUTHEAST OF GREENFIELD. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 16 IN, DEPTH 245 FT. ALTITUDE OF LSD 315 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 73.0 FEET BELOW LAND SURFACE DATUM MAY 13, 1937.

LOWEST WATER LEVEL 113.3 FEET BELOW LAND SURFACE DATUM MAR 02, 1948.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 19, 1983	75.6	SEP 20, 1983	92.8

WELL 022S010E16P01M

SITE NUMBER 360036120535301

1 MI SOUTH OF SAN ARDO. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 16 IN, DEPTH 178 FT, PERFORATED 40-178 FT. ALTITUDE OF LSD 425 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 20.9 FEET BELOW LAND SURFACE DATUM APR 18, 1983.

LOWEST WATER LEVEL 31.0 FEET BELOW LAND SURFACE DATUM NOV 19, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 18, 1983	20.9	SEP 19, 1983	22.3

Lockwood Valley Basin (3-6)

WELL 023S008E02N01M

SITE NUMBER 355732121041501

0.75 MI NORTH OF LOCKWOOD. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 272 FT, PERFORATED 70-272 FT. ALTITUDE OF LSD 1040 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 89.3 FEET BELOW LAND SURFACE DATUM MAR 09, 1962.

LOWEST WATER LEVEL 136.6 FEET BELOW LAND SURFACE DATUM JUL 15, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 15, 1983	103.2	AUG 15, 1983	101.8

Caloma Valley Basin (3-5)

WELL 023S014E27H01M

SITE NUMBER 355405120263301

0.6 MI WEST OF PARKFIELD. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 1533 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 16.18 FEET BELOW LAND SURFACE DATUM APR 19, 1983.

LOWEST WATER LEVEL 41.9 FEET BELOW LAND SURFACE DATUM SEP 21, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 19, 1983	16.18

NAPA COUNTY

Napa Valley Basin (2-2.01)

WELL 006N004H17A01H

SITE NUMBER 382218122190101

ABOUT 4 MI NORTH OF NAPA. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 250 FT. ALTITUDE OF LSD 67 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1949 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.3 FEET ABOVE LAND SURFACE DATUM MAR 22, 1983.

LOWEST WATER LEVEL 49.9 FEET BELOW LAND SURFACE DATUM MAR 11, 1977.

WATER LEVELS IN FEET ABOVE OR BELOW(-) LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 1982	-11.8	MAR 22, 1983	0.3

WELL 007N005W15A01H

SITE NUMBER 382743122233501

NEAR RUTHERFORD. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 355 FT. ALTITUDE OF LSD 143 FT. RECORDS FURNISHED BY NAPA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1934, 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.8 FEET BELOW LAND SURFACE DATUM FEB 01, 1978.

LOWEST WATER LEVEL 32.0 FEET BELOW LAND SURFACE DATUM APR 22, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1982	17.0	APR 07, 1983	4.6

WELL 008N006H10Q01H

SITE NUMBER 383326122311801

ABOUT 3.5 MI SOUTHEAST OF CALISTOGA. DRILLED STOCK AND IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 184 FT. ALTITUDE OF LSD 290 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1949 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.1 FEET BELOW LAND SURFACE DATUM MAR 20, 1967.

LOWEST WATER LEVEL 40.75 FEET BELOW LAND SURFACE DATUM SEP 14, 1950.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 1982	8.4	MAR 22, 1983	5.3

SAN BENITO COUNTY

Gilroy-Hollister Valley Basin (3-3)

WELL 012S005E05G01H

SITE NUMBER 365519121263501

NEAR HOLLISTER. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE AND PURISIMA FORMATION OF PLIOCENE AGE. DIAM 14 IN, DEPTH 500 FT, PERFORATED 150-500 FT. ALTITUDE OF LSD 175 FT. MEASUREMENTS FURNISHED BY COUNTY OF SAN BENITO. RECORDS AVAILABLE 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 75.0 FEET BELOW LAND SURFACE DATUM OCT 01, 1983.

LOWEST WATER LEVEL 113.5 FEET BELOW LAND SURFACE DATUM OCT 01, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1982	93.5	MAR 1983	77.0

GROUND WATER

SAN BENITO COUNTY--Continued

Gilroy-Hollister Valley Basin (3-3)

WELL 012S005E09K01M

SITE NUMBER 365407121251901

NORTH OF HOLLISTER. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 14 IN, DEPTH 195 FT, PERFORATED 88-90, 94-110, 134-145, 160-167, 173-180, 184-195 FT. ALTITUDE OF LSD 213 FT. MEASUREMENTS FURNISHED BY COUNTY OF SAN BENITO. RECORDS AVAILABLE 1949 TO CURRENT YEAR.

HIGHEST WATER LEVEL 69.5 FEET BELOW LAND SURFACE DATUM FEB 07, 1968.

LOWEST WATER LEVEL 141. FEET BELOW LAND SURFACE DATUM OCT 01, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 1983	91.

SAN LUIS OBISPO COUNTY

Salinas Valley Basin (3-4)

WELL 026S014E35D01M

SITE NUMBER 353738120262801

4 MI SOUTHWEST OF SHANDON. DRILLED STOCK WATER-TABLE WELL IN PASO ROBLES FORMATION OF PLEISTOCENE AGE. DIAM 8 IN, DEPTH 290 FT. ALTITUDE OF LSD 1134.5 FT. MEASUREMENTS FURNISHED BY SAN LUIS OBISPO COUNTY. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 12.1 FEET BELOW LAND SURFACE DATUM APR 08, 1981.

LOWEST WATER LEVEL 176.7 FEET BELOW LAND SURFACE DATUM JAN 07, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAY 17, 1983	123.4

Los Osos Valley (3-8)

WELL 030S011E17H02M

SITE NUMBER 351858120483201

1.3 MI NORTHEAST OF LOS OSOS. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 210 FT. ALTITUDE OF LSD 38.56 FT. MEASUREMENTS FURNISHED BY SAN LUIS OBISPO COUNTY. RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.4 FEET BELOW LAND SURFACE DATUM APR 07, 1974.

LOWEST WATER LEVEL 30.7 FEET BELOW LAND SURFACE DATUM MAY 31, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAY 31, 1983	30.7

San Luis Obispo Valley Basin (3-9)

WELL 031S013E19H01M

SITE NUMBER 351258120364501

6 MI SOUTHEAST OF SAN LUIS OBISPO. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 262 FT. MEASUREMENTS FURNISHED BY SAN LUIS OBISPO COUNTY. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.3 FEET BELOW LAND SURFACE DATUM MAR 25, 1969.

LOWEST WATER LEVEL 43.1 FEET BELOW LAND SURFACE DATUM OCT 27, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 25, 1983	5.7

SAN MATEO COUNTY

Santa Clara Valley Basin (2-9.02)

WELL 004S004W29B01M

SITE NUMBER 373338122191301

IN SAN MATEO. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 180 FT. ALTITUDE OF LSD 32 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 24.01 FEET BELOW LAND SURFACE DATUM APR 18, 1979.

LOWEST WATER LEVEL 24.01 FEET BELOW LAND SURFACE DATUM APR 18, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 07, 1982	29.68 R

WELL 005S003W34H01M

SITE NUMBER 372722122100501

IN MENLO PARK. DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 16-8 IN, DEPTH 290 FT, PERFORATED 180-200, 250-270 FT. ALTITUDE OF LSD 53 FT. RECORDS AVAILABLE 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 30.85 FEET BELOW LAND SURFACE DATUM MAY 20, 1980.

LOWEST WATER LEVEL 53.90 FEET BELOW LAND SURFACE DATUM AUG 16, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 07, 1982	33.09

Half Moon Bay Terrace Basin (2-22)

WELL 005S005W32K01M

SITE NUMBER 372706122254301

0.5 MI SOUTH OF HALF MOON BAY. DRILLED UNUSED WATER-TABLE WELL IN TERRACE DEPOSITS OF PLEISTOCENE AGE. DIAM 12 IN, DEPTH 96 FT, PERFORATED 47-92 FT. ALTITUDE OF LSD 92 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 18.2 FEET BELOW LAND SURFACE DATUM APR 08, 1983.

LOWEST WATER LEVEL 47.7 FEET BELOW LAND SURFACE DATUM APR 26, 1961.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21, 1982	28.0	APR 08, 1983	18.2

WELL 005S006W11E03M

SITE NUMBER 373045122292801

5 MI NORTHWEST OF HALF MOON BAY. DRILLED UNUSED WATER-TABLE WELL IN TERRACE DEPOSITS OF PLEISTOCENE AGE. DIAM 12 IN, DEPTH 87 FT, PERFORATED 12-88 FT. ALTITUDE OF LSD 49 FT. RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.12 FEET BELOW LAND SURFACE DATUM APR 12, 1983.

LOWEST WATER LEVEL 29.54 FEET BELOW LAND SURFACE DATUM SEP 15, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 12, 1983	15.12

GROUND WATER

SAN MATEO COUNTY--Continued

San Gregorio Valley Basin (2-24)

WELL 007S005H15E02M

SITE NUMBER 371931122231001

NEAR SAN GREGORIO. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 30 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.9 FEET BELOW LAND SURFACE DATUM FEB 26, 1958.

LOWEST WATER LEVEL 21.7 FEET BELOW LAND SURFACE DATUM OCT 25, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21, 1982	15.9	APR 08, 1983	13.4

SANTA CLARA COUNTY

Santa Clara Valley Basin (2-9.02)

WELL 006S001H23E01M

SITE NUMBER 372349121564701

IN SANTA CLARA. DRILLED OBSERVATION WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM 14 IN, DEPTH 425 FT, PERFORATED 170-425 FT. ALTITUDE OF LSD 21.0 FT. RECORDER INSTALLED 1958-1981. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.20 FEET BELOW LAND SURFACE DATUM APR 11, 1975.

LOWEST WATER LEVEL 174.6 FEET BELOW LAND SURFACE DATUM JUL 18, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
JAN 10, 1983	2.50

WELL 006S003H01D10M

SITE NUMBER 372640122084901

IN PALO ALTO. DRILLED MUNICIPAL WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM 14 IN, DEPTH 600 FT, PERFORATED 165-172, 226-242, 252-272, 362-376, 425-433, 442-456, 570-592 FT. ALTITUDE OF LSD 31.4 FT. MEASUREMENTS FURNISHED BY SANTA CLARA VALLEY WATER DISTRICT. RECORDS AVAILABLE 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.9 FEET BELOW LAND SURFACE DATUM MAY 02, 1983.

LOWEST WATER LEVEL 103.0 FEET BELOW LAND SURFACE DATUM OCT 01, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1982	15.1	MAR 01, 1983	7.9	JUN 01, 1983	7.9	SEP 01, 1983	9.8
JAN 03, 1983	18.0	31	4.9	JUL 01	6.9		
FEB 01	9.8	MAY 02	3.9	AUG 01	8.9		

WELL 007S002H03D02M

SITE NUMBER 372130122042301

NEAR LOS ALTOS. DRILLED MUNICIPAL AND INDUSTRIAL WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM UNKNOWN, DEPTH 640 FT. ALTITUDE OF LSD 189 FT. MEASUREMENTS FURNISHED BY SANTA CLARA VALLEY WATER DISTRICT. RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 131.0 FEET BELOW LAND SURFACE DATUM MAR 01, 1974.

LOWEST WATER LEVEL 303.0 FEET BELOW LAND SURFACE DATUM JUL 01, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1982	202.0	DEC 29, 1982	183.0	MAY 01, 1983	175.9	JUL 01, 1983	192.9

SANTA CLARA COUNTY--Continued
Santa Clara Valley Basin (2-9.02)

WELL 009S002E01J01H

SITE NUMBER 371044121414701

4 MI NORTHWEST OF MORGAN HILL. DRILLED IRRIGATION WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM 12 IN, DEPTH 135 FT. ALTITUDE OF LSD 322 FT. MEASUREMENTS FURNISHED BY SANTA CLARA VALLEY WATER DISTRICT. RECORDS AVAILABLE 1936 TO CURRENT YEAR.

HIGHEST WATER LEVEL 6.66 FEET BELOW LAND SURFACE DATUM DEC 01, 1982.

LOWEST WATER LEVEL 102.7 FEET BELOW LAND SURFACE DATUM NOV 18, 1948.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 01, 1982	6.66	APR 05, 1983	15.1	MAY 31, 1983	18.0

SANTA CRUZ COUNTY

Pajaro Valley Basin (3-2)

WELL 011S002E29F03H

SITE NUMBER 365700121462701

1 MI NORTH OF FREEDOM. DRILLED IRRIGATION WATER-TABLE WELL IN AROMAS RED SAND OF PLEISTOCENE AGE. DIAM 14 IN, DEPTH 452 FT, PERFORATED 269-317, 422-442 FT. ALTITUDE OF LSD 130 FT. RECORDS AVAILABLE 1982.

HIGHEST WATER LEVEL 117.87 FEET BELOW LAND SURFACE DATUM MAR 15, 1983.

LOWEST WATER LEVEL 129.53 FEET BELOW LAND SURFACE DATUM SEP 15, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 15, 1983	117.87	AUG 11, 1983	122.54

WELL 012S001E13R01H

SITE NUMBER 365255121475801

3 MI SOUTHWEST OF WATSONVILLE. DRILLED IRRIGATION WATER-TABLE WELL IN AROMAS SAND OF PLEISTOCENE AGE. DIAM 12 IN, DEPTH 370 FT. ALTITUDE OF LSD 10 FT. RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2. FEET BELOW LAND SURFACE DATUM JUN 01, 1972.

LOWEST WATER LEVEL 28.0 FEET BELOW LAND SURFACE DATUM JUL 16, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 14, 1983	4.42	AUG 17, 1983	19.12

WELL 012S002E09C02H

SITE NUMBER 365425121452201

IN WATSONVILLE. DRILLED MUNICIPAL WATER-TABLE WELL IN PURISIMA FORMATION OF PLEISTOCENE AGE. DIAM 12 IN, DEPTH 177 FT, PERFORATED 98-147 FT. ALTITUDE OF LSD 23 FT. MEASUREMENTS FURNISHED BY CITY OF WATSONVILLE. RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.0 FEET BELOW LAND SURFACE DATUM FEB 17, 1969.

LOWEST WATER LEVEL 62.0 FEET BELOW LAND SURFACE DATUM AUG 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1982	40.0	JAN 11, 1983	26.00	APR 11, 1983	25.3	AUG 09, 1983	39.80
NOV 04	37.38	FEB 08	27.30	JUN 08	29.8	SEP 08	43.80
DEC 08	32.80	MAR 14	23.8	JUL 06	34.8		

GROUND WATER

SANTA CRUZ COUNTY--Continued

Pajaro Valley Basin (3-2)

WELL 012S003E06N02H

SITE NUMBER 365446121412001

4 MI EAST OF WATSONVILLE. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF PLIOCENE AGE. DIAM 10 IN, DEPTH 123 FT. ALTITUDE OF LSD 47 FT. RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 29.50 FEET BELOW LAND SURFACE DATUM APR 12, 1983.

LOWEST WATER LEVEL 64.2 FEET BELOW LAND SURFACE DATUM AUG 18, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1982	47.52	JAN 10, 1983	38.01	APR 12, 1983	29.50	JUL 06, 1983	37.33
NOV 08	43.85	FEB 09	34.05	MAY 10	37.62	AUG 08	39.48
DEC 07	39.91	MAR 08	30.05	JUN 07	32.74	SEP 09	44.72

SOLANO COUNTY

Suisun-Fairfield Valley Basin (2-3)

WELL 004N001E09H01H

SITE NUMBER 381218121524101

NEAR DENVERTON. DRILLED STOCK WATER-TABLE WELL IN TEHAMA FORMATION OF PLIOCENE AGE. DIAM 6 IN, DEPTH 285 FT, PERFORATED 174-176, 242-252, 269-285 FT. ALTITUDE OF LSD 95 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 60.4 FEET BELOW LAND SURFACE DATUM JUL 17, 1975.

LOWEST WATER LEVEL 62.7 FEET BELOW LAND SURFACE DATUM OCT 02, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 14, 1982	61.5

WELL 005N002H21P03H

SITE NUMBER 381543122052601

NEAR FAIRFIELD. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 204 FT. ALTITUDE OF LSD 60 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1959 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.5 FEET BELOW LAND SURFACE DATUM MAR 17, 1983.

LOWEST WATER LEVEL 47.5 FEET BELOW LAND SURFACE DATUM OCT 03, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1982	10.0	JAN 25, 1983	4.3	APR 20, 1983	5.0	AUG 25, 1983	9.1
18	10.0	FEB 23	3.0	MAY 26	6.8		
NOV 23	9.4	MAR 17	1.5	JUN 28	7.1		
DEC 14	6.9	30	2.3	JUL 28	7.8		

SONOMA COUNTY

Sonoma Valley Basin (2-2.02)

WELL 005N005H17C01H

SITE NUMBER 381700122261401

ABOUT 0.5 MI NORTH OF VINEBURG. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 6 IN, DEPTH 64 FT. ALTITUDE OF LSD 85 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1950 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.2 FEET BELOW LAND SURFACE DATUM MAR 14, 1958.

LOWEST WATER LEVEL 28.78 FEET BELOW LAND SURFACE DATUM JUN 06, 1950.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1982	11.4	APR 05, 1983	6.8

WELL 005N005H29H01H

SITE NUMBER 381452122264801

2.8 MI SOUTH OF SONOMA. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 100 FT. ALTITUDE OF LSD 16 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1. FEET BELOW LAND SURFACE DATUM APR 24, 1967.

LOWEST WATER LEVEL 19.6 FEET BELOW LAND SURFACE DATUM JAN 02, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20, 1982	13.2	APR 04, 1983	3.4

Petaluma Valley Basin (2-1)

WELL 005N007H20B02H

SITE NUMBER 381603122391101

2 MI SOUTH OF PENNGROVE. DRILLED STOCK WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN, DEPTH 158 FT. ALTITUDE OF LSD 41 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.6 FEET BELOW LAND SURFACE DATUM APR 01, 1955.

LOWEST WATER LEVEL 99.6 FEET BELOW LAND SURFACE DATUM JAN 11, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1982	42.6	APR 07, 1983	32.3

Santa Rosa Valley Basin (2-18)

WELL 006N008H07P02H

SITE NUMBER 382229122473101

5.5 MI NORTHWEST OF COTATI. DRILLED DOMESTIC AND IRRIGATION WATER-TABLE WELL IN THE MERCED FORMATION OF PLEISTOCENE AGE. DIAM 8 IN, DEPTH 120 FT. ALTITUDE OF LSD 95 FT. RECORDS AVAILABLE 1945 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.55 FEET BELOW LAND SURFACE DATUM APR 04, 1952.

LOWEST WATER LEVEL 63.2 FEET BELOW LAND SURFACE DATUM SEP 29, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15, 1982	40.2	FEB 24, 1983	21.7	MAY 25, 1983	20.3	AUG 24, 1983	47.4
NOV 30	27.6	MAR 30	16.8	JUN 29	21.3		
JAN 27, 1983	24.8	APR 19	17.4	JUL 27	29.3		

GROUND WATER

SONOMA COUNTY--Continued

Alexander Valley Basin (2-17)

WELL 010N009W18B01H

SITE NUMBER 384320122534201

1 MI NORTHEAST OF GEYSERVILLE. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, TERRACE DEPOSITS OF HOLOCENE AGE, AND CRETACEOUS-JURASSIC SYSTEMS. DIAM 10 IN, DEPTH 180 FT. ALTITUDE OF LSD 230 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1950 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.0 FEET BELOW LAND SURFACE DATUM MAR 26, 1975.

LOWEST WATER LEVEL 27.5 FEET BELOW LAND SURFACE DATUM AUG 23, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1982	21.0	APR 12, 1983	14.4

WELL 011N010W19F02H

SITE NUMBER 384717123004801

ABOUT 1 MI SOUTH OF CLOVERDALE. DRILLED UNUSED ARTESIAN WELL IN FRANCISCAN COMPLEX OF LATE JURASSIC TO LATE CRETACEOUS AGE, AND KNOXVILLE FORMATION OF LATE JURASSIC AGE. DIAM 8 IN, DEPTH 160 FT, PERFORATED 116-135 FT. ALTITUDE OF LSD 346 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1952 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.55 FEET BELOW LAND SURFACE DATUM APR 17, 1963.

LOWEST WATER LEVEL 17.32 FEET BELOW LAND SURFACE DATUM SEP 15, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1982	10.5	APR 12, 1983	4.8

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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
<i>Length</i>		
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)
<i>Area</i>		
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)
<i>Volume</i>		
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)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm 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)
<i>Flow</i>		
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)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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