



Water Resources Data for California

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

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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-79-2

WATER YEAR 1979

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

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CALENDAR FOR WATER YEAR 1979

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WATER YEAR 1979

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

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

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PREFACE

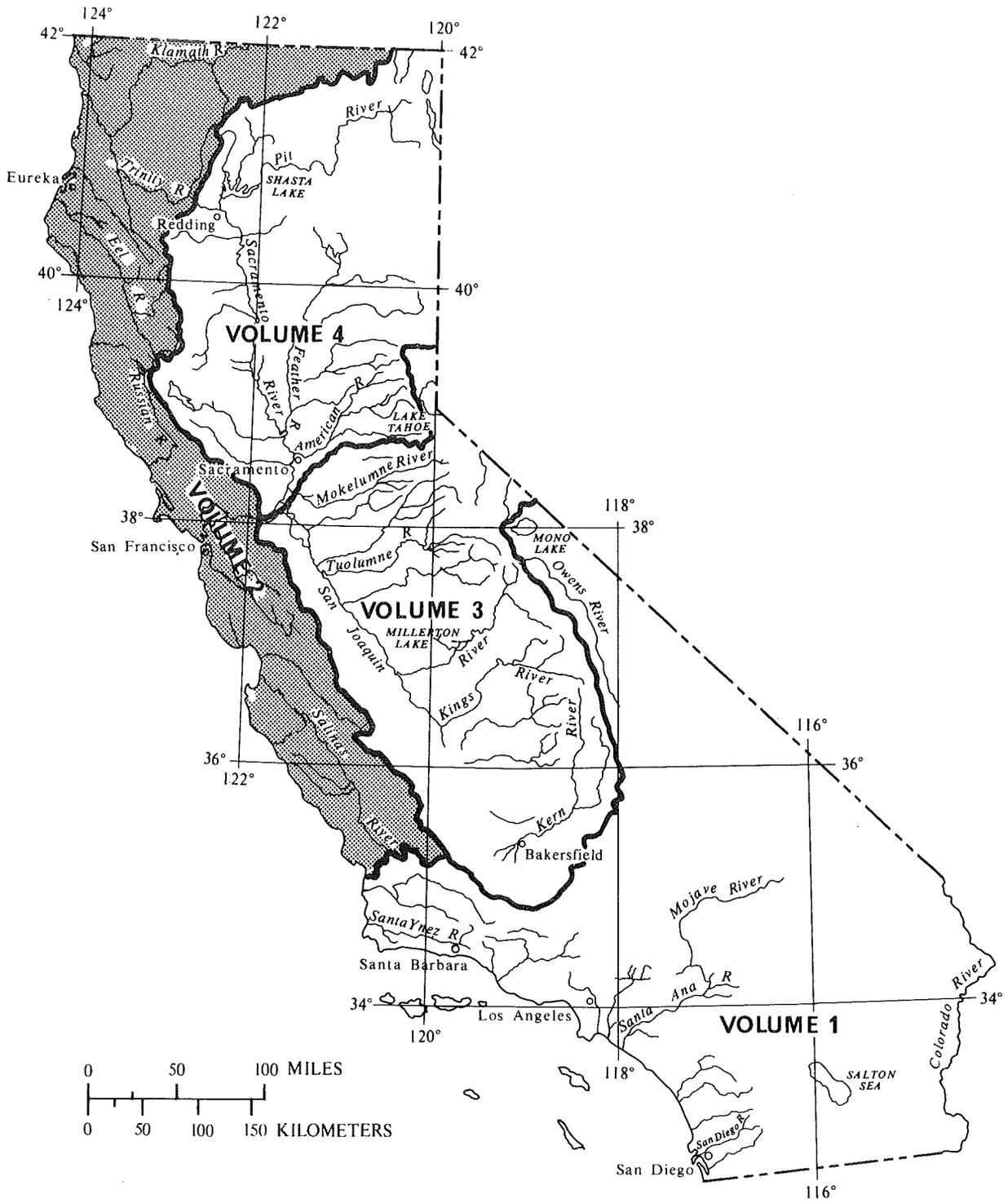
This report was prepared by personnel of the California District, Water Resources Division, U.S. Geological Survey, under the supervision of Richard M. Bloyd, District Chief, and J. D. Bredehoeft, Regional Hydrologist, Western Region. It was done in cooperation with the California Department of Water Resources and with other agencies.

This report is one of a series issued by State. General direction for the series is by Philip Cohen, Chief Hydrologist.

Data for California are in four volumes as follows:

- Volume 1. Colorado River Basin, 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

REPORT DOCUMENTATION PAGE	1. REPORT NO. USGS/WRD/HD-80/022	2.	3. Recipient's Accession No.
4. Title and Subtitle Water Resources Data for California, Water Year 1979 Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line except Central Valley		5. Report Date January 1981	
7. Author(s) U.S. Geological Survey		6.	
9. Performing Organization Name and Address U.S. Geological Survey, Water Resources Division California District 345 Middlefield Road Menlo Park, CA 94025		8. Performing Organization Rept. No. USGS-WDR-CA-79-2	
12. Sponsoring Organization Name and Address U.S. Geological Survey, Water Resources Division California District 345 Middlefield Road Menlo Park, CA 94025		10. Project/Task/Work Unit No.	
15. Supplementary Notes Prepared in cooperation with the California Department of Water Resources and with other agencies.		11. Contract(C) or Grant(G) No. (C) (G)	
16. Abstract (Limit: 200 words) Volume 2 of water resources data for the 1979 water year for California consists of records of stage, discharge, and water quality of streams and wells; stage, contents, and water quality in lakes and reservoirs; and water levels in wells. This report contains discharge records for 155 gaging stations; stage and contents for 20 lakes and reservoirs; water quality for 131 stations and 17 wells; water levels for 85 observation wells. Also included are 8 crest-stage partial-record stations and 8 low-flow 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.		13. Type of Report & Period Covered Annual--Oct. 1, 1978, to Sept. 30, 1979	
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		14.	
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 521
		20. Security Class (This Page) UNCLASSIFIED	22. Price



Area covered by volumes in the annual series on water-resources data for California. Area covered by this volume is shaded.

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

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WATER RESOURCES DATA FOR CALIFORNIA, 1979

Volume 2

INTRODUCTION

Water-resources data for the 1979 water year for California consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; records of water levels in selected observation wells; and selected chemical analyses of ground water. 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, 1200 South Eads Street, Arlington, Virginia 22202.

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-79-2." 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.

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:

California Department of Fish and Game, E. C. Fullerton, Director.
 California Department of Water Resources, R. B. Robie, Director.
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 David C. Joseph, Executive Officer.
 California State Water Resources Control Board, Clinton L. Whitney, Director.
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 P. E. Lanferman, Engineer-Manager.
 Alameda County Flood Control and Water Conservation District, Zone 7,
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 Alameda County Water District, M. P. Whitfield, General Manager-Chief Engineer.
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 J. E. Taylor, Deputy Chief Engineer.
 Gilroy, City of, Department of Public Works, David W. Hansen, Director.
 Marin County Department of Public Works, Ray W. Foreaker, Jr., Director.
 Marin Municipal Water District, J. Dietrich Stroeh, General Manager.
 Monterey County Flood Control and Water Conservation District,
 Loran Bunte, Jr., District Engineer.
 Napa County Department of Public Works, Harry D. Hamilton, Director.
 North Marin County Water District, John Olaf Nelson, Manager.
 San Benito County Water Conservation and Flood Control District,
 Ralph G. Towle, District Secretary.
 San Francisco, City and County Water Department, Eugene J. Kelleher,
 General Manager and Chief Engineer.
 San Luis Obispo County Engineering Department,
 G. C. Protopapas, County Engineer.
 San Mateo County Department of Public Works, S. H. Cantwell, Jr., Director.
 Santa Clara Valley Water District, J. T. O'Halloran, General Manager.
 Santa Cruz County Community Resources Agency, D. Michael Van De Veer, Director.
 Santa Cruz County Flood Control and Water Conservation District,
 D. A. Porath, District Engineer.

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

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

HYDROLOGIC CONDITIONS

The 1979 water year began with little or no precipitation and deficient streamflow in the north-coastal region of California. At the index station, Smith River near Crescent City (fig. 1), streamflow during the first quarter ranged from 65 percent of the 1941-70 median during October to 11 percent in November.

During the first half of January, several large storms brought abundant precipitation to most of the State, alleviating a growing concern about the possibility of another drought. However, by the end of March, the accumulated runoff for the first six months of the 1979 water year at the Smith River index station was only 62 percent of the median. Combined contents in the 10 major reservoirs in northern California was 107 percent of average, having dropped from 122 percent at the end of the 1978 water year.

During the second half of the 1979 water year, runoff at the Smith River index station ranged from 169 percent of the median during May to 87 percent during June. Contents in the 10 major reservoirs decreased during the last quarter of the water year to 101 percent of average in August, rising slightly in September to 103 percent of average, or 86 percent of the contents of the previous September.

The areal distribution of runoff in California for the 1979 water year is shown in figure 1. Runoff at 11 selected index stations in the area covered by this volume is given as a percentage of the median runoff for the 30-year period 1941-70. Runoff ranged from 49 percent, for Trinity River at Hoopa in the north coast area, to 142 percent for Arroyo Seco near Soledad in the central coast area and to 164 percent for San Lorenzo River at Hayward in the San Francisco Bay area. Average runoff for the 11 index stations was 87 percent of the 30-year median.

Ground-water levels declined an average of about 1.5 feet (0.5 m) in the north-coastal part of the State during the period spring 1978 to spring 1979. In the central-coastal part of the State water levels rose an average of less than one foot.

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 ± 0.5°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

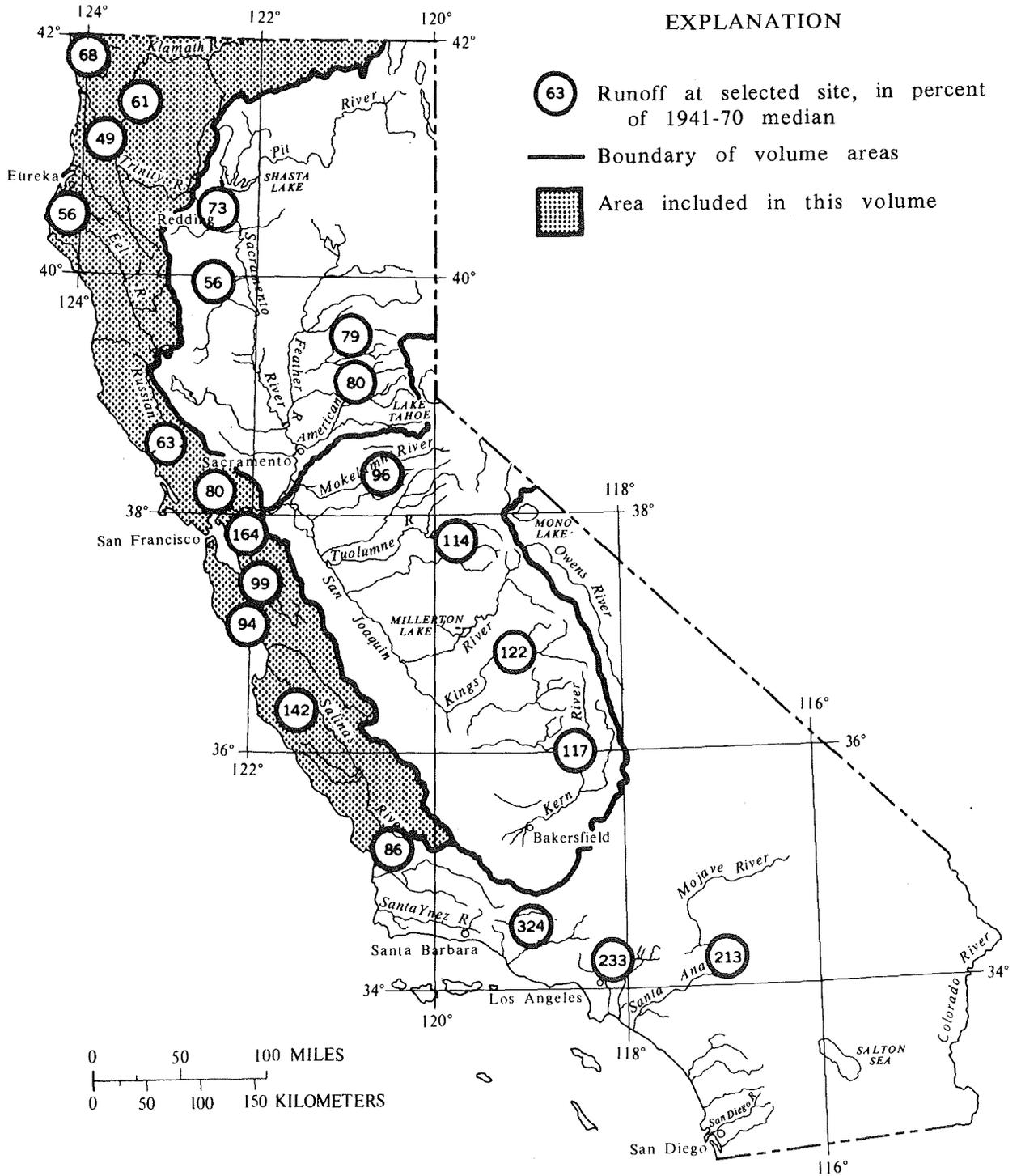


FIGURE 1.--Runoff for the current water year.

Bacteria (continued)

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 $35^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$ 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 organisms 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 (FT³/S, ft³/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 fluids 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 a later date.

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

$$\bar{d} = \sum_{i=1}^s \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

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

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

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

Gage 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.

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

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

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 to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae.

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

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/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 to 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.

Primary productivity (continued)

Milligrams of oxygen per area or volume per unit time [$\text{mg O}_2/(\text{m}^2 \cdot \text{time})$ for periphyton and macrophytes and $\text{mg O}_2/(\text{m}^3 \cdot \text{time})$ 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 of 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 chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the 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 at 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 submersed solid surface, such as a rock or tree, upon which an organism lives.

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

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

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

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

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the

Suspended, recoverable (continued)

sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

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

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

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

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

Kingdom.....Animal
Phylum.....Arthropoda
Class.....Insecta
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....Hexagenia
Species.....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 per-

cent) of the constituent present in the dissolved and suspended phases of 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 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 both the dissolved and suspended phases of the sample. 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." (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 an incident light source (see also p. 23).

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 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 stations 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 9 (Colorado River basin), Part 10 (The Great Basin), and Part 11 (Pacific slope basins in California). All records for a drainage basin encompassing more than one State 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.

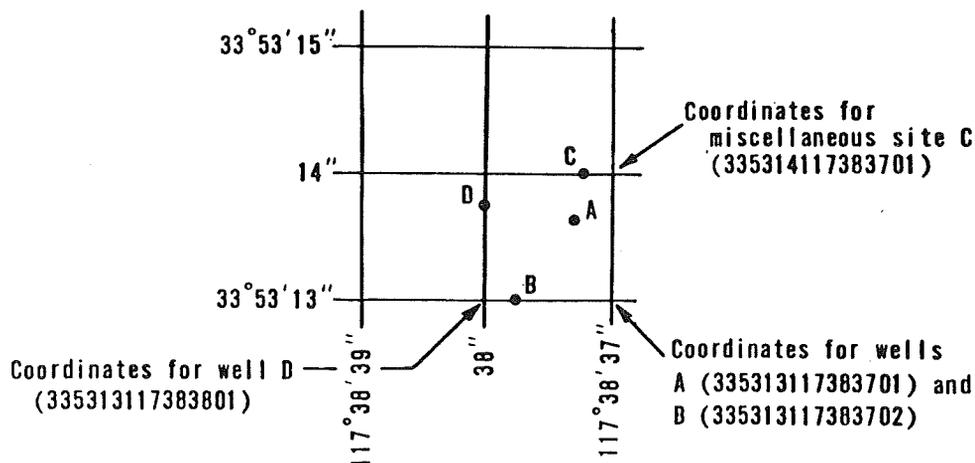


Figure 2.--System for numbering wells and miscellaneous sites (latitude and longitude).

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.

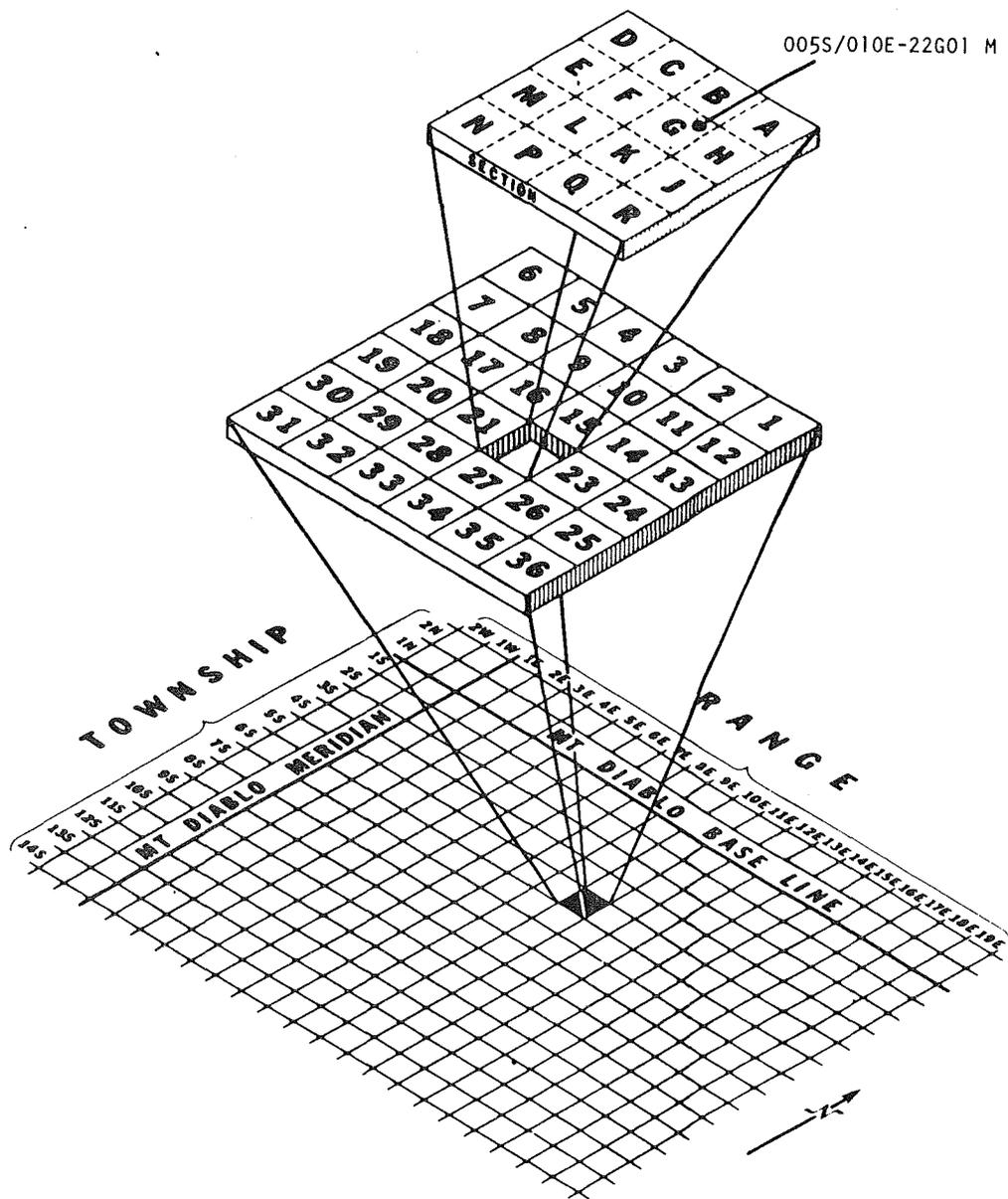


FIGURE 3.--California well-numbering system.

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:

09424190 Colorado River Aqueduct near San Jacinto, CA
 09429500 Colorado River above Imperial Dam, AZ-CA
 10254670 Alamo River at Drop No. 3, near Calpatria, 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
 11250000 Friant-Kern Canal at Friant, CA
 11303500 San Joaquin River near Vernalis, CA
 11325500 Mokelumne River at Woodbridge, CA

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 streams in areas where contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal inter-agency 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 flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives a continuous graph of the fluctuations or a tape punched at 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 888, 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 slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is 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 and 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 discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current 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 daily 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 8.

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 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 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 daily minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE 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.

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

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 on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and 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; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

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

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation 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 of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the District Office.

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 230-78, "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 the 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.

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

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for 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 quality and streamflow 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. Also included are particle-size distribution analyses of suspended sediment, surface bed material, and bedload material (sediment in transit within 0.25 ft (0.076 m) of the bed).

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 of the sediment moving within 0.25 ft (0.076 m) of the streambed. Sediment moving in this portion of the flow cannot be sampled with standard suspended-sediment samplers. It is assumed that samples obtained by this sampler represent the bedload discharge when used in coarse-material bedded streams (median diameter coarser than about 4 mm) and that these data can be used in conjunction with theoretical computations to define the bedload-transport relation for a station.

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.

PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four 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, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please specify 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.
- 3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A11. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-B1. Aquifer-test design, observation, and data analyses, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. Introduction to ground-water hydraulics, a programmed text for self-instruction, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. Field methods for measurement of fluvial sediment, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2, 1970. 59 pages.
- 3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

- 4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. Computation of rate and volume of stream depletion by wells, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. Methods for determination of inorganic substances in water and fluvial sediments, edited by M. W. Skougstad, M. J. Fishman, L. C. Friedman, D. E. Erdmann, and S. S. Duncan: USGS--TWRI Book 5, Chapter A1. 626 p.
- 5-A2. Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. Methods for analysis of organic substances in water, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
- 5-A5. Methods for determination of radioactive substances in water and fluvial sediments, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-C1. Laboratory theory and methods for sediment analyses, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. Computer model of two-dimensional solute transport and dispersion in ground water, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 8-A1. Methods of measuring water levels in deep wells, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-B2. Calibration and maintenance of vertical-axis type current meters, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

ARROYO GRANDE BASIN

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 (30 m) upstream from Phoenix Creek, 8.8 mi (14.2 km) northeast of Arroyo Grande.

DRAINAGE AREA.--13.5 mi² (35.0 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 550 ft (168 m), from topographic map.

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

AVERAGE DISCHARGE.--12 years, 2.77 ft³/s (0.078 m³/s), 2,010 acre-ft/yr (2.48 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft³/s (36.0 m³/s) Jan. 25, 1969, gage height, 6.83 ft (2.082 m) in gage well, 6.57 ft (2.003 m) from floodmarks, from rating curve extended above 350 ft³/s (9.91 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.12 ft³/s (0.003 m³/s) Sept. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft³/s (0.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 15	0200	32	0.91	5.80	1.768	Feb. 20	2300	36	1.02	5.88	1.792
Feb. 13	2100	23	.65	5.61	1.710	Mar. 27	0315	*43	1.22	6.00	1.829

Minimum daily discharge, 0.54 ft³/s (0.015 m³/s) Sept. 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.3	1.5	1.6	3.2	3.0	9.1	1.9	1.6	1.0	.84	.75
2	1.1	1.3	1.4	1.6	3.3	2.8	8.4	1.8	1.6	1.1	.89	.74
3	1.1	1.3	1.4	1.6	2.5	2.7	7.7	1.8	1.5	1.1	.90	.73
4	1.2	1.3	1.4	1.7	2.3	2.6	5.8	1.8	1.5	1.0	.92	.70
5	1.2	1.3	1.4	2.2	2.2	2.5	3.7	1.8	1.4	1.0	.90	.69
6	1.2	1.3	1.4	2.0	2.2	2.5	3.4	1.8	1.4	1.0	.88	.67
7	1.2	1.3	1.4	1.7	2.1	2.6	3.1	1.8	1.4	.95	.89	.66
8	1.2	1.3	1.4	1.9	2.1	2.7	2.9	1.8	1.3	.92	.88	.65
9	1.2	1.4	1.4	3.0	2.1	2.5	2.7	1.8	1.3	.91	.98	.62
10	1.2	1.4	1.4	1.9	2.1	2.4	2.5	1.8	1.2	.82	.89	.60
11	1.1	1.7	1.4	1.8	2.1	2.4	2.5	1.7	1.2	.74	.89	.60
12	1.1	1.5	1.4	1.8	2.0	2.4	2.4	1.7	1.2	.70	.91	.57
13	1.1	1.9	1.4	1.8	4.0	2.4	2.4	1.7	1.1	.70	.91	.56
14	1.1	1.5	1.4	2.7	6.0	2.4	2.3	1.6	1.1	.73	.89	.55
15	1.2	1.5	1.4	5.3	3.6	2.6	2.3	1.6	1.1	.74	.88	.54
16	1.2	1.5	1.5	2.6	3.9	2.9	2.2	1.7	1.1	.72	.86	.54
17	1.2	1.5	1.6	2.2	3.0	4.0	2.1	1.7	1.1	.69	.87	.55
18	1.2	1.5	2.1	2.5	2.8	3.5	2.0	1.7	1.1	.69	.87	.55
19	1.3	1.5	2.3	2.2	2.6	2.7	2.0	1.7	1.1	.69	.86	.55
20	1.2	1.5	1.7	2.2	8.4	3.0	2.0	1.7	1.1	.72	.88	.57
21	1.3	1.6	1.6	2.1	12	2.6	2.0	1.7	1.1	.76	.87	.59
22	1.2	2.1	1.6	2.0	7.1	2.5	1.9	1.7	1.1	.80	.83	.63
23	1.2	1.5	1.6	2.0	9.3	2.5	1.9	1.6	1.0	.80	.82	.64
24	1.2	1.4	1.6	2.0	5.2	2.3	1.9	1.6	1.0	.79	.80	.65
25	1.2	1.4	1.6	2.0	4.2	2.3	1.9	1.6	1.0	.83	.77	.66
26	1.3	1.4	1.6	1.9	3.8	2.4	2.0	1.6	1.0	.85	.75	.67
27	1.3	1.4	1.6	2.0	3.3	18	2.0	1.7	1.0	.86	.71	.69
28	1.3	1.4	1.6	2.0	3.0	17	1.9	1.7	.97	.85	.72	.72
29	1.3	1.4	1.6	1.9	---	15	1.9	1.6	.94	.82	.77	.80
30	1.3	1.4	1.6	2.4	---	12	1.8	1.6	.95	.85	.76	.87
31	1.3	---	1.6	4.3	---	10	---	1.6	---	.85	.75	---
TOTAL	37.3	43.8	47.9	68.9	110.4	141.2	90.7	52.9	35.46	25.98	26.34	19.31
MEAN	1.20	1.46	1.55	2.22	3.94	4.55	3.02	1.71	1.18	.84	.85	.64
MAX	1.3	2.1	2.3	5.3	12	18	9.1	1.9	1.6	1.1	.98	.87
MIN	1.1	1.3	1.4	1.6	2.0	2.3	1.8	1.6	.94	.69	.71	.54
AC-FT	74	87	95	137	219	280	180	105	70	52	52	38
CAL YR 1978	TOTAL	2516.17	MEAN 6.89	MAX 320	MIN .20	AC-FT 4990						
WTR YR 1979	TOTAL	700.19	MEAN 1.92	MAX 18	MIN .54	AC-FT 1390						

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CA

LOCATION.--Lat 35°13'48", long 120°28'22", in SE¼NE¼ sec.16, T.31 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060006, on right bank 0.7 mi (1.1 km) upstream from small right-bank tributary, 3.2 mi (5.1 km) upstream from mouth, and 9.2 mi (14.8 km) northeast of Arroyo Grande.

DRAINAGE AREA.--21.6 mi² (55.9 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 540 ft (165 m), from topographic map.

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

AVERAGE DISCHARGE.--12 years, 10.0 ft³/s (0.283 m³/s), 7,250 acre-ft/yr (8.94 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft³/s (80.1 m³/s) Jan. 25, 1969, gage height, 9.26 ft (2.822 m) in gage well, 10.8 ft (3.29 m) from floodmarks, from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft³/s (0.008 m³/s) Aug. 1, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s (1.4 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Feb. 22	2115	149	4.22	4.36	1.329
Mar. 28	2100	*175	4.96	4.46	1.359

Minimum daily discharge, 0.77 ft³/s (0.022 m³/s) Sept. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.9	3.7	4.4	11	13	22	4.7	3.7	2.2	1.6	1.4
2	3.1	3.1	3.7	4.4	9.8	12	18	4.6	3.4	2.4	1.6	1.1
3	3.1	3.1	3.7	4.4	9.6	11	16	4.5	3.4	2.4	1.8	1.1
4	3.1	3.1	3.7	4.4	8.2	10	14	4.5	3.4	2.4	1.4	1.1
5	3.1	3.1	3.7	5.3	7.2	10	13	4.5	3.2	2.2	1.6	1.1
6	2.9	3.3	3.7	5.6	6.6	9.7	12	4.4	3.2	2.2	1.6	.92
7	2.7	3.4	3.7	4.5	6.2	9.7	11	4.4	3.2	2.0	1.4	.92
8	2.7	3.4	3.7	4.7	5.7	9.3	11	4.4	2.9	2.0	1.4	.92
9	2.7	3.4	3.7	8.2	5.3	9.3	9.7	4.3	2.9	2.2	1.6	.92
10	2.7	3.4	3.7	6.8	5.2	8.9	9.3	4.3	2.7	2.0	1.6	.92
11	2.6	3.4	3.7	5.7	5.2	8.9	8.7	4.0	2.7	2.0	1.6	.77
12	2.4	3.4	3.7	5.3	5.0	8.5	8.3	3.4	2.7	2.0	1.6	.77
13	2.6	3.9	3.7	5.2	10	8.5	8.0	3.7	2.7	2.0	1.6	.92
14	2.4	4.0	3.7	5.6	36	8.1	7.7	3.4	2.7	2.0	1.6	1.1
15	2.4	3.7	3.7	11	16	8.9	7.4	3.4	2.7	2.0	1.6	1.1
16	2.6	3.6	3.7	13	12	9.7	7.0	3.7	2.9	2.0	1.6	1.1
17	2.7	3.4	3.8	9.2	9.1	14	6.9	3.7	2.9	2.0	1.6	1.1
18	2.7	3.4	5.9	8.5	7.3	12	6.4	4.0	2.9	1.8	1.6	1.0
19	2.7	3.4	6.5	7.8	7.3	12	6.2	4.0	2.7	1.8	1.6	1.0
20	2.7	3.4	5.6	7.1	15	11	5.7	4.3	2.9	1.8	1.4	1.0
21	2.7	4.1	5.2	6.7	76	11	5.3	4.3	2.7	1.8	1.4	1.0
22	2.7	6.4	5.2	6.1	56	10	4.9	4.0	2.7	2.0	1.4	1.1
23	2.7	5.5	4.8	5.7	62	10	4.9	3.7	2.7	2.0	1.4	1.2
24	2.7	4.6	4.8	5.6	33	9.7	4.9	3.7	2.7	1.8	1.4	1.2
25	2.7	4.5	4.8	5.2	22	9.7	4.7	3.7	2.7	1.8	1.4	1.2
26	2.7	4.1	4.8	5.2	18	9.7	5.3	3.7	2.4	1.8	1.2	1.2
27	2.7	4.0	4.8	4.8	14	38	5.3	4.0	2.2	2.0	1.2	1.2
28	2.7	4.0	4.4	4.8	13	106	4.7	4.0	2.2	1.8	1.2	1.3
29	2.7	4.0	4.4	4.5	---	113	4.7	3.7	2.2	1.6	1.4	1.5
30	2.7	3.7	4.4	4.5	---	49	4.7	3.7	2.0	1.6	1.4	1.6
31	2.7	---	4.4	7.1	---	29	---	3.7	---	1.6	1.4	---
TOTAL	84.3	112.7	133.0	191.3	491.7	599.6	257.7	124.4	84.3	61.2	46.2	32.76
MEAN	2.72	3.76	4.29	6.17	17.6	19.3	8.59	4.01	2.81	1.97	1.49	1.09
MAX	3.1	6.4	6.5	13	76	113	22	4.7	3.7	2.4	1.8	1.6
MIN	2.4	2.9	3.7	4.4	5.0	8.1	4.7	3.4	2.0	1.6	1.2	.77
AC-FT	167	224	264	379	975	1190	511	247	167	121	92	65
CAL YR 1978 TOTAL	7627.30		MEAN 20.9	MAX 600	MIN 2.2	AC-FT 15130						
WTR YR 1979 TOTAL	2219.16		MEAN 6.08	MAX 113	MIN .77	AC-FT 4400						

ARROYO GRANDE BASIN

11141400 TAR SPRING CREEK NEAR ARROYO GRANDE, CA

LOCATION.--Lat 35°07'56", long 120°32'30", in Santa Manuela Grant, San Luis Obispo County, Hydrologic Unit 18060006, on right bank 0.5 mi (0.8 km) upstream from mouth, and 2.1 mi (3.4 km) northeast of Arroyo Grande.

DRAINAGE AREA.--18.2 mi² (47.1 km²).

PERIOD OF RECORD.--August 1967 to September 1979 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (55 m), from topographic map. Prior to May 20, 1969, at site 0.3 mi (0.5 km) upstream at datum 24.00 ft (7.315 m) higher.

REMARKS.--Records fair. No regulation; some diversion above station for irrigation.

AVERAGE DISCHARGE.--12 years, 3.14 ft³/s (0.089 m³/s), 2,270 acre-ft/yr (2.80 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,340 ft³/s (37.9 m³/s) Jan, 25, 1969, gage height, 10.1 ft (3.08 m) from floodmarks, from rating curve extended above 68 ft³/s (1.93 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft³/s (0.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Feb. 20	2315	43	1.218	2.30	0.701
Mar. 27	0345	*137	3.880	3.80	1.158

Minimum daily discharge, 0.06 ft³/s (0.002 m³/s) Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	.41	.65	.80	3.4	2.7	10	2.4	.74	.32	.63	.50
2	.38	.50	.60	.80	3.6	2.3	8.6	1.4	.83	.41	.67	.41
3	.38	.41	.60	.83	2.4	2.2	7.0	1.9	.85	.41	.53	.23
4	.38	.38	.64	.80	2.2	2.2	6.4	1.7	1.2	.20	.48	.45
5	.37	.38	.74	1.0	2.0	2.1	6.1	2.0	.59	.41	.56	.30
6	.37	.36	.73	1.0	1.9	2.2	5.6	2.6	.72	.41	.57	.39
7	.37	.34	.73	.94	1.8	2.2	5.7	2.2	.51	.46	.47	.25
8	.37	.36	.66	1.0	1.8	2.4	5.8	2.5	.30	.34	.46	.30
9	.37	.38	.72	1.1	1.8	2.2	3.6	2.6	.25	.42	.59	.30
10	.37	.38	.77	.99	1.8	2.1	2.2	2.8	.69	.34	.92	.52
11	.37	.42	.79	1.0	1.8	2.2	1.9	2.6	.52	.30	.44	.33
12	.38	.35	.74	1.0	1.6	2.0	1.6	2.1	.77	.40	.15	.23
13	.38	.35	.64	1.0	2.3	2.1	1.4	3.0	.51	.48	.62	.21
14	.38	.26	.56	1.6	3.0	2.1	2.4	2.0	.42	.81	.43	.27
15	.38	.31	.60	3.3	1.9	2.3	2.3	2.1	.89	.20	.39	.30
16	.38	.28	.61	2.1	2.5	2.5	1.8	2.2	1.2	.53	.25	.36
17	.38	.25	.68	1.8	1.7	3.4	2.1	2.4	.54	.39	.08	.34
18	.38	.25	.93	1.9	1.6	3.3	2.0	1.9	.74	.32	.09	.30
19	.39	.31	1.0	1.7	1.5	3.6	2.0	2.6	1.4	.28	.13	.12
20	.39	.34	.82	1.7	5.5	2.8	2.4	1.8	.90	.34	.37	.50
21	.39	.36	.81	1.6	9.6	2.1	1.5	2.5	.80	.15	.43	.16
22	.39	.55	.85	1.6	5.9	2.0	1.2	2.7	.30	.09	.09	.49
23	.39	.43	.75	1.5	6.0	1.8	1.8	1.9	.31	.23	.06	.30
24	.39	.49	.77	1.5	3.4	1.8	1.6	1.7	.10	.11	.08	.31
25	.39	.54	.80	1.4	3.0	1.9	1.7	.85	.63	.16	.18	.34
26	.45	.59	.80	1.4	3.0	2.2	1.6	1.0	.48	.24	.31	.30
27	.52	.54	.80	1.4	2.7	39	2.2	.83	.35	.48	.37	.25
28	.49	.67	.80	1.5	2.6	43	1.7	1.0	.85	.49	.31	.15
29	.46	.60	.88	1.4	---	35	1.6	1.2	.22	.21	.19	.12
30	.39	.58	.80	1.7	---	18	1.8	1.1	.74	.29	.35	.08
31	.38	---	.80	5.8	---	13	---	.67	---	.69	.48	---
TOTAL	12.20	12.37	23.07	47.16	82.3	208.7	97.6	60.25	19.35	10.91	11.68	9.11
MEAN	.39	.41	.74	1.52	2.94	6.73	3.25	1.94	.65	.35	.38	.30
MAX	.52	.67	1.0	5.8	9.6	43	10	3.0	1.4	.81	.92	.52
MIN	.37	.25	.56	.80	1.5	1.8	1.2	.67	.10	.09	.06	.08
AC-FT	24	25	46	94	163	414	194	120	38	22	23	18
CAL YR 1978	TOTAL	3831.69	MEAN	10.5	MAX	540	MIN	.07	AC-FT	7600		
WTR YR 1979	TOTAL	594.70	MEAN	1.63	MAX	43	MIN	.06	AC-FT	1180		

ARROYO GRANDE BASIN

29

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 (1.1 km) upstream from U.S. Highway 101.

DRAINAGE AREA.--102 mi² (264 km²).

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

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 (29.800 m) National Geodetic Vertical Datum of 1929. Prior to July 10, 1947, at datum 0.50 ft (0.152 m) higher.

REMARKS.--Records good except those for period of no gage height record, Aug. 27 to Sept. 26, which are poor. Flow regulated by Lopez Dam 7.8 mi (12.6 km) upstream since 1968, usable capacity, 47,800 acre-ft (58.9 hm³). Many small and intermittent diversions by pumping from stream for irrigation of about 4,000 acres (16.2 km²) above station.

AVERAGE DISCHARGE.--29 years (water years 1940-68), 19.4 ft³/s (0.549 m³/s), 14,060 acre-ft/yr (17.3 hm³/yr); 11 years (water years 1969-79), 13.1 ft³/s (0.371 m³/s), 9,490 acre-ft/yr (11.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft³/s (153 m³/s) Dec. 6, 1966, gage height, 12.88 ft (3.926 m); no flow for several days in some years. Maximum discharge since construction of Lopez Dam in 1968, 2,990 ft³/s (84.7 m³/s) Feb. 24, 1969, gage height, 9.48 ft (2.890 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 321 ft³/s (9.09 m³/s) Mar. 28, gage height, 3.89 ft (1.186 m); minimum daily, 1.1 ft³/s (0.031 m³/s) Sept. 22, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	5.1	6.7	5.3	9.7	6.5	25	8.7	6.7	3.8	2.8	1.4
2	5.4	5.3	6.5	4.9	9.9	5.7	21	7.6	5.8	3.8	3.8	1.9
3	4.5	5.4	6.3	4.7	7.0	5.0	18	7.3	6.7	2.6	3.5	2.2
4	4.5	4.4	6.4	5.1	6.7	5.0	16	7.0	5.3	5.1	2.6	3.5
5	4.9	4.7	5.9	6.1	6.1	4.4	16	6.7	4.2	7.8	3.0	4.0
6	4.2	4.6	6.1	6.1	5.7	4.7	39	8.2	5.8	5.7	4.5	4.1
7	5.4	4.9	5.7	5.6	5.8	5.4	19	7.9	5.8	3.4	3.3	3.8
8	5.9	4.0	6.1	5.9	6.1	6.0	13	6.1	5.3	2.6	3.1	3.5
9	6.0	4.7	6.0	6.5	5.8	5.3	7.9	7.0	3.2	2.0	2.8	3.3
10	5.4	5.2	6.0	5.8	5.5	5.3	7.7	7.6	4.6	2.2	3.8	3.2
11	5.3	5.5	5.8	5.7	5.8	5.1	6.9	6.1	3.2	1.9	2.5	3.3
12	5.2	5.5	5.4	5.6	6.1	5.3	6.9	5.3	3.2	2.5	4.5	2.8
13	5.8	6.1	5.6	5.5	8.2	4.6	6.7	6.7	3.4	2.4	4.3	2.7
14	4.9	5.7	5.3	8.2	11	5.3	6.8	6.7	3.0	3.3	3.1	2.9
15	4.4	5.6	4.9	13	6.7	5.8	8.2	6.7	4.0	3.9	3.5	3.0
16	5.2	5.6	4.4	8.4	8.2	6.4	8.3	6.4	5.9	3.6	3.0	2.5
17	4.5	5.4	5.2	7.5	7.3	8.7	8.9	7.0	11	2.1	3.2	2.3
18	4.4	5.5	6.5	8.3	6.0	5.8	8.3	6.4	3.4	3.0	2.6	2.7
19	4.8	5.6	7.1	7.1	7.0	6.3	7.8	5.8	4.0	1.4	2.2	2.1
20	5.5	5.8	6.1	6.8	15	5.9	8.4	5.5	2.6	1.9	3.7	1.8
21	4.8	5.9	5.9	6.7	29	5.4	7.8	6.4	2.0	1.9	2.0	1.3
22	4.3	9.1	5.8	6.5	15	5.5	8.1	6.1	1.2	4.1	3.0	1.1
23	4.6	7.8	5.8	6.4	21	5.1	8.9	5.8	2.3	4.6	4.1	1.3
24	4.8	6.2	5.8	6.2	10	5.1	7.7	6.1	2.9	1.6	3.0	1.2
25	4.9	6.3	5.8	6.4	8.8	5.1	6.9	5.6	3.6	2.1	1.5	1.1
26	4.4	6.3	5.7	5.9	8.3	5.6	8.3	4.3	2.3	3.3	2.8	1.4
27	4.8	6.3	5.8	6.2	6.7	9.2	9.3	5.8	1.9	3.6	2.1	2.0
28	3.8	6.5	5.8	6.3	6.7	141	8.9	6.4	3.2	4.1	1.7	3.0
29	4.4	6.2	5.7	6.1	---	127	9.0	6.1	2.3	1.9	1.3	4.4
30	4.6	6.3	5.5	7.0	---	52	8.9	5.8	1.6	3.4	1.4	4.9
31	4.7	---	5.5	17	---	33	---	6.4	---	2.2	1.5	---
TOTAL	150.6	171.5	181.1	212.8	255.1	589.3	343.6	201.5	120.4	97.8	90.2	78.7
MEAN	4.86	5.72	5.84	6.86	9.11	19.0	11.5	6.50	4.01	3.15	2.91	2.62
MAX	6.0	9.1	7.1	17	29	141	39	8.7	11	7.8	4.5	4.9
MIN	3.8	4.0	4.4	4.7	5.5	4.4	6.7	4.3	1.2	1.4	1.3	1.1
AC-FT	299	340	359	422	506	1170	682	400	239	194	179	156
CAL YR 1978 TOTAL	11744.4			32.2	574	2.1	AC-FT	23300				
WTR YR 1979 TOTAL	2492.6			6.83	141	1.1	AC-FT	4940				

ARROYO DE LA CRUZ BASIN

11142500 ARROYO DE LA CRUZ NEAR SAN SIMEON, CA

LOCATION.--Lat 35°43'02", long 121°17'02", in Piedra Blanca Grant, San Luis Obispo County, Hydrologic Unit 18060006, on right bank 1.7 mi (2.7 km) upstream from mouth, and 7 mi (11 km) northwest of San Simeon.

DRAINAGE AREA.--41.2 mi² (106.7 km²).

PERIOD OF RECORD.--October 1950 to September 1979 (discontinued).

REVISED RECORDS.--WSP 1245: 1951. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 22 ft (6.7 m), from topographic map.

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

AVERAGE DISCHARGE.--29 years, 54.4 ft³/s (1.541 m³/s), 39,410 acre-ft (48.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,200 ft³/s (997 m³/s) Dec. 6, 1966, gage height, 15.27 ft (4.654 m), from rating curve extended above 7,600 ft³/s (215 m³/s) on basis of slope-area measurements at gage heights 12.40 ft (3.780 m) and 15.27 ft (4.654 m); no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s (71 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 15	0115	*7600	215	9.42	2.871
Feb. 20	1930	4130	117	7.68	2.341

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	7.4	1.1	545	212	168	17	8.1	1.4		
2		0	6.0	.98	392	167	138	17	7.2	1.2		
3		0	4.3	.93	274	148	118	16	6.6	1.1		
4		0	3.5	.93	194	136	103	15	6.0	1.0		
5		0	3.0	.92	145	125	92	14	5.6	.90		
6		0	2.2	.84	108	116	82	14	5.2	.89		
7		0	1.6	.80	79	110	74	13	4.9	.86		
8		0	1.2	1.63	55	104	66	13	4.5	.84		
9		0	1.1	212	38	99	58	12	4.0	.80		
10		0	1.1	56	35	94	55	11	3.5	.78		
11		0	1.0	33	33	90	54	11	3.1	.76		
12		0	.93	47	32	87	51	10	2.9	.71		
13		0	.92	25	502	83	48	10	2.7	.63		
14		0	.80	398	797	79	45	10	2.6	.26		
15		0	.80	1950	334	81	42	10	2.8	.11		
16		0	.80	577	402	107	39	11	2.8	.04		
17		0	.85	125	265	210	37	11	2.7	.01		
18		0	.99	180	213	114	35	10	2.5	0		
19		0	16	125	189	99	32	11	2.4	0		
20		0	17	91	758	93	30	11	2.4	0		
21		793	11	66	851	86	28	11	2.4	0		
22		261	7.2	50	536	81	27	12	2.3	0		
23		112	4.8	44	482	77	27	12	2.2	0		
24		58	3.4	41	328	73	25	12	2.2	0		
25		36	2.7	38	264	69	24	12	2.2	0		
26		23	2.1	34	231	207	25	11	2.1	0		
27		17	1.7	30	199	1040	32	10	1.9	0		
28		13	1.6	27	180	966	23	9.5	1.6	0		
29		10	1.5	26	---	609	20	9.3	1.5	0		
30		8.3	1.3	45	---	321	18	9.3	1.4	0		
31		---	1.1	783	---	222	---	8.8	---	0		---
TOTAL	0	1331.3	109.89	5172.50	8461	6105	1616	363.9	102.3	12.29	0	0
MEAN	0	44.4	3.54	167	302	197	53.9	11.7	3.41	.40	0	0
MAX	0	793	17	1950	851	1040	168	17	8.1	1.4	0	0
MIN	0	0	.80	.80	32	69	18	8.8	1.4	0	0	0
AC-FT	0	2640	218	10260	16780	12110	3210	722	203	24	0	0
CAL YR 1978	TOTAL	36152.44	MEAN 99.0	MAX 3180	MIN 0	AC-FT 71710						
WTR YR 1979	TOTAL	23274.18	MEAN 63.8	MAX 1950	MIN 0	AC-FT 46160						

BIG SUR RIVER BASIN

11143000 BIG SUR RIVER NEAR BIG SUR, CA

LOCATION.--Lat 36°14'45", long 121°46'20", in SW¼SW¼ sec.29, T.19 S., R.2 E., Monterey County, Hydrologic Unit 18060006, on right bank at downstream side of bridge, 0.4 mi (0.6 km) upstream from Post Creek, and 2.6 mi (4.2 km) southeast of town of Big Sur.

DRAINAGE AREA.--46.5 mi² (120.4 km²).

WATER-DISCHARGE RECORDS

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 (73 m), revised, from topographic map. Prior to Oct. 1, 1951, nonrecording gage at site 0.9 mi (1.4 km) downstream at different datum.

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

AVERAGE DISCHARGE.--29 years, 95.3 ft³/s (2.699 m³/s), 69,040 acre-ft/yr (85.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft³/s (303 m³/s) Jan. 5, 1978, gage height, 14.30 ft (4.359 m); minimum daily, 2.6 ft³/s (0.074 m³/s) Aug. 23, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (20 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Nov. 21	0215	*1510	42.8	6.78	2.067	Feb. 14	0330	1480	41.9	6.74	2.054
Jan. 8	1730	1480	41.9	6.75	2.051	Feb. 20	1900	1310	37.1	6.48	1.975
Jan. 14	2215	941	26.6	6.04	1.841	Mar. 28	1845	1180	33.4	6.31	1.923

Minimum daily discharge, 15 ft³/s (0.42 m³/s) Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	20	38	30	114	337	373	97	55	38	40	24
2	23	20	35	29	115	293	334	95	54	40	40	22
3	23	20	34	28	105	268	303	92	53	39	40	22
4	23	20	33	28	102	247	276	90	52	35	41	22
5	23	20	31	33	101	233	260	91	51	33	39	22
6	23	20	30	30	101	219	247	89	51	33	38	21
7	23	19	29	30	99	208	232	91	51	32	39	22
8	23	19	29	306	95	199	218	86	49	31	40	21
9	23	19	28	181	91	191	206	82	48	30	39	19
10	23	20	27	110	89	182	197	80	46	29	38	18
11	22	21	26	120	87	173	189	77	46	29	39	18
12	22	22	26	120	83	166	180	76	45	28	38	18
13	22	27	26	103	457	160	173	74	46	27	39	18
14	22	22	26	276	956	153	166	73	46	28	38	18
15	22	21	26	449	438	180	158	72	47	28	36	17
16	22	21	27	267	398	186	157	71	46	27	36	17
17	23	21	50	210	292	177	152	70	46	27	37	17
18	23	20	67	191	248	160	142	68	47	28	37	17
19	23	20	60	157	219	155	136	68	47	28	37	17
20	23	86	48	139	423	149	132	67	47	29	38	18
21	23	498	44	126	669	143	127	65	47	30	36	17
22	22	136	42	116	730	145	124	64	46	39	35	17
23	22	76	40	108	707	134	126	62	45	43	34	16
24	21	60	39	101	572	123	117	61	46	41	32	15
25	21	51	38	99	479	118	113	59	45	40	29	17
26	21	46	37	90	451	146	134	58	42	40	28	17
27	21	42	36	86	372	480	120	58	42	40	26	17
28	21	39	35	85	343	716	109	60	40	41	25	17
29	20	38	34	79	---	744	103	58	39	40	26	17
30	20	36	32	125	---	540	99	57	39	40	27	18
31	21	---	31	125	---	438	---	56	---	40	25	---
TOTAL	689	1500	1104	3977	8936	7763	5403	2267	1404	1053	1092	556
MEAN	22.2	50.0	35.6	128	319	250	180	73.1	46.8	34.0	35.2	18.5
MAX	25	498	67	449	956	744	373	97	55	43	41	24
MIN	20	19	26	28	83	118	99	56	39	27	25	15
AC-FT	1370	2980	2190	7890	17720	15400	10720	4500	2780	2090	2170	1100
CAL YR 1978	TOTAL	87885	MEAN 241	MAX 3040	MIN 19	AC-FT 174300						
WTR YR 1979	TOTAL	35744	MEAN 97.9	MAX 956	MIN 15	AC-FT 70900						

BIG SUR RIVER BASIN

11143000 BIG SUR RIVER NEAR BIG SUR, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to February 1979 (discontinued).

CHEMICAL ANALYSES: Water year 1977.

WATER TEMPERATURES: Water years 1966 to February 1979 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1965 to February 1979 (discontinued).

INSTRUMENTATION.--Temperature recorder since October 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 21.5°C July 14, 15, 27, 1978; minimum recorded, 5.0°C on several days in 1967, 1974-77.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 17.0°C Oct. 1, 2; minimum for period recorded, 5.5°C Dec. 31, Jan. 1.

TEMPERATURE, WATER (DEG. C), PERIOD OCTOBER 1978 TO FEBRUARY 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.0	12.0	11.0	11.5	11.5	6.5	5.5	8.5	7.5		
2	17.0	15.5	11.0	10.5	11.5	10.5	7.0	6.5	8.5	7.5		
3	16.5	16.0	11.5	10.5	10.5	9.0	7.5	6.5	8.5	7.0		
4	16.5	15.5	11.5	10.5	9.5	9.0	8.0	7.5	8.5	7.0		
5	15.0	13.0	12.0	11.5	9.5	9.0	9.0	9.0	9.5	8.0		
6	14.5	13.0	12.0	11.0	9.0	7.5	9.5	8.0	10.0	9.0		
7	14.5	13.5	12.0	11.0	7.5	6.5	10.0	9.0	10.0	8.5		
8	14.5	13.5	12.0	11.0	7.0	6.0	11.0	10.0	9.5	8.5		
9	14.5	13.5	12.0	11.0	7.5	6.5	11.0	10.5	9.5	8.5		
10	14.5	13.5	12.0	11.0	8.5	7.5	10.5	9.5	10.5	9.5		
11	14.5	13.0	11.0	10.5	9.0	8.0	12.0	11.0	10.5	9.5		
12	14.5	14.0	10.5	9.0	9.0	8.5	12.0	11.0	11.5	10.5		
13	15.0	14.0	10.0	9.5	9.5	8.5	11.0	9.5	12.0	11.0		
14	15.0	14.0	10.0	9.0	9.5	8.5	10.0	9.5	---	---		
15	15.0	14.0	9.0	8.0	9.5	8.5	11.0	10.0	---	---		
16	15.0	14.0	10.0	8.5	9.5	8.5	11.0	9.5	---	---		
17	14.5	13.5	10.0	9.0	10.0	9.5	10.0	9.0	---	---		
18	14.0	13.0	10.0	9.0	10.5	9.5	10.0	9.0	---	---		
19	14.0	13.5	10.0	9.5	9.5	8.0	9.5	8.5	---	---		
20	14.0	12.5	11.5	10.0	8.0	7.0	10.0	9.0	---	---		
21	13.5	12.0	11.5	11.5	7.0	6.0	10.0	9.5	---	---		
22	---	---	11.0	10.5	8.0	6.5	10.0	9.0	---	---		
23	---	---	11.0	10.0	8.0	7.5	10.0	9.0	---	---		
24	13.5	12.0	10.0	10.0	8.0	7.5	10.0	9.0	---	---		
25	13.5	12.5	10.0	9.0	8.0	7.5	10.0	9.5	---	---		
26	13.0	12.5	10.0	9.0	8.5	7.5	9.5	8.5	---	---		
27	13.0	12.0	10.0	9.0	9.0	8.0	8.5	8.0	---	---		
28	13.0	11.5	10.0	9.0	9.5	9.0	8.5	8.0	---	---		
29	13.0	12.0	11.5	10.0	9.5	8.5	8.0	7.0	---	---		
30	12.5	11.5	11.5	11.0	8.5	6.5	8.5	7.5	---	---		
31	12.0	11.0	---	---	6.5	5.5	8.0	7.5	---	---		
MONTH	17.0	11.0	12.0	8.0	11.5	5.5	12.0	5.5	---	---		

11143200 CARMEL RIVER AT ROBLES DEL RIO, CA

LOCATION.--Lat 36°28'28", long 121°43'40", in Los Laureles Grant, Monterey County, Hydrologic Unit 18060012, on downstream side of county road bridge at Robles del Rio, 0.2 mi (0.3 km) downstream from Hitchcock Canyon, and 11 mi (18 km) southeast of town of Carmel.

DRAINAGE AREA.--193 mi² (500 km²).

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

REVISED RECORDS.--WSP 1715: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft (82 m), from topographic map.

REMARKS.--Records good. Flow regulated by Los Padres Reservoir 11 mi (18 km) upstream, capacity, 3,000 acre-ft (3.70 hm³) and San Clemente Reservoir 4 mi (6 km) upstream, capacity, 1,600 acre-ft (1.97 hm³). Diversion from San Clemente Reservoir for municipal supply amounted to 5,860 acre-ft (7.23 hm³) for the current year.

AVERAGE DISCHARGE (unadjusted).--22 years, 77.0 ft³/s (2.181 m³/s), 55,790 acre-ft/yr (68.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft³/s (201 m³/s) Apr. 2, 1958, gage height, 10.50 ft (3.200 m); no flow at times in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a stage of 11.7 ft (3.57 m) from floodmarks, discharge, 6,930 ft³/s (196 m³/s) by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,140 ft³/s (32.3 m³/s) Feb. 14, gage height, 6.14 ft (1.871 m); minimum daily, 0.04 ft³/s (0.001 m³/s) Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.3	19	19	77	247	385	81	37	11	2.4	.71
2	2.1	1.3	19	19	78	210	337	82	35	11	2.1	1.0
3	2.2	1.3	16	18	70	191	300	77	33	11	2.2	.85
4	2.0	1.3	15	17	66	176	271	75	32	11	2.1	.57
5	1.9	1.3	16	19	65	162	249	73	31	12	1.9	.63
6	1.9	1.3	14	17	64	151	231	73	29	11	1.7	.67
7	2.1	1.2	13	17	64	140	212	77	33	10	1.6	.44
8	1.9	1.1	13	22	63	133	195	79	24	9.2	1.9	.43
9	2.9	1.2	14	102	62	125	186	74	5.3	9.4	1.7	.35
10	3.4	1.3	15	80	61	116	175	71	6.5	7.1	1.5	.49
11	1.8	1.4	15	66	60	111	171	69	6.8	6.5	1.4	.28
12	1.4	1.4	15	76	58	102	161	67	4.4	6.9	1.5	.23
13	1.0	1.5	15	66	197	96	152	64	3.8	5.1	1.3	.14
14	1.0	1.4	14	116	866	92	144	62	3.2	4.6	1.2	.20
15	1.2	1.4	14	463	433	104	137	60	3.2	4.4	1.2	.11
16	1.3	1.4	14	237	326	117	132	60	3.3	3.3	1.2	.11
17	1.1	1.4	16	163	250	108	135	58	3.7	2.5	1.2	.12
18	1.0	1.2	33	144	208	104	125	55	3.5	2.2	.94	.12
19	1.6	1.2	44	112	183	112	118	54	2.8	2.3	.92	.09
20	7.2	1.6	34	96	193	98	113	54	2.8	1.9	.95	.07
21	22	35	28	87	369	91	107	52	3.1	2.0	.98	.05
22	23	90	26	79	385	86	95	49	2.7	2.1	.70	.04
23	18	62	24	72	397	84	101	46	2.9	3.4	.86	.07
24	9.8	38	23	64	329	82	101	45	3.2	3.4	1.3	.14
25	3.8	29	22	64	282	96	94	43	3.6	3.2	1.2	.14
26	2.6	25	22	57	285	200	96	42	3.1	2.7	1.2	.16
27	2.0	21	22	53	241	450	99	41	3.1	3.0	1.1	.19
28	1.6	19	20	53	213	690	89	41	3.2	2.7	1.1	.25
29	1.5	18	20	49	---	736	86	40	8.6	2.6	1.1	.13
30	1.4	17	20	63	---	559	82	38	9.9	2.3	.83	.26
31	1.3	---	19	96	---	452	---	37	---	2.9	.69	---
TOTAL	128.3	380.5	614	2606	5945	6221	4879	1839	346.7	172.7	41.97	9.04
MEAN	4.14	12.7	19.8	84.1	212	201	163	59.3	11.6	5.57	1.35	.30
MAX	23	90	44	463	866	736	385	82	37	12	2.4	1.0
MIN	1.0	1.1	13	17	58	82	82	37	2.7	1.9	.69	.04
AC-FT	254	755	1220	5170	11790	12340	9680	3650	688	343	83	18

CAL YR 1978 TOTAL 74989.70 MEAN 205 MAX 2780 MIN 1.0 AC-FT 148700
WTR YR 1979 TOTAL 23183.21 MEAN 63.5 MAX 866 MIN .04 AC-FT 45980

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 (0.5 km) downstream from Potrero Canyon, and 3 mi (5 km) east of Carmel.

DRAINAGE AREA.--246 mi² (637 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 45 ft (14 m), from topographic map.

REMARKS.--Records good. Flow regulated by Los Padres Reservoir, capacity, 3,000 acre-ft (3.70 hm³) and San Clemente Reservoir, capacity, 1,600 acre-ft (1.97 hm³). Diversion from San Clemente Reservoir for municipal supply amounted to 5,860 acre-ft (7.23 hm³) for the current year.

AVERAGE DISCHARGE (unadjusted).--17 years, 97.4 ft³/s (2.758 m³/s), 70,570 acre-ft/yr (87.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,620 ft³/s (244 m³/s) Jan. 26, 1969, gage height, 17.30 ft (5.273 m) in gage well, 17.4 ft (5.30 m) from Floodmarks; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,340 ft³/s (37.9 m³/s) Feb. 14, gage height, 8.25 ft (2.515 m); no flow Sept. 11-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	.44	7.8	11	95	449	536	101	33	.49	.19	.05
2	.36	.33	10	12	97	405	482	98	31	.45	.24	.06
3	.38	.29	8.3	13	88	380	441	93	29	.39	.28	.08
4	.40	.29	8.1	12	81	359	408	88	27	.46	.21	.06
5	.37	.32	8.6	14	78	344	380	86	25	.49	.17	.05
6	.37	.35	8.1	13	76	325	361	84	24	.49	.25	.04
7	.42	.35	6.9	13	75	311	339	86	23	.56	.23	.03
8	.44	.38	5.6	23	72	300	321	88	27	.71	.22	.01
9	.47	.40	5.1	125	69	289	311	84	11	.76	.20	.01
10	.50	.40	7.1	88	68	277	300	80	4.6	.70	.17	.02
11	.53	.40	7.2	75	66	265	288	77	2.7	.55	.17	0
12	.50	.40	6.8	78	63	258	279	74	2.0	.49	.17	0
13	.59	.40	6.4	72	85	248	262	70	1.1	.54	.23	0
14	.61	.43	6.7	99	1040	243	249	68	.74	.43	.26	0
15	.61	.45	7.2	428	634	245	236	67	.62	.39	.18	0
16	.61	.40	8.5	279	520	280	227	67	.62	.49	.19	0
17	.61	.40	11	203	434	284	223	64	.50	.49	.21	0
18	1.1	.43	28	185	382	259	212	61	.39	.49	.14	0
19	1.2	.50	53	150	356	295	201	59	.38	.49	.10	0
20	1.1	.64	47	130	345	269	193	59	.35	.59	.07	0
21	.83	3.5	39	117	551	254	182	58	.39	.68	.04	0
22	.72	1.4	35	105	579	249	168	54	.39	.67	.04	0
23	.76	28	30	95	609	238	161	49	.39	.56	.04	0
24	.82	16	26	88	529	232	158	47	.43	.47	.03	0
25	.74	11	24	85	479	226	146	44	.48	.46	.02	0
26	.61	7.0	21	80	483	220	138	42	.39	.46	.02	0
27	.56	5.3	20	73	437	634	138	40	.36	.41	.01	0
28	.42	4.2	17	69	404	886	123	39	.31	.37	.01	0
29	.38	4.2	15	67	---	883	113	39	.49	.33	.03	0
30	.46	4.1	13	71	---	706	106	37	.49	.28	.03	0
31	.52	---	11	112	---	604	---	36	---	.15	.05	---
TOTAL	18.34	92.70	508.4	2985	8795	11217	7682	2039	248.12	15.29	4.20	.41
MEAN	.59	3.09	16.4	96.3	314	362	256	65.8	8.27	.49	.14	.014
MAX	1.2	28	53	428	1040	886	536	101	33	.76	.28	.08
MIN	.35	.29	5.1	11	63	220	106	36	.31	.15	.01	0
AC-FT	36	184	1010	5920	17440	22250	15240	4040	492	30	8.3	.8
CAL YR 1978	TOTAL	81136.04	MEAN	222	MAX	3720	MIN	.29	AC-FT	160900		
WTR YR 1979	TOTAL	33605.46	MEAN	92.1	MAX	1040	MIN	0	AC-FT	66660		

SALINAS RIVER BASIN

11143500 SALINAS RIVER NEAR POZO, CA

LOCATION.--Lat 35°17'55", long 120°24'10", in NE¼ 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 (1.6 km) downstream from Pozo Creek, 1.6 mi (2.6 km) west of Pozo, and 7.4 mi (11.9 km) upstream from Salinas Dam.

DRAINAGE AREA.--70.3 mi² (182.1 km²).

PERIOD OF RECORD.--July 1942 to current year.

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 (410.803 m) National Geodetic Vertical Datum of 1929. Prior to May 13, 1969, water-stage recorder at site 0.4 mi (0.6 km) downstream at same datum.

REMARKS.--Records fair except those for periods of no gage-height record, Feb. 25 to Mar. 26, Apr. 29 to June 26, which are poor. No regulation or diversion above station. Water is stored in Santa Margarita Lake below station.

AVERAGE DISCHARGE.--37 years, 17.6 ft³/s (0.498 m³/s), 12,750 acre-ft/yr (15.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft³/s (527 m³/s) Jan. 25, 1969, gage height, 13.90 ft (4.237 m) in gage well, 15.5 ft (4.72 m) site then in use, from floodmarks, from rating curve extended above 7,100 ft³/s (201 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.5 m³/s) and maximum (*) from rating curve extended above 620 ft³/s (17.6 m³/s) on basis of slope-area measurement of peak flow:

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Feb. 21	1545	716	20.3	13.03	3.972
Mar. 28	0315	*1720	48.7	14.56	4.438

Minimum daily discharge, 0.16 ft³/s (0.005 m³/s) Sept. 22, 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	1.5	1.5	2.1	2.9	9.8	39	4.2	3.2	1.0	.43	.71
2	.73	1.5	1.6	1.9	3.9	9.1	31	4.1	3.1	1.4	.37	.58
3	.77	1.5	1.3	1.8	2.7	8.2	26	3.6	2.9	1.6	.51	.48
4	.85	1.5	1.3	1.9	2.6	7.5	22	3.4	3.1	1.5	.73	.72
5	.90	1.5	1.3	2.7	2.7	6.7	20	3.3	2.7	1.4	.60	.54
6	.86	1.5	1.4	2.3	2.5	6.3	19	3.2	2.1	1.5	.40	.44
7	.89	1.5	1.7	2.1	2.3	6.2	17	3.8	2.8	1.5	.36	.46
8	.85	1.5	1.6	2.4	2.4	5.9	16	3.4	2.7	1.6	.41	.60
9	.96	1.5	1.7	2.7	2.4	5.4	16	2.9	2.5	1.2	.54	.56
10	.95	1.4	1.9	2.2	2.2	5.0	17	3.4	1.6	1.1	.58	.55
11	.96	1.7	2.1	2.1	2.0	4.8	17	3.6	2.1	1.3	.59	.53
12	1.0	1.6	2.1	2.0	1.9	4.6	16	2.8	1.5	1.3	.54	.32
13	.95	1.7	2.1	1.9	1.7	4.4	16	2.5	1.6	1.3	.58	.30
14	1.0	1.5	2.2	2.9	5.3	4.2	15	3.2	1.6	1.2	.63	.33
15	.96	1.5	2.1	9.8	2.2	4.0	15	3.2	1.4	1.1	.64	.45
16	1.0	1.5	2.2	2.8	1.3	4.5	14	3.1	2.0	.90	.57	.40
17	1.1	1.4	2.5	1.8	1.4	4.7	14	3.0	2.7	.90	.76	.36
18	1.2	1.3	3.5	1.6	1.3	4.8	12	3.3	1.9	.72	.76	.34
19	1.2	1.3	3.1	1.5	1.2	4.7	10	2.9	1.6	.77	.56	.38
20	1.2	1.3	2.4	1.5	2.9	4.6	9.0	2.7	1.8	.91	.50	.30
21	1.3	2.1	2.3	1.5	31.2	4.7	8.0	2.8	1.2	1.1	.56	.24
22	1.3	2.7	2.4	1.4	11.3	4.9	7.5	3.0	1.1	1.2	.62	.16
23	1.2	2.3	2.4	1.3	12.9	5.0	7.0	2.9	1.0	1.2	.77	.18
24	1.2	1.9	2.2	1.3	3.3	4.9	6.5	2.8	1.1	1.0	.73	.18
25	1.2	1.6	2.1	1.2	1.5	5.0	6.2	2.9	1.3	.67	.76	.16
26	1.4	1.6	2.0	1.1	1.3	5.0	5.7	2.5	1.6	.58	.68	.16
27	1.5	1.5	2.1	1.2	1.1	3.94	5.0	2.1	1.5	.74	.76	.22
28	1.4	1.5	2.1	1.2	9.8	6.79	4.6	2.7	1.4	1.0	.71	.30
29	1.4	1.4	2.1	1.3	---	2.63	4.3	3.0	1.4	.92	.49	.44
30	1.5	1.3	2.2	1.8	---	8.6	4.3	2.9	1.2	.83	.79	.66
31	1.5	---	2.1	6.8	---	5.4	---	2.8	---	.69	.70	---
TOTAL	34.01	47.6	63.6	70.1	839.3	1620.9	420.1	96.0	57.7	34.13	18.63	12.05
MEAN	1.10	1.59	2.05	2.26	30.0	52.3	14.0	3.10	1.92	1.10	.60	.40
MAX	1.5	2.7	3.5	9.8	31.2	6.79	3.9	4.2	3.2	1.6	.79	.72
MIN	.73	1.3	1.3	1.1	1.9	4.0	4.3	2.1	1.0	.58	.36	.16
AC-FT	67	94	126	139	1660	3220	833	190	114	68	37	24
CAL YR 1978 TOTAL	28446.15			MEAN 77.9	MAX 3620	MIN .35	AC-FT 56420					
WTR YR 1979 TOTAL	3314.12			MEAN 9.08	MAX 679	MIN .16	AC-FT 6570					

SALINAS RIVER BASIN

11144000 TORO CREEK NEAR POZO, CA

LOCATION.--Lat 35°19'26", long 120°25'13", in SE¼ sec.12, T.30 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060005, on left bank 300 ft (91 m) upstream from mouth, and 3 mi (5 km) northwest of Pozo.

DRAINAGE AREA.--9.56 mi² (24.76 km²).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,312.99 ft (400.199 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1961, at site 250 ft (76 m) downstream at datum 11.83 ft (3.606 m) lower.

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

AVERAGE DISCHARGE.--16 years (water years, 1962-69, 1972-79), 0.80 ft³/s (0.023 m³/s), 580 acre-ft/yr (715,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft³/s (68.0 m³/s) Feb. 24, 1969, gage height, 8.3 ft (2.53 m) from floodmarks, from rating curve extended above 30 ft³/s (0.850 m³/s) on basis of slope-area measurements at gage heights 5.11 ft (1.558 m) and 7.3 ft (2.23 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15 ft³/s (0.42 m³/s) Mar. 27 (0230 hours), gage height, 3.96 ft (1.207 m), no other peak above base of 15 ft³/s (0.4 m³/s); minimum daily, 0.02 ft³/s (0.001 m³/s) Aug. 13-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	.31	.22	.60	1.5	1.7	1.6	.94	.82	.14	.13	.32
2	.47	.27	.32	.59	1.9	1.2	1.4	1.0	.50	.08	.10	.39
3	.39	.18	.60	.58	1.1	.55	1.4	1.0	.19	.08	.10	.31
4	.32	.21	.76	.56	1.4	.84	.87	1.0	.16	.06	.09	.31
5	.30	.24	.64	.82	1.7	1.2	.62	.87	.52	.06	.06	.34
6	.36	.29	.56	.92	1.1	1.4	.73	.87	1.3	.06	.04	.64
7	.39	.27	.47	.76	1.6	1.4	3.5	1.0	.85	.06	.04	.81
8	.36	.36	1.3	.70	1.1	1.3	.73	1.2	.51	.08	.05	.73
9	.27	.41	.91	1.4	.51	1.2	.73	1.1	.18	.08	.05	.73
10	.31	.39	.82	1.1	.94	1.4	1.7	1.0	.19	.14	.04	.73
11	.20	.32	.75	.94	1.1	1.4	1.7	1.2	.25	.10	.05	.83
12	.21	.38	.70	.88	1.3	6.5	1.9	.92	.35	.14	.04	.87
13	.27	.36	.62	.88	4.0	1.4	1.9	.91	.28	.24	.02	1.0
14	.29	.45	.62	1.1	3.2	1.2	1.8	1.0	.31	.39	.02	.17
15	.30	.54	.62	1.8	1.4	1.4	1.8	.88	.18	.62	.02	.16
16	.28	.50	.62	2.1	1.7	1.7	1.7	.88	.22	.49	.02	.17
17	.31	.47	.76	1.5	1.6	2.6	1.5	.84	.24	.31	.05	.17
18	.31	.37	1.0	1.3	1.6	1.6	1.2	.92	.24	.24	.09	.18
19	.24	.44	1.1	1.2	1.5	1.7	1.5	.87	.24	.24	.12	.21
20	.19	.76	.94	1.1	3.3	1.6	1.6	.90	.24	.41	.22	.27
21	.15	.76	.89	1.1	2.1	1.6	1.4	.99	.24	.40	.34	.33
22	.11	.84	.85	1.0	3.1	1.2	1.4	1.2	.24	.36	.45	.55
23	.11	.70	.82	.92	3.1	.73	1.4	1.0	.24	.35	.37	.71
24	.15	.52	.77	.88	1.9	.73	1.4	.61	.24	.34	.71	.24
25	.18	.37	.74	1.1	1.8	.87	1.5	1.0	.24	.31	.64	.28
26	.14	.26	.71	1.2	1.8	3.3	1.4	1.7	.18	.31	.20	1.4
27	.10	.23	.69	1.2	1.7	8.7	1.5	1.6	.24	.29	.06	.71
28	.14	.23	.66	1.2	1.6	8.7	1.5	1.3	.24	.24	.11	.98
29	.15	.22	.65	1.2	---	3.5	.85	.37	.24	.20	.24	1.4
30	.18	.22	.63	2.0	---	1.9	.87	.52	.18	.18	.12	1.9
31	.28	---	.62	2.9	---	1.7	---	.57	---	.18	.16	---
TOTAL	7.95	11.87	22.36	35.53	50.65	66.22	43.10	30.16	10.05	7.18	4.75	17.84
MEAN	.26	.40	.72	1.15	1.81	2.14	1.44	.97	.34	.23	.15	.59
MAX	.49	.84	1.3	2.9	4.0	8.7	3.5	1.7	1.3	.62	.71	1.9
MIN	.10	.18	.22	.56	.51	.55	.62	.37	.16	.06	.02	.16
AC-FT	16	24	44	70	100	131	85	60	20	14	9.4	35
CAL YR 1978	TOTAL	611.16	MEAN	1.67	MAX	110	MIN	.06	AC-FT	1210		
WTR YR 1979	TOTAL	307.66	MEAN	.84	MAX	8.7	MIN	.02	AC-FT	610		

SALINAS RIVER BASIN

11144200 SALSIPUEDES CREEK NEAR POZO, CA

LOCATION.--Lat 35°17'34", long 120°27'07", in NW¼SW¼ sec.23, T.30 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060005, on left bank 1.9 mi (3.1 km) upstream from mouth, and 4.4 mi (7.1 km) west of Pozo.

DRAINAGE AREA.--5.91 mi² (15.31 km²).

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

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 1,480 ft (451 m), from topographic map.

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

AVERAGE DISCHARGE.--10 years, 1.97 ft³/s (0.056 m³/s), 1,430 acre-ft/yr (1.76 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,160 ft³/s (32.9 m³/s) Jan. 16, 1978, gage height, 5.88 ft (1.792 m), from rating curve extended above 67 ft³/s (1.90 m³/s) on basis of slope-area measurements at gage heights 4.58 ft (1.396 m) and 5.88 ft (1.792 m); no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 80 ft³/s (2.3 m³/s) and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Feb. 13	2045	*146	4.13	2.33	0.710	Mar. 27	0315	108	3.06	2.11	0.643
Feb. 20	2015	142	4.02	2.31	0.704						

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	2.5	2.2	6.6	.51	.04	.01		
2			0	0	4.4	1.5	5.0	.50	.03	.02		
3			0	0	1.8	1.2	4.0	.43	.03	.01		
4			0	0	.88	1.1	3.4	.37	.03	.01		
5			0	.02	.58	.95	2.9	.35	.03	.02		
6			0	.02	.42	.89	2.6	.33	.02	.03		
7			0	.02	.34	.79	2.2	.31	.02	.01		
8			0	.04	.28	.76	2.0	.30	.02	.01		
9			0	.66	.23	.66	1.8	.26	.02	.02		
10			0	.05	.22	.58	1.6	.22	.02	.01		
11			0	.02	.19	.53	1.5	.19	.02	.02		
12			0	.02	.17	.53	1.4	.16	.02	.02		
13			0	.01	.20	.56	1.3	.14	.02	.01		
14			0	.50	.25	.46	1.2	.13	.02	.01		
15			0	11	5.1	.71	1.1	.13	.02	.01		
16			0	4.3	3.5	1.3	1.1	.13	.02	0		
17			0	1.2	1.9	3.5	1.0	.12	.02	0		
18			0	1.2	1.3	1.5	.90	.12	.02	0		
19			.01	.61	1.1	2.0	.85	.11	.02	0		
20			0	.39	20	1.8	.79	.11	.01	0		
21			0	.30	33	1.4	.79	.10	.01	0		
22			0	.22	24	1.1	.76	.10	.01	0		
23			0	.19	18	1.0	.70	.09	.01	0		
24			0	.16	8.2	.94	.70	.08	.01	0		
25			0	.14	5.0	.89	.70	.08	.01	0		
26			0	.10	3.5	1.7	.73	.07	.01	0		
27			0	.10	2.5	32	.77	.06	.01	0		
28			0	.10	2.0	40	.70	.05	.02	0		
29			0	.08	---	31	.67	.05	.01	0		
30			0	.30	---	14	.51	.04	.01	0		
31		---	0	6.4	---	9.1	---	.04	---	0		---
TOTAL	0	0	.01	28.15	186.11	156.65	50.27	5.68	.56	.22	0	0
MEAN	0	0	.0003	.91	6.65	5.05	1.68	.18	.019	.007	0	0
MAX	0	0	.01	11	33	40	6.6	.51	.04	.03	0	0
MIN	0	0	0	0	.17	.46	.51	.04	.01	0	0	0
AC-FT	0	0	.02	56	369	311	100	11	1.1	.4	0	0
CAL YR 1978	TOTAL	2844.63	MEAN	7.79	MAX	270	MIN	0	AC-FT	5640		
WTR YR 1979	TOTAL	427.65	MEAN	1.17	MAX	40	MIN	0	AC-FT	848		

SALINAS RIVER BASIN

11144500 SANTA MARGARITA LAKE NEAR POZO, CA

LOCATION.--Lat 35°20'14", long 120°30'08", in NW¼NW¼ 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 (3 km) upstream from Pilitas Creek, and 7.5 mi (12.1 km) northwest of Pozo.

DRAINAGE AREA.--112 mi² (290 km²).

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

REVISED RECORDS.--WSP 1715: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). 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 (28.4 hm³) between elevations 1,220.3 ft (371.95 m), bottom of outlet pipe and 1,300.7 ft (396.45 m) spillway crest, NGVD. Additional storage of 400 acre-ft (493,000 m³) is not available for release. Water diverted at dam into pipeline to small reservoir 10 mi (16 km) below, from which it is pumped to Camp San Luis Obispo and city of San Luis Obispo for water supply; water is also released down natural channel of river. Figures given herein represent usable contents.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 37,000 acre-ft (45.6 hm³) Jan. 25, 1969, elevation, 1,313.30 ft (400.294 m); minimum, 1,730 acre-ft (2.13 hm³) Nov. 6-10, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 24,200 acre-ft (29.8 hm³) Mar. 29, elevation, 1,302.23 ft (396.920 m); minimum, 17,000 acre-ft (21.0 hm³) Jan. 4, 5, 13, 30; minimum elevation, 1,291.12 ft (393.533 m) Jan. 5.

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

1220.3	0	1245	2000	1270	7700	1295	19300
1225	198	1250	2800	1275	9500	1300	22400
1230	470	1255	3800	1280	11500	1310	30700
1235	840	1260	4900	1285	13800	1320	41000
1240	1350	1265	6200	1290	16400		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18800	17900	17600	17100	17100	20600	23200	23000	22300	21300	20200	18900
2	18800	17800	17600	17100	17200	20600	23000	23000	22300	21300	20100	18900
3	18700	17800	17600	17100	17200	20700	23000	23000	22300	21300	20100	18800
4	18700	17800	17600	17000	17200	20700	23100	22900	22200	21200	20000	18800
5	18700	17800	17500	17000	17200	20700	23100	22900	22200	21200	20000	18700
6	18600	17800	17500	17100	17200	20700	23100	22900	22200	21200	19900	18700
7	18600	17700	17500	17100	17200	20700	23100	22900	22100	21100	19900	18700
8	18600	17700	17500	17100	17200	20800	23000	22900	22100	21100	19900	18600
9	18500	17700	17500	17100	17200	20800	23000	22900	22100	21100	19800	18600
10	18500	17700	17400	17100	17200	20800	23000	22800	22000	21000	19800	18600
11	18500	17700	17400	17100	17200	20800	23000	22800	22000	21000	19700	18500
12	18400	17700	17400	17100	17200	20800	23000	22800	22000	20900	19700	18500
13	18400	17700	17400	17000	17200	20800	23000	22800	21900	20900	19700	18400
14	18400	17700	17400	17100	17500	20800	23000	22800	21900	20900	19600	18400
15	18300	17700	17400	17100	17700	20800	23000	22700	21900	20800	19600	18400
16	18300	17600	17300	17200	17800	20800	23000	22700	21800	20800	19500	18300
17	18300	17600	17300	17200	17800	20900	23000	22700	21800	20800	19500	18300
18	18200	17600	17400	17200	17800	20900	23000	22700	21800	20700	19400	18200
19	18200	17600	17400	17200	17800	20900	23000	22600	21800	20700	19400	18200
20	18200	17600	17400	17200	17900	21000	23000	22600	21700	20600	19400	18100
21	18200	17600	17300	17200	18300	21000	23000	22600	21700	20600	19300	18100
22	18200	17600	17300	17200	19100	21000	23000	22600	21700	20600	19300	18100
23	18100	17700	17300	17200	19700	21100	23000	22500	21600	20500	19200	18000
24	18100	17600	17300	17200	20100	21100	23000	22500	21600	20500	19200	18000
25	18000	17600	17300	17100	20300	21100	23000	22500	21600	20400	19200	17900
26	18000	17600	17200	17100	20400	21100	23000	22500	21500	20400	19100	17900
27	18000	17600	17200	17100	20500	21400	23000	22400	21500	20400	19100	17900
28	18000	17600	17200	17100	20500	23300	23000	22400	21500	20300	19100	17800
29	17900	17600	17200	17100	---	24200	23000	22400	21400	20300	19000	17800
30	17900	17600	17100	17000	---	23900	23000	22400	21400	20200	19000	17800
31	17900	---	17100	17100	---	23500	---	22300	---	20200	18900	---
MAX	18800	17900	17600	17200	20500	24200	23200	23000	22300	21300	20200	18900
MIN	17900	17600	17100	17000	17100	20600	23000	22300	21400	20200	18900	17800
(†)	1292.63	1292.09	1291.27	1291.18	1296.97	1301.30	1300.67	1299.77	1298.30	1296.44	1294.39	1292.41
(‡)	-1000	-300	-500	0	+3400	+3000	-500	-700	-900	-1200	-1300	-1100
(††)	589	436	384	389	330	385	470	638	672	698	684	674

CAL YR 1978 † +9050 †† 4690

WTR YR 1979 † -1100 †† 6350

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

†† Diversion, in acre-feet, for municipal supply; furnished by county of San Luis Obispo.

11144600 SALINAS RIVER BELOW SALINAS DAM, NEAR POZO, CA

LOCATION.--Lat 35°20'07", long 120°30'10", in NW¼NW¼ sec.8, T.30 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060005, on left bank 900 ft (274 m) downstream from Salinas Dam, 2 mi (3 km) upstream from Pilitas Creek, and 7.5 mi (12.1 km) northwest of Pozo.

DRAINAGE AREA.--112 mi² (290 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 1,180 ft (360 m), from topographic map.

REMARKS.--Records good. Flow completely regulated by Santa Margarita Lake (station 11144500), 900 ft (274 m) upstream, and water diverted to Camp San Luis Obispo and city of San Luis Obispo.

AVERAGE DISCHARGE.--6 years, 20.8 ft³/s (0.589 m³/s), 15,070 acre-ft/yr (18.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,160 ft³/s (203 m³/s) Feb. 10, 1978, gage height, 10.24 ft (3.121 m); no flow for many days in 1975-76.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 890 ft³/s (25.2 m³/s) Mar. 20, gage height, 5.10 ft (1.554 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	.94	.83	11	.10	.22	242	.30	.02	3.6	2.8	3.3
2	4.1	.92	.78	11	.10	.06	109	.05	.01	3.7	2.8	3.3
3	4.1	.94	.76	11	.03	.02	26	.02	.01	3.7	2.8	3.3
4	4.1	.94	.72	3.3	.02	.02	35	.01	0	3.5	2.8	3.3
5	4.1	.94	.70	1.5	.02	.01	33	.01	.11	3.7	2.6	3.3
6	4.1	.89	.70	1.5	.01	.01	55	0	.11	3.8	4.1	3.3
7	4.1	.88	.67	1.5	.01	.01	59	0	.02	3.7	4.6	3.2
8	4.1	1.1	.60	1.5	.11	.01	57	.14	.02	3.9	4.6	3.1
9	4.1	1.1	.60	1.5	.03	.01	27	.05	.01	3.6	4.5	3.1
10	4.1	1.1	.60	1.5	.01	.01	4.7	.01	.01	2.6	4.4	3.1
11	4.1	1.2	1.7	1.5	0	.01	.23	.01	.17	3.1	4.5	3.9
12	4.2	1.1	4.3	1.5	0	.01	21	0	.23	2.8	4.5	4.1
13	4.2	1.1	4.3	1.5	.07	.11	16	0	.87	2.7	4.6	4.2
14	4.1	1.0	4.4	1.6	.12	.05	.09	0	.72	2.7	4.6	4.3
15	4.2	1.0	4.3	1.9	.03	.02	.27	.13	.84	2.7	4.9	4.2
16	4.3	1.6	4.3	1.6	.01	.02	.50	.04	.64	2.8	5.0	4.2
17	5.7	1.6	4.4	1.5	.01	.05	.49	.01	.58	3.3	5.0	4.1
18	5.2	.94	4.5	4.1	.01	.02	.38	.01	.29	3.0	4.8	4.4
19	4.8	.94	11	9.0	.01	.03	.52	0	.01	3.0	4.6	3.9
20	4.8	7.0	10	9.0	.07	.18	.32	0	.16	3.0	4.5	4.0
21	4.8	.89	10	9.2	.12	.06	.31	1.0	.39	3.0	3.4	4.0
22	4.8	1.0	10	9.3	.34	.02	.22	.49	.22	3.0	3.5	3.9
23	4.8	.92	11	9.3	.16	.01	.15	.05	.01	3.0	4.7	4.0
24	4.8	.88	10	9.3	.09	.01	.37	.01	0	3.1	4.9	4.0
25	4.8	.85	10	9.3	.05	.01	.10	.01	1.8	2.8	5.4	3.9
26	4.8	.81	11	9.3	.03	.03	.04	.01	3.8	2.8	5.1	4.0
27	2.4	.81	11	9.3	.02	.27	.03	.01	2.7	2.8	2.8	4.0
28	.88	.81	11	9.3	.02	258	.01	0	2.9	2.9	3.7	3.9
29	.90	.81	11	9.3	---	738	.01	.27	3.3	3.0	4.5	4.0
30	.94	.81	11	9.5	---	601	.01	.06	3.5	3.2	4.2	4.0
31	.91	---	11	3.7	---	354	---	.03	---	2.8	3.3	---
TOTAL	121.43	35.82	177.16	175.3	1.60	1952.29	688.75	2.73	23.45	97.3	128.5	113.3
MEAN	3.92	1.19	5.71	5.65	.057	63.0	23.0	.088	.78	3.14	4.15	3.78
MAX	5.7	7.0	11	11	.34	738	242	1.0	3.8	3.9	5.4	4.4
MIN	.88	.81	.60	1.5	0	.01	.01	0	0	2.6	2.6	3.1
AC-FT	241	71	351	348	3.2	3870	1370	5.4	47	193	255	225
CAL YR 1978	TOTAL	35543.68	MEAN	97.4	MAX	5310	MIN	.03	AC-FT	70500		
WTR YR 1979	TOTAL	3517.63	MEAN	9.64	MAX	738	MIN	0	AC-FT	6980		

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 (2.6 km) upstream from mouth, and 4 mi (6 km) west of Templeton.

DRAINAGE AREA.--18.2 mi² (47.1 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 860 ft (262 m), from topographic map.

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

AVERAGE DISCHARGE.--18 years, 13.7 ft³/s (0.388 m³/s), 9,930 acre-ft/yr (12.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,060 ft³/s (172 m³/s) Jan. 19, 1969, gage height, 11.12 ft (3.389 m) in gage well, 11.75 ft (3.581 m) from floodmarks, from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 558 ft³/s (15.8 m³/s) Mar. 29, gage height, 5.85 ft (1.783 m), no peak above base of 600 ft³/s (17 m³/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.43	.50	58	32	44	3.8	1.3	.10		
2		9.8	.57	.48	47	22	33	3.6	1.1	.10		
3		12	.45	.48	29	19	21	3.3	.95	.10		
4		9.1	.42	.52	20	17	17	3.3	.83	.07		
5		.49	.45	.63	16	16	15	3.2	.74	.07		
6		.07	.66	.71	12	14	13	2.9	.72	.06		
7		.02	.66	.76	9.5	13	10	2.9	.80	.04		
8		0	.55	.66	7.8	12	9.3	2.7	.70	.03		
9		0	.51	35	6.3	12	11	2.6	.57	.02		
10		0	.57	7.0	5.3	10	11	2.4	.47	.01		
11		.01	.62	3.2	4.4	9.5	10	2.2	.42	0		
12		.02	.62	2.6	3.8	9.5	9.3	2.1	.38	0		
13		.35	.62	1.7	29	9.3	8.6	1.9	.32	0		
14		.26	.62	39	144	8.0	7.6	1.9	.31	0		
15		.11	.66	125	44	10	7.2	1.9	.25	0		
16		.09	.76	27	34	13	7.5	1.9	.29	0		
17		.07	1.4	16	25	15	7.9	1.9	.51	0		
18		.07	4.6	26	21	11	6.8	1.9	.47	0		
19		.07	3.5	16	18	10	6.0	2.0	.38	0		
20		.10	1.5	11	71	11	5.6	2.2	.32	0		
21		2.2	1.1	9.0	195	8.9	5.3	2.2	.31	0		
22		3.5	.91	6.8	120	8.5	4.9	2.3	.27	0		
23		1.2	.78	5.2	140	8.2	4.8	1.8	.27	0		
24		.49	.74	4.6	70	7.2	4.3	1.8	.26	0		
25		.30	.73	4.0	49	6.6	4.1	1.6	.21	0		
26		.22	.74	3.0	38	7.0	5.9	1.4	.17	0		
27		.18	.64	2.6	31	71	7.9	1.5	.14	0		
28		.15	.62	2.6	26	191	4.5	1.5	.13	0		
29		.18	.56	2.3	---	282	3.8	1.5	.11	0		
30		.32	.56	6.0	---	96	3.7	1.4	.11	0		
31		---	.54	101	---	59	---	1.3	---	0		---
TOTAL	0	41.37	28.09	461.34	1274.1	1018.7	310.0	68.9	13.81	.60	0	0
MEAN	0	1.38	.91	14.9	45.5	32.9	10.3	2.22	.46	.019	0	0
MAX	0	12	4.6	125	195	282	44	3.8	1.3	.10	0	0
MIN	0	0	.42	.48	3.8	6.6	3.7	1.3	.11	0	0	0
AC-FT	0	82	56	915	2530	2020	615	137	27	1.2	0	0
CAL YR 1978	TOTAL	10232.03	MEAN	28.0	MAX	870	MIN	0	AC-FT	20300		
WTR YR 1979	TOTAL	3216.91	MEAN	8.81	MAX	282	MIN	0	AC-FT	6380		

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 (5.6 km) upstream from Huerhuero Creek.

DRAINAGE AREA.--390 mi² (1,010 km²).

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

REVISED RECORDS.--WSP 981: 1942.

GAGE.--Water-stage recorder. Datum of gage is 670.61 ft (240.402 m) 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 fair. Flow regulated by Santa Margarita Lake (station 11144500) 32 mi (51 km) upstream beginning in 1941. Small diversions above station.

AVERAGE DISCHARGE.--36 years, 87.0 ft³/s (2.464 m³/s), 63,030 acre-ft/yr (77.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,600 ft³/s (413 m³/s) Jan. 18, 1973, gage height, 14.61 ft (4.453 m), from rating curve extended above 6,200 ft³/s (176 m³/s); maximum gage height, 17.24 ft (5.255 m), Apr. 3, 1958; no flow for long periods in each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 23.8 ft (7.25 m) from floodmarks, discharge, 28,000 ft³/s (793 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s (31 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 21	0615	1320	37.4	8.28	2.524
Mar. 29	0530	*3350	94.9	9.45	2.880

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	373	151	549	33				
2				0	172	137	444	30				
3				0	139	114	321	26				
4				0	100	102	251	24				
5				0	80	96	228	21				
6				0	66	90	203	21				
7				0	62	83	205	21				
8				0	58	75	197	20				
9				0	52	71	178	19				
10				0	52	64	160	13				
11				0	43	59	133	11				
12				0	43	62	123	9.2				
13				0	50	60	113	7.8				
14				.05	497	60	119	6.2				
15				103	255	60	95	4.5				
16				54	148	65	80	3.5				
17				31	123	72	84	2.6				
18				26	106	72	86	1.8				
19				30	85	70	76	1.7				
20				26	86	64	67	1.5				
21				23	1000	66	65	1.3				
22				23	562	60	59	.99				
23				25	858	56	55	.54				
24				25	423	52	50	.13				
25				26	272	50	45	0				
26				19	203	52	45	0				
27				18	166	255	43	0				
28				19	157	752	39	0				
29				20	---	2300	35	0				
30				23	---	1120	34	0				
31		---		83	---	771	---	0	---			---
TOTAL	0	0	0	574.05	6231	7161	4182	280.76	0	0	0	0
MEAN	0	0	0	18.5	223	231	139	9.06	0	0	0	0
MAX	0	0	0	103	1000	2300	549	33	0	0	0	0
MIN	0	0	0	0	43	50	34	0	0	0	0	0
AC-FT	0	0	0	1140	12360	14200	8290	557	0	0	0	0
CAL YR 1978	TOTAL	112356.85	MEAN	308	MAX	10500	MIN	0	AC-FT	222900		
WTR YR 1979	TOTAL	18428.81	MEAN	50.5	MAX	2300	MIN	0	AC-FT	36550		

SALINAS RIVER BASIN

11148500 ESTRELLA RIVER NEAR ESTRELLA, CA

LOCATION.--Lat 35°43'02", long 120°38'21", in NW¼NW¼ sec.36, T.25 S., R.12 E., San Luis Obispo County, Hydrologic Unit 18060004, on right bank 0.2 mi (0.3 km) downstream from mouth of Ranchito Canyon, and 1.9 mi (3.1 km) northwest of Estrella.

DRAINAGE AREA.--922 mi² (2,388 km²), not including Carrizo Plains.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 671.59 ft (204.701 m) 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.--25 years, 29.9 ft³/s (0.847 m³/s), 21,660 acre-ft/yr (26.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,500 ft³/s (920 m³/s) Feb. 24, 1969, gage height, 10.4 ft (3.17 m) from floodmarks, by slope-area measurement of maximum flow; maximum gage height, 10.9 ft (3.32 m), Jan. 25, 1969, from floodmarks; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 630 ft³/s (17.8 m³/s) Mar. 29 (2400 hrs), gage height, 2.93 ft (0.893 m), no other peak above base of 200 ft³/s (5.7 m³/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	11	6.9	39					
2				0	7.8	5.5	25					
3				0	9.4	5.2	15					
4				0	6.7	4.2	8.5					
5				0	5.3	3.8	7.4					
6				0	4.1	3.7	5.8					
7				0	3.0	4.4	5.7					
8				0	2.8	4.7	6.6					
9				0	2.5	5.3	6.5					
10				0	2.5	5.3	5.5					
11				0	2.5	5.8	4.7					
12				0	2.5	9.4	4.5					
13				0	4.4	13	4.6					
14				1.6	6.1	8.0	4.3					
15				13	29	6.7	3.7					
16				6.5	16	13	3.7					
17				4.6	8.9	9.8	3.6					
18				4.3	7.5	8.5	3.0					
19				2.6	7.7	8.5	2.9					
20				4.1	15	8.5	3.0					
21				2.4	31	6.7	2.7					
22				1.8	77	12	2.1					
23				1.3	72	12	1.8					
24				1.9	84	7.5	1.7					
25				1.9	44	6.2	1.8					
26				1.2	23	7.4	1.6					
27				1.4	11	13	1.9					
28				1.9	7.9	32	.08					
29				1.3	---	285	0					
30				2.8	---	250	0					
31		---		7.7	---	66	---		---			---
TOTAL	0	0	0	62.3	504.6	838.0	176.68	0	0	0	0	0
MEAN	0	0	0	2.01	18.0	27.0	5.89	0	0	0	0	0
MAX	0	0	0	13	84	285	39	0	0	0	0	0
MIN	0	0	0	0	2.5	3.7	0	0	0	0	0	0
AC-FT	0	0	0	124	1000	1660	350	0	0	0	0	0
CAL YR 1978	TOTAL	84139.61	MEAN	231	MAX	18500	MIN	0	AC-FT	166900		
WTR YR 1979	TOTAL	1581.58	MEAN	4.33	MAX	285	MIN	0	AC-FT	3140		

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CA

LOCATION.--Lat 35°47'19", long 121°05'34", in SW¼NE¼ 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 (2.3 km) south of Bryson.

DRAINAGE AREA.--156 mi² (404 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 800 ft (244 m), from topographic map.

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

AVERAGE DISCHARGE.--8 years, 201 ft³/s (5,692 m³/s), 145,600 acre-ft/yr (180 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,000 ft³/s (1,610 m³/s) Jan. 16, 1978, gage height, 32.00 ft (9.754 m), from rating curve extended above 4,100 ft³/s (116 m³/s) on basis of slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,800 ft³/s (391 m³/s) Jan. 15 (0230 hours), gage height, 19.63 ft (5.983 m), no other peak above base of 10,000 ft³/s (280 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.11	20	13	490	291	496	53	16	2.4		
2	.08	.11	19	13	435	232	392	53	15	2.1		
3	.09	.10	18	13	324	199	325	51	14	2.2		
4	.07	.10	17	12	245	176	281	48	13	2.4		
5	.07	.11	15	19	200	158	247	45	12	2.3		
6	.07	.12	13	47	174	143	218	45	12	2.0		
7	.07	.12	12	36	156	127	197	44	11	1.9		
8	.06	.13	12	376	143	118	177	43	10	1.6		
9	.06	.14	12	668	129	108	161	41	9.5	1.4		
10	.06	.12	12	166	120	99	150	40	9.2	1.2		
11	.06	.12	12	106	112	93	139	38	8.5	1.1		
12	.06	.15	12	110	104	89	130	36	7.8	.54		
13	.06	.27	12	89	962	84	120	35	7.4	.64		
14	.06	.29	12	725	3130	79	113	32	6.7	.53		
15	.05	.26	11	4080	866	80	106	31	6.5	.45		
16	.05	.27	11	605	686	102	100	30	6.3	.32		
17	.05	1.7	13	310	488	117	97	30	6.1	.22		
18	.05	2.6	21	257	362	99	91	29	6.1	.15		
19	.06	2.7	49	196	300	92	85	27	6.0	.09		
20	.06	3.8	41	156	1110	87	82	26	5.9	.06		
21	.07	938	31	139	2250	82	78	27	5.5	.05		
22	.07	282	27	122	1410	79	74	27	5.1	.07		
23	.07	118	24	110	1380	76	73	26	5.0	.06		
24	.07	64	22	102	821	71	70	24	4.6	.04		
25	.06	45	20	95	578	68	66	23	4.2	.01		
26	.07	36	19	87	458	74	65	21	3.9	.01		
27	.07	30	18	82	349	1870	76	20	3.7	0		
28	.08	26	17	78	287	2990	65	19	3.3	0		
29	.08	23	16	75	---	2040	59	19	2.9	0		
30	.08	21	15	184	---	995	56	18	2.7	0		
31	.09	---	14	693	---	659	---	17	---	0		---
TOTAL	2.08	1596.32	567	9764	18069	11577	4389	1018	229.9	23.84	0	0
MEAN	.067	53.2	18.3	315	645	373	146	32.8	7.66	.77	0	0
MAX	.09	938	49	4080	3130	2990	496	53	16	2.4	0	0
MIN	.05	.10	11	12	104	68	56	17	2.7	0	0	0
AC-FT	4.1	3170	1120	19370	35840	22960	8710	2020	456	47	0	0
CAL YR 1978	TOTAL	186489.27	MEAN 511	MAX 17400	MIN 0	AC-FT 369900						
WTR YR 1979	TOTAL	47236.14	MEAN 129	MAX 4080	MIN 0	AC-FT 93690						

SALINAS RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.

WATER TEMPERATURES: Water years 1972-74.

SEDIMENT RECORDS: Water years 1972 to current year.

Published as station 11148800 "near Bryson" in water years 1958-59, 1961-71.

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 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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 21...	1420	--	1450	206	806	48	58	70
DEC 04...	1515	8.0	17	1	.05	--	--	--
JAN 08...	1445	9.5	33	2	.18	--	--	--
FEB 06...	1615	10.0	175	2	.94	--	--	--
FEB 22...	1330	9.5	1070	36	104	--	--	--
APR 05...	1200	14.0	253	3	2.0	--	--	--
MAY 21...	1645	21.5	27	3	.22	--	--	--
JUL 12...	1015	25.5	.91	2	.00	--	--	--

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 21...	82	89	91	94	97	100	--
DEC 04...	--	--	--	--	--	--	--
JAN 08...	--	--	--	--	--	--	--
FEB 06...	--	--	76	--	--	--	--
FEB 22...	--	--	75	80	88	99	100
APR 05...	--	--	78	--	--	--	--
MAY 21...	--	--	--	--	--	--	--
JUL 12...	--	--	--	--	--	--	--

RESERVOIRS IN SALINAS RIVER BASIN, CA

11149300 LAKE NACIMIENTO (formerly published as Nacimiento Reservoir).--Lat 35°45'29", long 120°53'01", in NW¼ 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 (13.8 km) southwest of Bradley, and 12.3 mi (19.8 km) upstream from mouth. DRAINAGE AREA, 319 mi² (826 km²). PERIOD OF RECORD, February 1957 to current year. Monthend contents prior to October 1970, published in 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 (432 hm³); usable capacity, 340,000 acre-ft (419 hm³) between elevations 670.0 ft (204.22 m), outlet and 800.0 ft (243.84 m), crest of spillway. Dead storage, 10,000 acre-ft (12.3 hm³). Figures given herein represent total contents. Reservoir is used for flood control and water released down Nacimiento River for irrigation. Record of contents furnished by Monterey County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 374,500 acre-ft (462 hm³) Apr. 7, 1958, elevation, 804.7 ft (245.27 m); minimum observed since appreciable storage was attained, 10,910 acre-ft (13.5 hm³) Oct. 11, 1960, elevation, 670.8 ft (204.46 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 305,900 acre-ft (377 hm³) May 3-16, elevation, 791.20 ft (241.158 m); minimum observed, 199,600 acre-ft (246.0 hm³) Sept. 30, elevation, 766.90 ft (233.751 m).

11150100 SAN ANTONIO RESERVOIR.--Lat 35°47'55", long 120°53'02", in SW¼ sec.34, T.24 S., R.10 E., Monterey County, Hydrologic Unit 18060005, at dam on San Antonio River, 0.7 mi (1.1 km) upstream from Sulphur Canyon, and 6.4 mi (10.3 km) southwest of Bradley. DRAINAGE AREA, 330 mi² (855 km²). PERIOD OF RECORD, December 1965 to current year. Monthend contents prior to October 1970, published in 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 (432 hm³); usable capacity, 330,000 acre-ft (407 hm³) between elevations 662.0 ft (201.78 m), minimum pool and 780.0 ft (237.74 m), crest of spillway. Dead storage, 20,000 acre-ft (24.7 hm³). Records given herein represent total contents. Reservoir is used for flood control and water released down San Antonio River for irrigation. Record of contents furnished by Monterey County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 348,900 acre-ft (430 hm³) May 27, 1969, elevation, 779.8 ft (237.68 m); minimum since appreciable storage was attained, 22,000 acre-ft (27.1 hm³) Dec. 13-17, 1977, elevation, 664.50 ft (202.540 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 281,700 acre-ft (347 hm³) May 4-13, elevation, 767.50 ft (233.934 m); minimum, 232,900 acre-ft (287 hm³) Nov. 10, 17-20, elevation, 757.10 ft (230.764 m).

MONTHEND CONTENTS, IN ACRE-FEET, AT 2400, OCTOBER 1978 TO SEPTEMBER 1979

Date	Lake Nacimiento	San Antonio Reservoir
Sept. 30, 1978.	232700	236100
Oct. 31.....	219400	233500
Nov. 30.....	214600	234000
Dec. 31.....	209700	234200
Jan. 31, 1979..	235100	242600
Feb. 28.....	261800	261700
Mar. 31.....	294100	275300
Apr. 30.....	305400	281400
May 31.....	300000	278800
June 30.....	276000	272800
July 31.....	274600	265600
Aug. 31.....	220400	258600
Sept. 30.....	199600	253200

SALINAS RIVER BASIN

11149400 NACIMIENTO RIVER BELOW NACIMIENTO DAM, NEAR BRADLEY, CA

LOCATION.--Lat 35°45'41", long 120°51'16", in NE¼NE¼ 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 (3.5 km) downstream from Nacimiento Dam, and 7.6 mi (12.2 km) southwest of Bradley.

DRAINAGE AREA.--322 mi² (834 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 597 ft (182 m) Corps of Engineers datum.

REMARKS.--Records good. Flow regulated by Nacimiento Dam (station 11149300), 2.2 mi (3.5 km) upstream. No diversion above station.

AVERAGE DISCHARGE (unadjusted).--22 years, 272 ft³/s (7.703 m³/s), 197,100 acre-ft/yr (243 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,340 ft³/s (208 m³/s) Feb. 25, 1969, gage height, 10.92 ft (3.328 m); no flow for many days in each year except 1964, 1966-76, 1978-79.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,710 ft³/s (76.7 m³/s) Feb. 21, gage height, 7.52 ft (2.292 m); minimum daily, 12 ft³/s (0.340 m³/s) Jan. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	323	170	162	103	37	2000	36	30	363	397	429	388
2	279	170	162	103	37	1430	36	30	305	397	428	389
3	158	169	161	103	34	43	36	31	305	397	429	388
4	82	170	161	103	35	36	41	31	305	396	429	388
5	15	170	162	104	34	35	35	32	305	395	433	389
6	15	170	162	103	34	35	34	29	420	397	511	388
7	99	170	162	104	35	35	33	29	460	397	511	388
8	173	169	162	106	35	35	32	30	460	394	509	387
9	174	167	162	105	35	35	38	30	460	395	507	385
10	128	167	162	59	36	35	55	30	460	393	506	386
11	146	165	162	13	36	35	54	28	460	406	506	386
12	320	164	162	12	36	36	53	27	460	518	505	313
13	320	165	161	12	38	36	51	27	410	449	464	250
14	321	165	101	14	38	36	49	27	397	449	394	251
15	321	164	16	18	38	36	48	21	397	447	394	251
16	321	165	15	14	39	36	47	51	397	446	394	249
17	320	165	15	15	39	36	46	138	397	445	394	270
18	320	165	16	15	39	36	45	188	397	441	394	381
19	320	165	53	22	39	36	45	183	397	439	393	381
20	319	166	109	31	41	36	44	177	397	438	393	381
21	318	169	109	32	1440	36	43	151	397	485	393	352
22	318	167	109	32	2540	36	42	189	397	549	392	330
23	318	165	110	34	2470	36	40	258	397	549	391	330
24	239	162	109	35	2400	36	36	258	397	547	391	329
25	170	162	107	34	2320	36	37	258	397	546	391	329
26	170	162	107	34	2240	36	36	258	397	545	392	283
27	170	162	107	34	2170	36	35	258	397	509	390	246
28	170	162	107	34	2100	36	35	258	397	431	391	247
29	170	161	105	34	---	36	34	258	397	431	390	247
30	170	162	103	37	---	36	33	258	397	430	390	246
31	170	---	104	41	---	36	---	258	---	429	389	---
TOTAL	6857	4975	3605	1540	18415	4474	1229	3831	11922	13887	13223	9928
MEAN	221	166	116	49.7	658	144	41.0	124	397	448	427	331
MAX	323	170	162	106	2540	2000	55	258	460	549	511	389
MIN	15	161	15	12	34	35	32	21	305	393	389	246
AC-FT	13600	9870	7150	3050	36530	8870	2440	7600	23650	27540	26230	19690
CAL YR 1978	TOTAL	170700.4	MEAN	468	MAX	6330	MIN	1.2	AC-FT	338600		
WTR YR 1979	TOTAL	93886.0	MEAN	257	MAX	2540	MIN	12	AC-FT	186200		

SALINAS RIVER BASIN

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 (0.6 km) upstream from Tule Canyon, and 3.3 mi (5.3 km) south of Lockwood.

DRAINAGE AREA.--223 mi² (578 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft (243.840 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. No regulation; some pumping above station.

AVERAGE DISCHARGE.--14 years, 102 ft³/s (2,889 m³/s), 73,900 acre-ft/yr (91.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft³/s (396 m³/s) Jan. 26, 1969, gage height, 8.25 ft (2.515 m); maximum gage height, 9.2 ft (2.80 m), from floodmarks, Dec. 6, 1966; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 15	1200	1510 42.8	7.60 2.316	Feb. 22	0145	1690 47.9	7.75 2.362
Feb. 14	0100	*1700 48.1	7.76 2.365				

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	15	16	310	301	255	87	8.7	.05		
2		0	13	15	260	277	231	82	7.7	.01		
3		0	11	15	210	250	226	72	10	0		
4		0	13	13	160	226	209	66	9.1	0		
5		0	10	18	130	205	190	58	9.0	0		
6		0	8.8	21	106	193	177	56	7.3	0		
7		0	8.1	22	109	192	166	55	6.2	0		
8		0	7.6	27	99	180	156	51	6.4	0		
9		0	7.0	281	84	164	160	47	5.6	0		
10		0	8.2	174	77	153	156	41	4.7	0		
11		0	8.5	127	64	143	145	37	4.8	0		
12		0	8.5	108	54	141	142	37	4.9	0		
13		0	7.8	95	182	134	134	35	4.5	0		
14		0	9.4	98	1080	126	126	38	3.1	0		
15		0	11	699	529	129	125	36	2.9	0		
16		0	11	364	436	144	122	36	3.2	0		
17		0	14	226	381	148	115	32	2.9	0		
18		0	20	181	365	147	110	28	2.8	0		
19		0	29	152	341	146	111	27	2.9	0		
20		0	30	124	345	139	102	31	3.2	0		
21		77	30	105	1060	146	108	40	1.9	0		
22		177	29	100	709	153	109	28	.76	0		
23		120	23	95	688	154	100	18	.97	0		
24		72	22	88	501	150	96	15	.66	0		
25		42	21	82	422	162	93	15	.51	0		
26		32	19	75	384	152	91	16	.55	0		
27		25	19	65	339	315	95	18	.58	0		
28		22	19	57	304	590	88	16	.37	0		
29		20	18	55	---	636	85	13	.30	0		
30		18	18	130	---	387	88	14	.11	0		
31		---	18	540	---	298	---	12	---	0		---
TOTAL	0	605	486.9	4168	9729	6681	4111	1157	116.61	.06	0	0
MEAN	0	20.2	15.7	134	347	216	137	37.3	3.89	.002	0	0
MAX	0	177	30	699	1080	636	255	87	10	.05	0	0
MIN	0	0	7.0	13	54	126	85	12	.11	0	0	0
AC-FT	0	1200	966	8270	19300	13250	8150	2290	231	.1	0	0
CAL YR 1978	TOTAL	109737.71	MEAN 301	MAX 6010	MIN 0	AC-FT 217700						
WTR YR 1979	TOTAL	27054.57	MEAN 74.1	MAX 1080	MIN 0	AC-FT 53660						

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 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC						
04...	1205	13.5	14	9	.34	--
JAN						
08...	1200	13.0	19	12	.62	54
FEB						
06...	1315	14.5	105	28	7.9	39
APR						
05...	1600	24.0	187	.65	33	27
MAY						
21...	1410	25.5	32	8	.69	--

11150500 SALINAS RIVER NEAR BRADLEY, CA

LOCATION.--Lat 35°55'49", long 120°52'04", in SW¼NW¼ sec.14, T.23 S., R.10 E., Monterey County, Hydrologic Unit 18060005, on left bank 6 mi (10 km) northwest of Bradley, and 7 mi (11 km) downstream from San Antonio River.

DRAINAGE AREA.--2,535 mi² (6,566 km²).

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

REVISED RECORDS.--WSP 1285: 1950.

GAGE.--Water-stage recorder. Datum of gage is 442.69 ft (134.932 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records fair. Flow partly regulated by Santa Margarita Lake (station 11144500), Lake Nacimiento, formerly Nacimiento Reservoir (station 11149300) beginning in February 1957, and San Antonio Reservoir (station 11150100) beginning in December 1965. Several small diversions above station.

AVERAGE DISCHARGE (unadjusted).--31 years, 441 ft³/s (12.49 m³/s), 319,500 acre-ft/yr (394 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117,000 ft³/s (3,310 m³/s) Feb. 24, 1969, gage height, 20.34 ft (6.200 m), from floodmarks; no flow at times in 1951, 1954-55, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,510 ft³/s (71.1 m³/s) Feb. 24, gage height, 8.33 ft (2.539 m); minimum daily, 33 ft³/s (0.93 m³/s) May 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	379	191	180	103	290	2020	747	53	277	480	421	435
2	380	187	174	107	306	1890	605	50	276	487	447	435
3	297	184	167	105	262	458	512	47	269	493	442	445
4	242	185	161	102	210	242	368	44	265	506	448	450
5	121	181	162	106	175	188	295	43	339	602	454	455
6	91	175	158	104	152	153	250	41	308	538	507	464
7	75	174	159	102	137	133	214	38	308	532	512	473
8	159	171	166	106	119	125	212	37	514	552	521	454
9	214	172	165	116	111	98	205	35	534	562	536	472
10	217	171	160	110	106	89	196	35	587	563	542	466
11	149	179	162	73	105	75	188	34	572	533	546	458
12	240	181	160	50	104	72	162	33	580	609	544	429
13	324	180	157	43	114	73	144	162	578	437	542	322
14	337	175	153	46	227	73	134	220	489	422	447	309
15	342	174	94	153	492	71	127	204	465	418	439	314
16	350	174	56	82	339	72	114	133	491	414	444	323
17	349	173	47	52	260	76	106	168	498	413	445	331
18	350	176	44	46	224	75	101	241	492	413	433	401
19	352	179	39	41	197	81	97	345	473	404	429	442
20	352	181	55	36	185	80	92	208	466	402	434	428
21	342	199	89	41	731	70	88	190	476	428	445	424
22	334	197	92	43	2370	61	82	159	454	524	435	388
23	342	183	95	43	2360	56	77	236	441	532	428	379
24	342	175	101	42	2370	54	76	259	434	533	437	389
25	236	175	103	44	2160	50	74	266	452	534	449	393
26	214	170	104	45	2120	50	71	265	474	529	458	372
27	207	164	107	48	2030	85	67	262	472	531	528	328
28	212	165	106	49	2010	437	64	265	532	452	488	318
29	213	174	104	48	---	1440	62	282	490	441	483	311
30	207	174	101	69	---	1440	56	276	475	423	478	314
31	198	---	100	120	---	1010	---	273	---	396	448	---
TOTAL	8167	5339	3721	2275	20266	10897	5586	4904	13481	15103	14610	11922
MEAN	263	178	120	73.4	724	352	186	158	449	487	471	397
MAX	380	199	180	153	2370	2020	747	345	587	609	546	473
MIN	75	164	39	36	104	50	56	33	265	396	421	309
AC-FT	16200	10590	7380	4510	40200	21610	11080	9730	26740	29960	28980	23650
CAL YR 1978	TOTAL	311884	MEAN 854	MAX 39200	MIN 39	AC-FT 618600						
WTR YR 1979	TOTAL	116271	MEAN 319	MAX 2370	MIN 33	AC-FT 230600						

SALINAS RIVER BASIN

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

LOCATION.--Lat 36°16'05", long 121°03'55", in NE¼ sec.23, T.19 S., R.8 E., Monterey County, Hydrologic Unit 18060005, on right bank 1.3 mi (2.1 km) downstream from Bitterwater Creek, 5 mi (8 km) northeast of King City, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--233 mi² (603 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 431.64 ft (131.564 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 24, 1967, at site 500 ft (152 m) upstream at datum 5.00 ft (1.524 m) higher.

REMARKS.--Records fair except those for periods of no gage-height record, Jan. 15 to Feb. 15, which are poor. No regulation; small diversions above station.

AVERAGE DISCHARGE.--21 years, 13.8 ft³/s (0.391 m³/s), 10,000 acre-ft/yr (12.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft³/s (306 m³/s) Jan. 25, 1969, gage height, 15.33 ft (4.673 m) in gage well, 16.2 ft (4.94 m), from floodmarks; no flow many days in 1961 and 1973.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s (7.1 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 15	0615	*2570	72.8	9.18	2.798
Feb. 21	0130	2110	59.8	8.72	2.658

Minimum daily discharge, 0.12 ft³/s (0.003 m³/s) July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.53	1.4	4.2	2.2	27	25	32	7.4	3.5	1.5	.61	.77
2	.56	1.5	4.8	2.2	20	22	34	7.5	3.2	1.9	.64	.94
3	.61	1.5	3.7	2.3	24	19	32	7.0	2.8	1.0	.66	.88
4	.68	1.6	3.2	2.3	19	17	31	6.6	2.9	.88	.80	1.0
5	.75	1.6	3.0	2.9	15	16	30	6.1	3.0	.83	.83	1.0
6	.83	1.5	2.8	2.9	12	15	29	6.0	3.1	.82	.97	.75
7	.89	1.3	2.7	2.7	8.6	13	28	6.0	2.4	.52	1.1	.77
8	.91	1.4	3.0	4.3	7.6	12	27	6.0	2.9	.55	1.2	.65
9	.92	1.4	3.2	23	7.0	12	26	5.6	2.8	.30	1.4	.72
10	1.0	1.3	3.1	10	7.2	11	24	5.2	2.7	.30	1.6	.77
11	1.0	1.5	2.9	5.8	7.8	10	22	4.7	2.7	.25	1.8	.75
12	1.0	1.4	2.4	6.6	9.0	9.9	21	4.5	2.7	.22	2.0	.73
13	1.1	1.6	2.4	5.3	14	9.4	20	4.4	2.6	.18	2.3	.68
14	1.0	1.3	2.4	10	20	8.7	20	4.1	3.1	.13	2.2	.65
15	1.1	1.2	2.5	465	83	8.4	18	4.0	3.6	.17	2.7	.85
16	1.2	1.2	2.6	140	44	11	18	4.1	4.3	.12	2.6	.88
17	1.2	1.2	2.9	60	37	19	18	4.1	4.4	.13	2.6	.84
18	1.3	1.2	3.6	20	19	16	17	4.0	4.0	.15	1.9	.98
19	1.3	1.3	5.7	8.4	22	17	15	3.7	3.3	.17	.38	.87
20	1.2	1.5	4.8	11	55	16	14	3.8	2.6	.27	.39	.76
21	1.1	18	3.5	7.0	431	35	13	3.9	1.7	.37	.46	.77
22	1.2	28	3.0	5.0	86	19	12	4.0	3.4	.71	.47	1.1
23	1.1	20	2.8	3.3	83	17	12	3.8	4.4	.57	.52	.88
24	1.1	11	2.6	5.0	49	16	11	3.6	4.9	.39	.48	.92
25	1.1	9.0	2.6	5.4	35	14	10	3.4	5.8	.24	.46	.99
26	1.2	8.1	2.5	4.0	30	14	11	3.3	4.4	.24	.53	1.1
27	1.2	7.6	2.4	3.4	25	29	11	3.2	3.6	.28	.52	1.1
28	1.3	6.5	2.4	5.2	21	30	9.8	3.4	2.4	.34	.51	1.2
29	1.3	5.5	2.4	4.1	---	48	8.5	4.0	1.9	.25	.62	1.2
30	1.4	4.8	2.3	7.0	---	59	7.7	3.5	1.7	.25	.62	1.2
31	1.4	---	2.2	20	---	39	---	3.6	---	.29	.81	---
TOTAL	32.48	146.4	94.6	856.3	1218.2	607.4	582.0	144.5	96.8	14.32	34.68	26.70
MEAN	1.05	4.88	3.05	27.6	43.5	19.6	19.4	4.66	3.23	.46	1.12	.89
MAX	1.4	28	5.7	465	431	59	34	7.5	5.8	1.9	2.7	1.2
MIN	.53	1.2	2.2	2.2	7.0	8.4	7.7	3.2	1.7	.12	.38	.65
AC-FT	64	290	188	1700	2420	1200	1150	287	192	28	69	53
CAL YR 1978	TOTAL	23850.90	MEAN	65.3	MAX	3700	MIN	.24	AC-FT	47310		
WTR YR 1979	TOTAL	3854.38	MEAN	10.6	MAX	465	MIN	.12	AC-FT	7650		

11151870 ARROYO SECO NEAR GREENFIELD, CA

LOCATION.--Lat 36°14'15", long 121°28'50", in NE¼SE¼ sec.36, T.19 S., R.4 E., Monterey County, Hydrologic Unit 18060005, on right bank 0.6 mi (1.0 km) downstream from Rocky Creek, and 14.5 mi (23.3 km) southwest of Greenfield.

DRAINAGE AREA.--113 mi² (293 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 780 ft (238 m), from topographic map. Prior to Aug. 27, 1970, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records fair except those for periods of no gage-height record, Feb. 13-23 and May 20 to July 21, which are poor. No regulation; small diversion for fishponds above station by pumping.

AVERAGE DISCHARGE.--18 years, 144 ft³/s (4.078 m³/s), 104,300 acre-ft/yr (129 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,800 ft³/s (617 m³/s) Dec. 6, 1966, gage height, 14.50 ft (4.420 m), present datum, from rating curve extended above 5,700 ft³/s (161 m³/s) on basis of slope-area measurement at gage-height 12.65 ft (3.856 m), present datum; maximum gage height, 16.34 ft (4.980 m) Feb. 7, 1978; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Nov. 21	0630	4000	113	12.93	3.941	Feb. 14	unknown	*5600	159	13.50	4.115
Jan. 8	1830	4840	137	15.24	4.036	Mar. 26	2400	2570	72.8	12.13	3.697
Jan. 14	2245	4350	123	13.06	3.981						

Minimum daily discharge, 13 ft³/s (0.368 m³/s) Sept. 17-20, 24, 25, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	21	44	39	146	543	535	160	73	27	17	21
2	23	22	41	39	141	472	480	158	71	27	16	21
3	23	22	38	37	137	435	438	153	69	28	16	21
4	23	22	37	37	149	406	404	148	67	26	16	21
5	23	22	35	44	183	383	379	145	66	24	16	19
6	23	22	34	43	210	363	360	146	64	23	15	18
7	23	22	34	39	199	346	341	146	62	23	15	17
8	23	22	34	856	186	333	325	141	61	23	15	17
9	23	22	34	568	180	320	311	136	59	22	15	17
10	23	22	34	226	180	305	299	132	58	21	15	16
11	23	26	34	195	180	292	289	127	56	21	19	16
12	23	28	34	177	180	282	279	124	54	20	22	16
13	22	39	33	117	979	272	267	118	51	20	21	15
14	22	31	33	739	1900	264	256	115	50	19	22	14
15	22	28	32	1350	1350	280	249	113	48	20	22	14
16	23	28	31	547	984	303	245	110	46	19	21	14
17	23	28	42	385	929	302	241	108	44	19	21	13
18	23	28	102	307	909	275	230	105	43	20	21	13
19	23	27	93	244	894	269	222	103	41	20	21	13
20	23	103	65	250	996	258	214	100	39	20	21	13
21	23	1280	57	201	1600	248	208	97	38	21	21	14
22	24	455	54	149	1250	244	202	95	37	29	21	14
23	23	168	51	149	1000	233	207	93	35	26	21	14
24	22	114	48	139	811	226	196	90	33	23	21	13
25	21	83	47	134	680	221	189	88	32	22	21	13
26	22	63	45	119	690	331	203	86	39	21	21	14
27	22	51	45	96	568	1320	197	84	61	21	21	15
28	22	46	43	92	522	1440	178	82	54	20	21	14
29	21	43	43	89	---	1120	170	80	50	19	21	13
30	21	42	42	152	---	767	164	78	48	18	21	16
31	21	---	40	161	---	618	---	76	---	17	21	---
TOTAL	700	2930	1379	7720	18133	13471	8278	3537	1549	679	598	469
MEAN	22.6	97.7	44.5	249	648	435	276	114	51.6	21.9	19.3	15.6
MAX	24	1280	102	1350	1900	1440	535	160	73	29	22	21
MIN	21	21	31	37	137	221	164	76	32	17	15	13
AC-FT	1390	5610	2740	15310	35970	26720	16420	7020	3070	1350	1190	930

CAL YR 1978 TOTAL 134762 MEAN 369 MAX 5400 MIN 21 AC-FT 267300
WTR YR 1979 TOTAL 59443 MEAN 163 MAX 1900 MIN 13 AC-FT 117900

SALINAS RIVER BASIN

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to current year.

WATER TEMPERATURES: Water years 1963-75, 1978 to current year.

SEDIMENT RECORDS: Water years 1962 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1962 to September 1975, October 1977 to current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 23,100 mg/L Feb. 7, 1978; minimum daily mean, no flow many days in 1966, 1968, and 1972.

SEDIMENT DISCHARGE: Maximum daily, 451,000 tons (409,000 metric tons) Feb. 7, 1978; minimum daily, 0 ton (0 metric ton) many days in 1966, 1968, 1970-73, 1977.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,740 mg/L, Feb. 13; minimum daily mean, 1 mg/L Dec. 14-16, Jan. 3, 4, 29.

SEDIMENT DISCHARGE: Maximum daily, 26,300 tons (23,900 metric tons) Jan. 8; minimum daily, 0.08 ton (0.07 metric ton) Dec. 16.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	10.0	2.5	---	9.5	---	16.0	---	---	---	---
2	22.0	14.0	10.0	---	5.0	10.5	---	---	23.0	22.0	25.0	25.0
3	---	9.5	---	---	---	11.0	14.0	---	---	---	---	---
4	---	---	---	---	---	---	---	19.0	---	22.5	25.0	---
5	22.0	14.0	8.0	8.0	7.0	13.0	14.0	---	24.0	---	---	25.0
6	---	---	---	6.0	---	---	---	17.0	---	23.0	---	---
7	---	---	---	7.0	---	---	13.0	---	24.0	---	25.0	---
8	---	---	3.0	7.0	8.0	14.0	---	17.0	---	---	---	25.0
9	22.0	14.0	---	7.0	---	---	14.0	---	---	23.5	---	---
10	---	---	---	---	---	---	---	17.0	---	---	25.0	---
11	---	12.0	4.0	7.0	8.0	13.0	14.0	---	23.0	24.0	---	26.0
12	15.0	10.0	---	8.0	---	---	---	---	---	---	---	---
13	---	---	---	6.0	10.0	15.0	---	20.0	22.0	25.0	25.0	---
14	---	---	---	5.0	10.0	---	16.5	---	---	---	---	26.0
15	15.0	10.0	5.0	3.0	10.0	13.0	---	---	22.0	---	25.0	---
16	---	---	---	---	10.0	13.0	---	21.5	---	25.0	---	---
17	---	---	5.0	---	10.0	12.0	11.0	---	22.0	---	21.5	24.0
18	---	10.0	6.0	5.0	---	10.0	---	21.0	---	24.0	24.0	---
19	15.0	---	5.0	---	10.5	10.0	---	---	21.0	---	---	---
20	---	16.0	---	---	9.0	10.0	11.0	---	---	23.0	23.0	21.0
21	---	11.0	---	---	9.0	---	---	21.0	---	---	---	21.5
22	---	8.0	6.0	4.0	10.0	10.0	12.5	---	21.0	---	23.0	---
23	14.0	---	---	---	11.0	---	14.0	---	---	25.0	---	---
24	18.0	9.0	---	4.0	---	---	---	---	21.0	---	---	20.0
25	---	---	---	5.0	10.5	12.0	15.0	---	---	25.0	23.5	---
26	14.0	---	5.0	---	11.0	12.0	---	---	21.0	---	---	---
27	---	9.0	---	---	---	12.0	---	---	---	---	23.0	20.0
28	---	---	---	6.0	---	12.0	---	---	22.0	25.0	---	---
29	13.0	---	3.0	---	---	---	16.0	18.0	---	---	23.0	---
30	---	9.0	---	5.0	---	12.0	---	---	22.0	26.0	---	---
31	13.0	---	---	4.0	---	---	---	23.0	---	---	23.0	---
MEAN	16.5	11.0	6.0	5.5	9.5	12.0	14.0	19.0	22.0	24.0	24.0	23.5
WTR YR 1979	MEAN	15.0	MAX	26.0	MIN	2.5						

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	24	15	.97	21	4	.23	44	2	.24
2	23	7	.43	22	2	.12	41	5	.55
3	23	8	.50	22	2	.12	38	5	.51
4	23	9	.56	22	2	.12	37	4	.40
5	23	10	.62	22	2	.12	35	3	.28
6	23	10	.62	22	3	.18	34	3	.28
7	23	11	.68	22	5	.30	34	2	.18
8	23	11	.68	22	8	.48	34	2	.18
9	23	11	.68	22	10	.59	34	2	.18
10	23	9	.56	22	9	.53	34	2	.18
11	23	6	.37	26	6	.42	34	2	.18
12	23	3	.19	28	4	.30	34	2	.18
13	22	3	.18	39	6	.63	33	2	.18
14	22	3	.18	31	4	.33	33	1	.09
15	22	3	.18	28	3	.23	32	1	.09
16	23	3	.19	28	3	.23	31	1	.08
17	23	3	.19	28	3	.23	42	19	2.9
18	23	2	.12	28	3	.23	102	36	12
19	23	2	.12	27	3	.22	93	2	.50
20	23	2	.12	103	164	71	65	5	.88
21	23	2	.12	1280	2670	18300	57	12	1.8
22	24	2	.13	455	62	97	54	15	2.2
23	23	2	.12	168	7	3.2	51	13	1.8
24	22	3	.18	114	3	.92	48	10	1.3
25	21	4	.23	83	3	.67	47	7	.89
26	22	6	.36	63	3	.51	45	5	.61
27	22	7	.42	51	2	.28	45	3	.36
28	22	8	.48	46	2	.25	43	2	.23
29	21	9	.51	43	2	.23	43	2	.23
30	21	8	.45	42	2	.23	42	2	.23
31	21	7	.40	---	---	---	40	2	.22
TOTAL	700	---	11.54	2930	---	18479.90	1379	---	29.93
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	39	2	.21	146	4	1.6	543	45	69
2	39	2	.21	141	4	1.5	472	20	25
3	37	1	.10	137	4	1.5	435	25	29
4	37	1	.10	149	4	1.6	406	19	21
5	44	3	.36	183	4	2.0	383	16	17
6	43	8	.93	210	4	2.3	363	16	16
7	39	6	.63	199	4	2.1	346	16	15
8	856	2510	26300	186	4	2.0	333	17	15
9	568	73	137	180	4	1.9	320	18	16
10	226	6	3.7	180	4	1.9	305	18	15
11	195	12	6.3	180	4	1.9	292	18	14
12	177	7	3.3	180	4	1.9	282	17	13
13	117	10	3.2	979	2740	15600	272	17	12
14	739	1740	12500	1900	2330	12600	264	16	11
15	1350	1110	8750	1350	300	1090	280	17	13
16	547	23	34	984	140	372	303	15	12
17	385	19	20	929	75	188	302	12	9.8
18	307	16	13	909	50	123	275	11	8.2
19	244	14	9.2	894	20	48	269	9	6.5
20	250	13	8.8	996	558	1670	258	6	4.2
21	201	13	7.1	1600	1180	5560	248	5	3.3
22	149	13	5.2	1250	870	3040	244	4	2.6
23	149	14	5.6	1000	220	594	233	4	2.5
24	139	12	4.5	811	175	383	226	4	2.4
25	134	3	1.1	680	145	266	221	4	2.4
26	119	2	.64	690	159	331	331	28	123
27	96	4	1.2	568	45	69	1320	301	1260
28	92	5	1.2	522	23	32	1440	244	1200
29	89	1	.24	---	---	---	1120	43	130
30	152	6	3.0	---	---	---	767	34	70
31	161	4	1.7	---	---	---	618	28	47
TOTAL	7720	---	47822.52	18133	---	41988.2	13471	---	3184.9

SALINAS RIVER BASIN

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY); WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	535	25	36	160	4	1.7	73	3	.59
2	480	23	30	158	2	.85	71	4	.77
3	438	21	25	153	2	.83	69	4	.75
4	404	13	14	148	2	.80	67	5	.90
5	379	9	9.2	145	2	.78	66	6	1.1
6	360	8	7.8	146	2	.79	64	7	1.2
7	341	8	7.4	146	3	1.2	62	6	1.0
8	325	8	7.0	141	3	1.1	61	6	.99
9	311	8	6.7	136	3	1.1	59	7	1.1
10	299	8	6.5	132	3	1.1	58	8	1.3
11	289	7	5.5	127	3	1.0	56	9	1.4
12	279	6	4.5	124	3	1.0	54	9	1.3
13	267	5	3.6	118	2	.64	51	9	1.2
14	256	4	2.8	115	2	.62	50	9	1.2
15	249	4	2.7	113	2	.61	48	8	1.0
16	245	5	3.3	110	2	.59	46	8	.99
17	241	5	3.3	108	2	.58	44	9	1.1
18	230	6	3.7	105	3	.85	43	7	.81
19	222	6	3.6	103	3	.83	41	4	.44
20	214	6	3.5	100	2	.54	39	4	.42
21	208	6	3.4	97	2	.52	38	4	.41
22	202	5	2.7	95	2	.51	37	4	.40
23	207	7	3.9	93	2	.50	35	6	.57
24	196	7	3.7	90	2	.49	33	8	.71
25	189	6	3.1	88	2	.48	32	6	.52
26	203	9	4.9	86	2	.46	39	5	.53
27	197	13	6.9	84	2	.45	61	5	.82
28	178	12	5.8	82	2	.44	54	8	1.2
29	170	12	5.5	80	2	.43	50	7	.94
30	164	9	4.0	78	2	.42	48	6	.78
31	---	---	---	76	3	.62	---	---	---
TOTAL	8278	---	230.0	3537	---	22.83	1549	---	26.44
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	27	6	.44	17	8	.37	21	14	.79
2	27	5	.36	16	11	.48	21	7	.40
3	28	5	.38	16	11	.48	21	6	.34
4	26	5	.35	16	11	.48	21	6	.34
5	24	5	.32	16	11	.48	19	6	.31
6	23	5	.31	15	12	.49	18	6	.29
7	23	5	.31	15	12	.49	17	7	.32
8	23	5	.31	15	12	.49	17	7	.32
9	22	5	.30	15	11	.45	17	7	.32
10	21	12	.68	15	9	.36	16	6	.26
11	21	19	1.1	19	9	.46	16	6	.26
12	20	19	1.0	22	9	.53	16	6	.26
13	20	19	1.0	21	10	.57	15	7	.28
14	19	17	.87	22	11	.65	14	9	.34
15	20	15	.81	22	12	.71	14	9	.34
16	19	13	.67	21	9	.51	14	8	.30
17	19	13	.67	21	4	.23	13	8	.28
18	20	12	.65	21	8	.45	13	8	.28
19	20	9	.49	21	8	.45	13	7	.25
20	20	6	.32	21	6	.34	13	7	.25
21	21	6	.34	21	6	.34	14	13	.49
22	29	6	.47	21	8	.45	14	11	.42
23	26	6	.42	21	8	.45	14	8	.30
24	23	9	.56	21	7	.40	13	4	.14
25	22	12	.71	21	5	.28	13	4	.14
26	21	12	.68	21	7	.40	14	4	.15
27	21	11	.62	21	10	.57	15	4	.16
28	20	10	.54	21	12	.68	14	4	.15
29	19	8	.41	21	15	.85	13	4	.14
30	18	6	.29	21	16	.91	16	4	.17
31	17	7	.32	21	18	1.0	---	---	---
TOTAL	679	---	16.70	598	---	15.80	469	---	8.79
YEAR	59443.0		111837.6						

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- 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 14...	1230	--	623	353	594	12	15	19
FEB 22...	1755	10.0	1220	2190	7210	7	9	13
23...	1430	11.0	980	217	574	--	--	--
APR 03...	1230	10.0	436	21	25	--	--	--

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 14...	25	29	33	39	56	84	99	100
FEB 22...	19	26	34	49	78	99	100	--
23...	--	--	26	33	43	68	96	100
APR 03...	--	--	49	55	64	82	98	100

SALINAS RIVER BASIN

11152000 ARROYO SECO NEAR SOLEDAD, CA

LOCATION.--Lat 36°16'50", long 121°19'20", in SW¼NE¼ sec.16, T.19 S., R.6 E., Monterey County, Hydrologic Unit 18060005, on right bank just downstream from bridge, 1.5 mi (2.4 km) downstream from Vaquero Creek, and 10 mi (16 km) south of Soledad.

DRAINAGE AREA.--244 mi² (632 km²).

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

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 342.20 ft (104.303 m) Corps of Engineers datum. Prior to June 16, 1929, nonrecording gage, and June 16, 1929, to Dec. 2, 1941, water-stage recorder at site 1 mi (1.6 km) upstream at different datum. Dec. 3, 1941, to Sept. 30, 1959, water-stage recorder at datum 2.00 ft (0.610 m) higher. Jan. 30 to Mar. 26, 1969, nonrecording gage at bridge at same datum.

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

AVERAGE DISCHARGE.--78 years, 162 ft³/s (4.588 m³/s), 117,400 acre-ft/yr (145 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft³/s (801 m³/s) Apr. 3, 1958, gage height, 16.40 ft (4.999 m), present datum, from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of slope-area measurement at gage height 16.30 ft (4.968 m); no flow at times during several years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,510 ft³/s (71.1 m³/s) Feb. 13 (2115 hrs), gage height, 7.31 ft (2.228 m), no other peak above base of 2,500 ft³/s (71 m³/s); minimum daily, 13 ft³/s (0.368 m³/s) Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	29	65	49	220	600	619	186	103	52	19	21
2	25	29	67	47	198	527	614	185	98	52	19	21
3	27	30	59	51	160	521	606	180	95	51	18	27
4	29	32	56	50	148	505	572	173	92	50	18	23
5	27	30	57	71	175	476	529	172	90	49	18	22
6	30	31	51	90	207	436	487	177	86	49	20	16
7	30	31	54	81	213	396	439	172	84	48	20	17
8	30	29	50	322	172	372	404	168	80	47	21	17
9	34	29	55	442	159	356	376	164	78	45	20	17
10	34	30	55	246	155	344	355	158	76	42	19	17
11	30	46	58	227	147	332	338	151	75	41	19	17
12	32	59	60	312	138	324	325	145	72	38	20	15
13	33	76	57	256	648	316	312	140	69	38	21	15
14	29	76	57	476	1210	305	298	137	70	36	22	15
15	29	60	58	888	723	311	289	136	70	36	22	15
16	31	59	57	481	647	336	280	137	69	36	22	14
17	35	56	68	404	579	354	277	133	68	35	23	14
18	36	55	133	397	562	317	262	131	65	33	21	13
19	38	55	178	386	564	312	252	133	56	32	20	15
20	40	122	128	428	680	301	246	131	54	31	20	14
21	40	639	104	418	1010	297	239	129	55	31	20	14
22	42	360	97	349	928	290	233	130	54	36	21	15
23	40	181	92	281	831	285	238	127	53	31	23	16
24	32	110	85	218	724	277	229	125	53	28	22	15
25	31	93	78	192	653	272	219	122	52	27	21	15
26	29	84	76	156	656	282	230	117	52	26	20	15
27	29	74	70	131	613	829	238	115	52	24	19	15
28	31	64	69	123	592	978	208	117	52	23	19	16
29	30	61	70	102	---	872	195	115	52	22	19	15
30	32	59	67	189	---	727	186	110	52	19	19	16
31	31	---	58	305	---	661	---	108	---	19	20	---
TOTAL	991	2689	2289	8168	13712	13511	10095	4424	2077	1127	625	497
MEAN	32.0	89.6	73.8	263	490	436	337	143	69.2	36.4	20.2	16.6
MAX	42	639	178	888	1210	978	619	186	103	52	23	27
MIN	25	29	50	47	138	272	186	108	52	19	18	13
AC-FT	1970	5330	4540	16200	27200	26800	20020	8780	4120	2240	1240	986
CAL YR 1978 TOTAL	124454			MEAN 341	MAX 4860	MIN 24	AC-FT 246900					
WTR YR 1979 TOTAL	60205			MEAN 165	MAX 1210	MIN 13	AC-FT 119400					

SALINAS RIVER BASIN

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 (3 km) southwest of Chualar.

DRAINAGE AREA.--4,042 mi² (10,469 km²).

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 (20.726 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair, except those for periods of no gage-height record, May 15 to June 13 and June 26 to July 7, which are poor. Daily discharge prior to January 1979 determined by discharge measurements at this site correlated to streamflow for Salinas River at Soledad (station 11151700) and Salinas River near Spreckels (station 11152500). Flow 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 37,000 ft³/s (1,050 m³/s) Feb. 11, 1978; no flow many days in 1977-78.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,780 ft³/s (107 m³/s) Feb. 25, gage height, 7.82 ft (2.384 m); no flow Oct. 14-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	33	24	68	210	2270	1420	51	29	29	35	53
2	70	32	28	66	220	2240	1200	43	29	27	30	56
3	50	32	32	65	231	2110	994	36	28	25	30	64
4	30	32	35	64	272	1650	857	30	26	26	30	76
5	22	32	40	64	264	1050	750	22	26	28	30	84
6	15	31	35	66	255	865	644	20	34	27	30	82
7	10	30	40	67	251	746	574	20	45	28	30	76
8	7.0	29	46	79	239	672	527	23	52	32	30	71
9	5.0	29	52	221	211	614	474	17	47	61	33	69
10	3.1	30	59	130	191	566	435	16	50	72	41	71
11	2.1	30	61	100	183	519	402	16	49	75	47	77
12	1.5	30	58	94	169	475	384	15	51	75	53	69
13	1.0	30	69	86	174	415	366	14	52	74	62	57
14	0	30	79	90	1780	381	343	13	53	71	69	49
15	0	29	83	937	1430	341	312	13	63	65	70	40
16	0	29	84	1180	949	338	310	11	58	53	66	32
17	29	29	80	599	988	340	293	14	49	39	51	31
18	24	30	84	412	788	326	254	8.9	50	30	43	30
19	21	32	77	321	694	312	223	13	53	30	38	29
20	20	35	71	250	642	304	198	26	47	30	35	28
21	19	45	65	205	1150	279	173	34	42	32	35	27
22	19	59	59	176	1790	268	155	41	40	30	33	34
23	18	40	53	153	2500	243	138	42	36	30	27	45
24	18	24	48	139	2990	232	123	33	30	30	25	55
25	18	21	55	132	3010	200	108	27	25	40	26	60
26	30	19	64	124	2760	188	94	27	26	52	28	60
27	49	17	70	114	2580	524	87	27	28	54	37	59
28	46	17	75	110	2350	1440	80	28	29	56	43	57
29	40	19	79	107	---	1820	72	29	31	55	54	44
30	33	21	76	117	---	1370	60	29	31	48	58	31
31	32	---	70	161	---	1690	---	29	---	38	52	---
TOTAL	747.7	896	1851	6497	29271	24788	12050	767.9	1209	1362	1271	1616
MEAN	24.1	29.9	59.7	210	1045	800	402	24.8	40.3	43.9	41.0	53.9
MAX	115	59	84	1180	3010	2270	1420	51	63	75	70	84
MIN	0	17	24	64	169	188	60	8.9	25	25	25	27
AC-FT	1480	1780	3670	12890	58060	49170	23900	1520	2400	2700	2520	3210

CAL YR 1978 TOTAL 400451.7 MEAN 1097 MAX 37000 MIN 0 AC-FT 794300
WTR YR 1979 TOTAL 82326.6 MEAN 226 MAX 3010 MIN 0 AC-FT 163300

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 to current year.
 SPECIFIC CONDUCTANCE: Water years 1977 to current year.
 WATER TEMPERATURE: Water years 1977 to current year.
 SEDIMENT RECORDS: Water years 1977 to current year.

PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: January 1977 to current year.
 WATER TEMPERATURES: January 1977 to current year.

INSTRUMENTATION.--Water-quality monitor since January 1977.

REMARKS.--Difference between recorder values before adjustment and field measurement values exceeded ± 10 percent micromhos for specific conductance and $\pm 1.0^{\circ}\text{C}$ for water temperature at times during the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,940 micromhos Mar. 26, 1979; minimum recorded, 165 micromhos July 7, 1978.
 WATER TEMPERATURES: Maximum recorded, 30.0°C May 18, 1978; minimum recorded, 3.0°C Dec. 20-23, 1978, Jan. 2, 1979.

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,940 micromhos Mar. 26; minimum recorded, 317 micromhos Sept. 22.
 WATER TEMPERATURES: Maximum recorded, 29.5°C Sept. 11; minimum recorded, 3.0°C Dec. 20-23, Jan. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE, WATER ($^{\circ}\text{C}$)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, UM-MF (COLS./100 ML)	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CaCO_3)	HARDNESS, NONCARBONATE (MG/L AS CaCO_3)	CALCIUM DISSOLVED (MG/L AS Ca)
OCT 17...	1100	29	423	8.2	15.0	6.8	10.0	120	110	180	50	44
NOV 13...	1430	29	476	7.8	12.0	2.5	12.5	K20	K9	200	64	47
DEC 18...	1200	84	586	8.2	9.5	30	11.7	K11	96	210	57	50
JAN 15...	1530	2120	219	7.8	11.0	830	9.9	1600	1500	88	32	21
FEB 12...	1300	165	893	7.8	14.0	170	10.3	K120	150	300	120	72
MAR 12...	1315	473	690	7.8	16.5	3.5	10.0	K22	K29	270	110	68
APR 17...	1300	311	768	8.4	18.0	26	9.7	K23	K17	270	97	64
MAY 15...	1230	12	1040	8.3	17.0	2.4	10.7	120	K14	410	220	99
JUN 19...	1330	55	472	8.3	24.0	34	9.3	>600	70	210	70	51
JUL 10...	1300	75	400	8.4	26.0	100	8.9	210	490	170	48	41
AUG 20...	1300	34	396	7.8	21.5	52	9.5	--	K70	160	48	37
SEP 10...	1100	73	372	7.9	20.0	62	9.6	K60	80	160	37	38

DATE	MAGNESIUM, DISSOLVED (MG/L AS Mg)	SODIUM, DISSOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO_3)	SULFATE, DISSOLVED (MG/L AS SO_4)	CHLORIDE, DISSOLVED (MG/L AS Cl)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SiO_2)	SOLIDS, RESIDUE AT 180 $^{\circ}\text{C}$ DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
OCT 17...	17	24	22	.8	2.3	130	74	19	.3	16	274	275
NOV 13...	21	32	25	1.0	2.0	140	93	32	.2	16	325	327
DEC 18...	20	35	27	1.1	3.0	150	100	29	.2	17	385	344
JAN 15...	8.6	12	22	.6	1.7	83	36	6.4	.1	11	146	131
FEB 12...	30	64	31	1.6	3.0	180	170	52	.2	21	549	520
MAR 12...	24	40	24	1.1	2.5	160	130	32	.3	21	427	414
APR 17...	26	48	28	1.3	3.2	170	160	39	.3	24	481	467
MAY 15...	39	70	27	1.5	4.4	190	240	68	.2	20	704	655
JUN 19...	20	29	23	.9	2.2	140	91	20	.2	15	326	313
JUL 10...	16	20	20	.7	2.1	120	74	15	.2	17	259	258
AUG 20...	16	20	21	.7	1.9	110	68	15	.2	6.2	263	230
SEP 10...	15	20	22	.7	1.8	120	62	13	.2	17	237	240

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

SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+N03 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	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)
OCT 17...	.37	21.5	.16	--	.02	.40	.42	.19	.58	.07	.02
NOV 13...	.44	25.7	.04	--	.01	.57	.58	.21	.62	.05	.02
DEC 18...	.52	87.3	.73	--	.00	.42	.42	.28	1.2	.13	.06
JAN 15...	.20	369	.51	--	.07	4.7	4.8	.26	5.3	1.8	.08
FEB 12...	.75	245	1.7	--	.02	.65	.67	.34	2.4	.23	.13
MAR 12...	.58	545	1.3	--	.01	.24	.25	.28	1.6	.15	.07
APR 17...	.65	404	1.5	--	.01	.32	.33	.13	1.8	.12	.07
MAY 15...	.96	24.0	3.4	--	.01	--	--	.59	--	.02	.01
JUN 19...	.44	48.4	.34	--	.03	.50	.53	.21	.87	.09	.02
JUL 10...	.35	52.5	.57	--	.06	.94	1.0	.26	1.6	.41	.05
AUG 20...	.36	24.1	.17	--	.02	1.4	1.4	.80	1.6	.16	.04
SEP 10...	.32	46.7	.16	.16	.02	.64	.66	.29	.82	.21	.05

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	HARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CAUMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)
OCT 17...	1100	2	2	100	0	0	0	0	0
JAN 15...	1530	8	1	100	100	3	0	30	10
APR 17...	1300	2	2	100	60	0	<1	20	10
JUL 10...	1300	5	2	100	50	1	<1	30	10

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
OCT 17...	0	0	5	4	670	20	1	0	30
JAN 15...	27	1	80	75	73000	70	36	2	1900
APR 17...	0	<3	10	2	2500	<0	46	0	50
JUL 10...	1	<3	27	2	8800	10	8	0	160

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 17...	0	.0	.0	1	0	0	0	20	10
JAN 15...	10	.3	.0	1	1	1	0	300	20
APR 17...	2	.0	.0	2	1	0	0	30	<3
JUL 10...	<1	.1	.0	1	0	0	0	50	<3

SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT												
17...	1100	--	3.3	.6	--	--	--	--	--	--	--	--
NOV												
13...	1430	1.3	--	--	ND	ND	ND	ND	ND	ND	ND	--
DEC												
18...	1200	3.1	--	--	--	--	--	--	--	--	--	--
JAN												
15...	1530	--	5.3	32	--	--	--	--	--	--	--	--
FEB												
12...	1300	5.2	--	--	ND	--	ND	--	ND	--	ND	--
MAR												
12...	1315	2.3	--	--	--	--	--	--	--	--	--	--
APR												
17...	1300	--	6.7	--	--	--	--	--	--	--	--	--
MAY												
15...	1230	32	--	--	ND	ND	ND	ND	ND	ND	ND	ND
JUN												
19...	1330	9.9	--	--	--	--	--	--	--	--	--	--
JUL												
10...	1300	--	2.6	.9	--	--	--	--	--	--	--	--
AUG												
20...	1300	6.3	--	--	ND	--	ND	--	ND	--	ND	--
SEP												
10...	1100	9.4	--	--	--	--	--	--	--	--	--	--

DATE	P,P' DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT											
17...	--	--	--	--	--	--	--	--	--	--	--
NOV											
13...	.3	ND	.6	ND	.7	ND	ND	ND	ND	ND	ND
DEC											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN											
15...	--	--	--	--	--	--	--	--	--	--	--
FEB											
12...	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAR											
12...	--	--	--	--	--	--	--	--	--	--	--
APR											
17...	--	--	--	--	--	--	--	--	--	--	--
MAY											
15...	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN											
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG											
20...	--	ND	--	ND	--	ND	--	ND	--	ND	--
SEP											
10...	--	--	--	--	--	--	--	--	--	--	--

ND Material specifically analyzed for but not detected.

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATERIAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATERIAL (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)
OCT 17...	--	--	--	--	--	--	--	--	--	--	--
NOV 13...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC 18...	--	--	--	--	--	--	--	--	--	--	--
JAN 15...	--	--	--	--	--	--	--	--	--	--	--
FEB 12...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
MAR 12...	--	--	--	--	--	--	--	--	--	--	--
APR 17...	--	--	--	--	--	--	--	--	--	--	--
MAY 15...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN 19...	--	--	--	--	--	--	--	--	--	--	--
JUL 10...	--	--	--	--	--	--	--	--	--	--	--
AUG 20...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
SEP 10...	--	--	--	--	--	--	--	--	--	--	--

DATE	METH- OXY- CHLOR, TOT. IN BOTTOM MATERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 17...	--	--	--	--	--	--	--	--	--	--	--
NOV 13...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC 18...	--	--	--	--	--	--	--	--	--	--	--
JAN 15...	--	--	--	--	--	--	--	--	--	--	--
FEB 12...	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAR 12...	--	--	--	--	--	--	--	--	--	--	--
APR 17...	--	--	--	--	--	--	--	--	--	--	--
MAY 15...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN 19...	--	--	--	--	--	--	--	--	--	--	--
JUL 10...	--	--	--	--	--	--	--	--	--	--	--
AUG 20...	--	ND	--	ND	--	ND	--	ND	--	ND	--
SEP 10...	--	--	--	--	--	--	--	--	--	--	--

ND Material specifically analyzed for but not detected.

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	NOV 13,78 1400	MAR 12,79 1315	MAY 15,79 1230	JUN 19,79 1330	AUG 20,79 1300	SEP 10,79 1100				
TOTAL CELLS/ML	6000	980	1700	16000	5900	17000				
DIVERSITY: DIVISION	0.2	0.6	1.2	1.1	0.7	0.6				
..CLASS	0.2	0.6	1.2	1.1	0.7	0.6				
...ORDER	0.3	1.5	1.7	1.8	0.8	1.5				
...FAMILY	1.8	2.0	2.3	2.6	1.2	2.3				
...GENUS	0.0	0.0	0.0	2.9	1.2	2.4				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...HYDRODICTYACEAE										
...PEDIASTRUM	--	--	--	--	2400#	15	--	--	--	--
...OOCYSTACEAE										
...ANKISTRODESMUS	--	--	--	72	4	250	2	39	1	* 0
...SELENASTRUM	58	1	--	--	--	--	--	--	--	--
...TETRAEDRON	--	--	--	--	* 0	--	--	--	--	--
...SCENEDESMACEAE										
...CRUCIGENIA	--	--	--	--	610	4	--	--	--	--
...SCENEDESMUS	--	--	--	14	1	5400#	33	390	7	1100
...VOLVOCELES										
...CHLAMYDOMONADACEAE	58	1	29	3	350#	20	--	--	--	--
...CARTERIA	58	1	--	--	--	--	--	--	--	--
...CHLAMYDOMONAS	--	--	--	--	87	5	710	4	--	--
...CHLOROGONIUM	--	--	--	--	43	2	--	--	--	--
...VOLVOCEACEAE										
...PANDORINA	--	--	--	--	370#	21	810	5	--	--
CHRYSOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
...COSCINODISCAEAE										
...CYCLOTELLA	58	1	400#	41	490#	28	3600#	23	78	1
...MELOSIRA	--	--	--	--	87	5	100	1	78	1
...PENNALES										
...ACHNANTHACEAE										
...COCCONEIS	120	2	--	--	--	--	* 0	--	--	290
...RHOICOSPHENIA	--	--	--	--	--	--	--	--	--	97
...CYMBELLACEAE										
...CYMBELLA	--	--	--	--	--	--	100	1	--	150
...DIATOMACEAE										
...DIATOMA	--	--	--	--	--	--	--	--	--	680
...FRAGILARIACEAE										
...FRAGILARIA	--	--	350#	35	--	--	--	4700#	80	4800#
...SYNEDRA	3000#	50	--	--	--	--	--	--	--	97
...GOMPHONEMATAEAE										
...GOMPHONEHA	58	1	--	--	--	--	150	1	--	* 0
...NAVICULACEAE										
...ENTOMONEIS	58	1	--	--	--	--	--	--	--	--
...NAVICULA	700	12	14	1	43	2	760	5	--	920
...PINNULARIA	--	--	--	--	100	6	--	--	--	--
...NITZSCHIACEAE										
...NITZSCHIA	1800#	30	130	13	29	2	560	3	310	5
920	5									
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
...CRYPTOMONADACEAE										
...CRYPTOMONAS	--	--	14	1	--	--	--	--	--	--
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
...CHROOCOCCACEAE										
...ANACYSTIS	--	--	--	--	58	3	--	--	--	--
...HORMOGONALES										
...NOSTOCACEAE										
...ANABAENA	--	--	--	--	--	--	510	3	--	--
...OSCILLATORIACEAE										
...OSCILLATORIA	--	--	--	--	--	--	--	--	310	5
...SCHIZOTHRIX	--	--	--	--	--	--	--	--	--	580
920	3									
EUGLENOPHYTA (EUGLENOIDS)										
..EUGLENOPHYCEAE										
...EUGLENALES										
...EUGLENACEAE										
...TRACHELONAS	--	--	43	4	--	--	--	--	--	--

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

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

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PERIPHYTON

DATE	TIME	LENGTH OF EXPOSURE (DAYS)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PEKI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
NOV 13...	1430	27	7.56	6.14	16.7	.690	--
APR 17...	1300	36	.920	.620	.420	.000	714
JUL 10...	1300	21	58.7	54.0	46.4	14.0	101

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	369	335	351	620	523	582	656	628	612	733	699	728
2	387	360	373	645	551	582	659	625	644	735	728	731
3	394	376	387	617	558	591	645	624	634	734	704	719
4	396	379	388	653	561	597	651	642	647	731	722	726
5	397	382	391	679	618	659	667	639	607	719	674	708
6	446	397	413	---	---	---	---	---	---	711	699	704
7	466	436	447	---	---	---	---	---	---	698	674	684
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	604	337	484
11	---	---	---	---	---	---	630	621	626	916	611	753
12	---	---	---	---	---	---	622	613	616	771	693	724
13	---	---	---	---	---	---	614	611	613	686	622	647
14	---	---	---	---	---	---	611	608	609	---	---	---
15	---	---	---	---	---	---	610	592	606	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	484	421	459	---	---	---	---	---	---	---	---	---
18	476	458	467	---	---	---	694	536	631	---	---	---
19	472	428	448	---	---	---	756	689	727	---	---	---
20	464	431	453	---	---	---	779	753	765	---	---	---
21	462	417	457	---	---	---	803	756	781	---	---	---
22	470	463	467	541	399	464	827	800	812	---	---	---
23	479	468	473	862	542	603	836	822	829	---	---	---
24	489	473	480	928	816	861	828	760	778	---	---	---
25	485	481	483	823	756	801	754	746	750	---	---	---
26	504	485	492	747	682	703	747	737	741	---	---	---
27	530	497	510	677	665	672	738	726	730	---	---	---
28	586	539	566	678	669	674	727	715	720	---	---	---
29	597	554	580	673	663	668	730	718	723	---	---	---
30	623	576	594	664	637	652	729	719	726	---	---	---
31	632	577	617	---	---	---	732	722	726	---	---	---
MONTH	632	335	468	928	399	651	836	536	694	916	337	692

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25.5	18.5	17.5	11.0	14.5	9.5	---	---	---	---	---	---
2	25.0	17.0	17.0	8.5	12.5	7.0	7.5	3.0	---	---	---	---
3	25.0	18.0	17.5	8.0	11.5	5.5	9.0	4.0	---	---	---	---
4	24.5	17.5	17.5	9.0	12.0	5.0	10.0	5.0	---	---	---	---
5	23.5	17.5	20.0	12.5	11.0	4.5	11.5	8.0	---	---	---	---
6	24.0	17.0	20.0	9.0	---	---	12.0	8.0	---	---	---	---
7	24.5	14.5	20.5	10.0	---	---	12.0	9.0	---	---	---	---
8	---	---	---	---	---	---	11.5	10.0	---	---	---	---
9	---	---	18.0	10.5	---	---	13.0	9.0	---	---	---	---
10	---	---	15.5	8.5	---	---	15.0	10.5	---	---	---	---
11	---	---	11.5	8.0	10.0	3.5	14.5	13.0	---	---	---	---
12	---	---	12.0	4.5	11.5	5.0	15.0	11.0	---	---	---	---
13	---	---	---	---	11.0	5.5	11.0	8.5	---	---	---	---
14	---	---	---	---	9.0	5.0	12.5	8.5	---	---	18.0	16.5
15	---	---	---	---	10.0	3.5	11.0	9.0	---	---	16.5	14.0
16	---	---	---	---	9.5	4.5	---	---	---	---	14.5	13.0
17	23.0	14.0	---	---	11.5	8.0	---	---	---	---	18.5	13.5
18	20.5	15.5	---	---	10.5	7.5	---	---	---	---	16.5	14.0
19	18.5	15.5	---	---	11.0	6.0	---	---	---	---	16.5	13.5
20	17.5	14.0	---	---	9.5	3.0	---	---	---	---	18.5	14.0
21	18.0	11.5	---	---	8.5	3.0	---	---	---	---	17.5	14.5
22	20.5	13.0	13.0	10.5	10.0	3.0	---	---	---	---	17.0	14.5
23	21.0	12.0	14.5	8.5	10.0	3.0	---	---	---	---	18.5	13.5
24	20.0	12.5	13.0	7.5	10.5	3.5	---	---	---	---	20.0	14.0
25	21.0	15.5	12.5	7.5	11.0	3.5	---	---	---	---	20.0	15.0
26	19.0	12.5	12.5	7.0	10.5	4.0	---	---	---	---	16.5	14.0
27	20.0	14.0	12.0	7.0	11.5	7.5	---	---	---	---	18.0	13.5
28	19.5	14.0	12.5	6.0	11.0	7.5	---	---	---	---	16.0	13.5
29	19.5	12.0	14.5	8.0	12.5	7.0	---	---	---	---	14.0	13.5
30	17.5	9.5	15.0	11.5	9.0	3.5	---	---	---	---	14.0	13.5
31	17.0	8.0	---	---	---	---	---	---	---	---	14.5	14.0
MONTH	25.5	8.0	20.5	4.5	14.5	3.0	15.0	3.0	---	---	20.0	13.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1									29.0	18.0	27.5	16.0
2									27.0	17.5	29.0	19.5
3									26.5	16.5	27.5	18.0
4									27.0	16.5	26.0	18.0
5									27.5	14.5	27.0	16.0
6									27.0	15.0	---	---
7									26.5	16.0	---	---
8									26.0	16.0	---	---
9									26.0	15.5	---	---
10									24.5	16.5	---	---
11									24.5	16.0	29.5	17.0
12									23.5	14.5	28.0	17.5
13									24.0	15.5	27.0	18.5
14									25.0	15.5	27.0	17.5
15									24.5	16.5	---	---
16									25.0	16.0	---	---
17									25.0	16.0	---	---
18									---	---	---	---
19									---	---	---	---
20									---	---	---	---
21									---	---	---	---
22									---	---	---	---
23									---	---	23.5	16.5
24									27.0	16.5	25.0	16.0
25									27.0	16.5	25.5	16.5
26									25.5	15.5	25.0	15.0
27									27.0	15.0	24.5	15.0
28									27.0	16.5	24.0	16.0
29									27.5	16.5	24.5	16.5
30									26.0	18.5	24.5	17.0
31									26.5	18.0	25.5	16.0
MONTH									27.5	16.0	---	---
YEAR	29.5	3.0							29.0	14.5	29.5	15.0

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 (1.3 km) upstream from El Toro Creek, 1.6 mi (2.6 km) northwest of Spreckels, and 2 mi (3 km) south of Salinas.

DRAINAGE AREA.--4,156 mi² (10,764 km²).

WATER-DISCHARGE RECORDS

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 (6.267 m) National Geodetic Vertical Datum of 1929. 1900-1901, May 10 to July 29, 1940, nonrecording gages at site 0.3 mi (0.5 km) downstream at different datum. July 29, 1940, to May 22, 1969, water-stage recorder at site 0.3 mi (0.5 km) downstream at datum 0.69 ft (0.210 m) lower. May 23, 1969, to Jan. 13, 1970, nonrecording gage at same site and datum. Mar. 17, 1941, to June 30, 1961, supplementary nonrecording gages. July 1, 1961, to May 22, 1969, auxiliary water-stage recorder at site 0.3 mi (0.5 km) downstream at datum 0.69 ft (0.210 m) lower.

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 (384 km²) above station. Low flow represents waste water from Spreckels sugar refinery and Alisal sewage disposal plant.

AVERAGE DISCHARGE.--50 years (water years 1930-79), 407 ft³/s (11.53 m³/s), 294,900 acre-ft/yr (364 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,100 ft³/s (2,350 m³/s) Feb. 26, 1969, gage height, 26.51 ft (8.080 m), site and datum then in use; maximum gage height, 26.85 ft (8.184 m) Jan. 16, 1952, site and datum then in use, from floodmarks; no flow at times in 1929-40.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,310 ft³/s (93.7 m³/s) Feb. 24, gage height, 8.82 ft (2.688 m); minimum daily, 0.64 ft³/s (0.018 m³/s) Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	1.1	23	21	13	2610	1590	4.1	1.5	1.5	1.1	1.2
2	26	1.1	27	22	46	2460	1250	2.7	1.5	1.5	1.1	1.1
3	19	1.1	28	24	29	2370	1010	2.1	1.4	1.3	1.1	1.2
4	13	1.1	31	26	63	1860	817	1.7	1.3	1.3	1.2	1.2
5	10	1.1	34	28	78	1000	683	1.2	1.3	1.3	1.2	1.2
6	8.2	.99	28	29	69	734	575	.99	1.7	1.2	1.2	1.2
7	6.9	1.0	31	31	59	604	484	.87	2.2	1.3	.82	1.2
8	6.3	.96	34	45	53	522	425	.86	2.5	1.3	.67	1.3
9	5.3	.96	38	65	37	450	374	.82	2.1	1.3	.64	1.3
10	4.6	1.0	42	194	24	392	325	.78	2.3	1.2	.66	1.3
11	4.0	1.0	39	68	18	344	288	.71	2.2	1.2	.65	1.3
12	3.7	1.1	41	70	14	306	251	.71	2.2	1.2	.69	1.3
13	3.2	.99	48	53	16	279	225	.98	2.1	1.2	.71	1.4
14	2.8	.95	50	82	1250	238	193	1.3	2.3	1.2	.74	1.5
15	2.7	.93	50	354	1880	210	163	1.1	2.0	1.3	.84	1.6
16	2.4	.96	48	1450	946	210	146	1.4	2.0	1.3	.81	1.6
17	2.2	.97	53	591	844	217	132	1.3	1.9	1.2	.76	1.5
18	1.8	1.0	53	311	646	226	109	.88	2.2	1.1	.82	1.6
19	1.7	.97	46	175	515	210	85	1.0	1.9	1.1	.79	1.8
20	1.4	1.0	31	81	449	204	65	1.2	1.8	1.1	.88	1.8
21	1.4	1.3	23	35	765	186	52	1.6	1.6	1.2	.85	1.8
22	1.3	.48	17	19	1990	168	38	1.9	1.6	1.1	.82	1.9
23	1.3	.54	15	13	2480	157	31	1.9	1.6	1.2	.83	1.8
24	1.2	.26	15	9.0	3190	132	25	1.8	1.5	1.2	.89	1.9
25	1.2	.24	17	7.5	3120	108	19	1.7	1.4	1.1	.99	1.8
26	1.2	.21	20	6.5	2930	95	15	1.7	1.5	1.1	.99	1.8
27	1.7	.19	23	5.7	2780	142	11	1.6	1.6	1.1	.99	1.8
28	1.5	.18	26	5.0	2670	1170	10	1.6	1.6	1.1	.99	1.8
29	1.2	.20	27	4.5	---	1940	7.0	1.5	1.6	1.1	1.0	1.8
30	1.1	.22	26	5.2	---	1410	5.0	1.6	1.6	1.1	1.1	1.7
31	1.1	---	23	15	---	1860	---	1.6	---	1.1	1.1	---
TOTAL	183.4	273.58	1007	3845.4	26974	22814	9403.0	45.20	54.0	37.5	27.93	45.7
MEAN	5.92	9.12	32.5	124	963	736	313	1.46	1.80	1.21	.90	1.52
MAX	.44	.54	.53	1450	3190	2610	1590	4.1	2.5	1.5	1.2	1.9
MIN	1.1	.93	15	4.5	13	95	5.0	.71	1.3	1.1	.64	1.1
AC-FT	364	543	2000	7630	53500	45250	18650	90	107	74	55	91
CAL YR 1978	TOTAL	501781.38	MEAN	1375	MAX	39600	MIN	.93	AC-FT	995300		
WTR YR 1979	TOTAL	64710.71	MEAN	177	MAX	3190	MIN	.64	AC-FT	128400		

SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-54, 1958 to September 1979 (discontinued).

CHEMICAL ANALYSES: Water years 1952-54, 1958-70, 1972-77. Published incorrectly as station 11152300 "near Chualar" in 1967.

BIOLOGICAL DATA: Water years 1975-77.

SPECIFIC CONDUCTANCE: Water years 1975 to January 1977.

WATER TEMPERATURES: Water years 1967 to September 1979 (discontinued). Published incorrectly as station 11152300 "near Chualar" in 1967-69.

SEDIMENT RECORDS: Water years 1950-51, 1967 to September 1979 (discontinued). Published incorrectly as station 11152300 "near Chualar" in 1967-69.

TURBIDITY: Water year 1973.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to January 1977.

WATER TEMPERATURES: December 1966 to September 1979.

SEDIMENT RECORDS: December 1966 to September 1979.

REMARKS.--Low flow represents waste water from Spreckels sugar refinery and Alisal sewage disposal plant.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 24,000 mg/L Mar. 5, 1978; minimum daily mean, no flow for several days in 1968.

SEDIMENT DISCHARGE: Maximum daily, 2,940,000 tons (2,667,000 metric tons) Feb. 11, 1978; minimum daily, 0 ton (0 metric ton) several days in 1968.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean 14,700 mg/L Jan. 16; minimum daily mean, 10 mg/L July 15-17.

SEDIMENT DISCHARGE: Maximum daily, 58,800 tons (53,300 metric tons) Jan. 16; minimum daily, 0.03 ton (0.03 metric ton) July 17-18.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	12.0	17.0	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	17.5	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	19.5	---	---	27.0	---
8	---	---	---	---	---	19.0	---	---	---	---	---	---
9	---	---	---	---	---	16.0	---	---	---	---	---	---
10	---	---	---	---	---	---	17.0	---	---	---	---	---
11	---	---	---	---	---	---	18.0	---	---	---	---	---
12	---	---	---	12.0	---	---	18.5	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	16.0	---	---	---	---	---	---
15	---	---	5.0	---	---	---	---	---	---	---	---	---
16	---	---	---	---	10.0	13.0	---	---	---	---	---	---
17	---	18.5	---	10.5	---	---	---	---	---	31.5	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	15.0	---	---	---	---	---	---
20	21.0	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	15.0	---	---	---	---	---	23.5
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	10.5	17.0	21.0	21.0	---	---	---	---
24	---	---	---	---	---	---	---	29.0	---	---	---	---
25	---	---	---	---	---	---	20.0	---	---	---	---	---
26	---	---	---	---	---	14.0	---	---	---	---	---	---
27	---	---	---	---	---	---	21.5	---	---	---	---	---
28	---	---	---	---	---	13.5	---	---	---	---	---	---
29	---	---	---	---	---	13.0	---	---	---	---	---	---
30	---	---	---	---	---	14.5	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	21.0	18.5	5.0	11.5	10.5	15.0	19.0	23.0		31.5	27.0	23.5
WTR YR 1979	MEAN	17.0		MAX	31.5		MIN	5.0				

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 (1.3 km) upstream from El Toro Creek, 1.6 mi (2.6 km) northwest of Spreckels, and 2 mi (3 km) south of Salinas.

DRAINAGE AREA.--4,156 mi² (10,764 km²).

WATER-DISCHARGE RECORDS

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 (6.267 m) National Geodetic Vertical Datum of 1929. 1900-1901, May 10 to July 29, 1940, nonrecording gages at site 0.3 mi (0.5 km) downstream at different datum. July 29, 1940, to May 22, 1969, water-stage recorder at site 0.3 mi (0.5 km) downstream at datum 0.69 ft (0.210 m) lower. May 23, 1969, to Jan. 13, 1970, nonrecording gage at same site and datum. Mar. 17, 1941, to June 30, 1961, supplementary nonrecording gages. July 1, 1961, to May 22, 1969, auxiliary water-stage recorder at site 0.3 mi (0.5 km) downstream at datum 0.69 ft (0.210 m) lower.

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 (384 km²) above station. Low flow represents waste water from Spreckels sugar refinery and Alisal sewage disposal plant.

AVERAGE DISCHARGE.--50 years (water years 1930-79), 407 ft³/s (11.53 m³/s), 294,900 acre-ft/yr (364 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,100 ft³/s (2,350 m³/s) Feb. 26, 1969, gage height, 26.51 ft (8.080 m), site and datum then in use; maximum gage height, 26.85 ft (8.184 m) Jan. 16, 1952, site and datum then in use, from floodmarks; no flow at times in 1929-40.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,310 ft³/s (93.7 m³/s) Feb. 24, gage height, 8.82 ft (2.688 m); minimum daily, 0.64 ft³/s (0.018 m³/s) Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	1.1	23	21	13	2610	1590	4.1	1.5	1.5	1.1	1.2
2	26	1.1	27	22	46	2460	1250	2.7	1.5	1.5	1.1	1.1
3	19	1.1	28	24	29	2370	1010	2.1	1.4	1.3	1.1	1.2
4	13	1.1	31	26	63	1860	817	1.7	1.3	1.3	1.2	1.2
5	10	1.1	34	28	78	1000	683	1.2	1.3	1.3	1.2	1.2
6	8.2	.99	28	29	69	734	575	.99	1.7	1.2	1.2	1.2
7	6.9	1.0	31	31	59	604	484	.87	2.2	1.3	.82	1.2
8	6.3	.96	34	45	53	522	425	.86	2.5	1.3	.67	1.3
9	5.3	.96	38	65	37	450	374	.82	2.1	1.3	.64	1.3
10	4.6	1.0	42	194	24	392	325	.78	2.3	1.2	.66	1.3
11	4.0	1.0	39	68	18	344	288	.71	2.2	1.2	.65	1.3
12	3.7	1.1	41	70	14	306	251	.71	2.2	1.2	.69	1.3
13	3.2	.99	48	53	16	279	225	.98	2.1	1.2	.71	1.4
14	2.8	.95	50	82	1250	238	193	1.3	2.3	1.2	.74	1.5
15	2.7	.93	50	354	1880	210	163	1.1	2.0	1.3	.84	1.6
16	2.4	.96	48	1450	946	210	146	1.4	2.0	1.3	.81	1.6
17	2.2	.97	53	591	844	217	132	1.3	1.9	1.2	.76	1.5
18	1.8	1.0	53	311	646	226	109	.88	2.2	1.1	.82	1.6
19	1.7	.97	46	175	515	210	85	1.0	1.9	1.1	.79	1.8
20	1.4	1.0	31	81	449	204	65	1.2	1.8	1.1	.88	1.8
21	1.4	1.3	23	35	765	186	52	1.6	1.6	1.2	.85	1.8
22	1.3	.48	17	19	1990	168	38	1.9	1.6	1.1	.82	1.9
23	1.3	.54	15	13	2480	157	31	1.9	1.6	1.2	.83	1.8
24	1.2	.26	15	9.0	3190	132	25	1.8	1.5	1.2	.89	1.9
25	1.2	.24	17	7.5	3120	108	19	1.7	1.4	1.1	.99	1.8
26	1.2	.21	20	6.5	2930	95	15	1.7	1.5	1.1	.99	1.8
27	1.7	.19	23	5.7	2780	142	11	1.6	1.6	1.1	.99	1.8
28	1.5	.18	26	5.0	2670	1170	10	1.6	1.6	1.1	.99	1.8
29	1.2	.20	27	4.5	---	1940	7.0	1.5	1.6	1.1	1.0	1.8
30	1.1	.22	26	5.2	---	1410	5.0	1.6	1.6	1.1	1.1	1.7
31	1.1	---	23	15	---	1860	---	1.6	---	1.1	1.1	---
TOTAL	183.4	273.58	1007	3845.4	26974	22814	9403.0	45.20	54.0	37.5	27.93	45.7
MEAN	5.92	9.12	32.5	124	963	736	313	1.46	1.80	1.21	.90	1.52
MAX	44	54	53	1450	3190	2610	1590	4.1	2.5	1.5	1.2	1.9
MIN	1.1	.93	15	4.5	13	95	5.0	.71	1.3	1.1	.64	1.1
AC-FT	364	543	2000	7630	53500	45250	18650	90	107	74	55	91
CAL YR 1978	TOTAL	501781.38	MEAN	1375	MAX	39600	MIN	.93	AC-FT	995300		
WTR YR 1979	TOTAL	64710.71	MEAN	177	MAX	3190	MIN	.64	AC-FT	128400		

SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-54, 1958 to September 1979 (discontinued).

CHEMICAL ANALYSES: Water years 1952-54, 1958-70, 1972-77. Published incorrectly as station 11152300 "near Chualar" in 1967.

BIOLOGICAL DATA: Water years 1975-77.

SPECIFIC CONDUCTANCE: Water years 1975 to January 1977.

WATER TEMPERATURES: Water years 1967 to September 1979 (discontinued). Published incorrectly as station

11152300 "near Chualar" in 1967-69.

SEDIMENT RECORDS: Water years 1950-51, 1967 to September 1979 (discontinued). Published incorrectly as station

11152300 "near Chualar" in 1967-69.

TURBIDITY: Water year 1973.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to January 1977.

WATER TEMPERATURES: December 1966 to September 1979.

SEDIMENT RECORDS: December 1966 to September 1979.

REMARKS.--Low flow represents waste water from Spreckels sugar refinery and Alisal sewage disposal plant.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 24,000 mg/L Mar. 5, 1978; minimum daily mean, no flow for several days in 1968.

SEDIMENT DISCHARGE: Maximum daily, 2,940,000 tons (2,667,000 metric tons) Feb. 11, 1978; minimum daily, 0 ton (0 metric ton) several days in 1968.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean 14,700 mg/L Jan. 16; minimum daily mean, 10 mg/L July 15-17.

SEDIMENT DISCHARGE: Maximum daily, 58,800 tons (53,300 metric tons) Jan. 16; minimum daily, 0.03 ton (0.03 metric ton) July 17-18.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	12.0	17.0	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	17.5	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	19.5	---	---	27.0	---
8	---	---	---	---	---	19.0	---	---	---	---	---	---
9	---	---	---	---	---	16.0	---	---	---	---	---	---
10	---	---	---	---	---	---	17.0	---	---	---	---	---
11	---	---	---	---	---	---	18.0	---	---	---	---	---
12	---	---	---	12.0	---	---	18.5	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	16.0	---	---	---	---	---	---
15	---	---	5.0	---	---	---	---	---	---	---	---	---
16	---	---	---	---	10.0	13.0	---	---	---	---	---	---
17	---	18.5	---	10.5	---	---	---	---	---	31.5	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	15.0	---	---	---	---	---	---
20	21.0	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	15.0	---	---	---	---	---	23.5
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	10.5	17.0	21.0	21.0	---	---	---	---
24	---	---	---	---	---	---	---	29.0	---	---	---	---
25	---	---	---	---	---	---	20.0	---	---	---	---	---
26	---	---	---	---	---	14.0	---	---	---	---	---	---
27	---	---	---	---	---	---	21.5	---	---	---	---	---
28	---	---	---	---	---	13.5	---	---	---	---	---	---
29	---	---	---	---	---	13.0	---	---	---	---	---	---
30	---	---	---	---	---	14.5	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	21.0	18.5	5.0	11.5	10.5	15.0	19.0	23.0	---	31.5	27.0	23.5
WTR YR 1979	MEAN	17.0	MAX	31.5	MIN	5.0						

SALINAS RIVER BASIN

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11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	44	68	8.1	1.1	40	.12	23	75	4.7
2	26	67	4.7	1.1	39	.12	27	80	5.8
3	19	67	3.4	1.1	38	.11	28	85	6.4
4	13	66	2.3	1.1	37	.11	31	90	7.5
5	10	65	1.8	1.1	36	.11	34	95	8.7
6	8.2	64	1.4	.99	35	.09	28	95	7.2
7	6.9	64	1.2	1.0	34	.09	31	100	8.4
8	6.3	63	1.1	.96	33	.09	34	105	9.6
9	5.3	62	.89	.96	32	.08	38	105	11
10	4.6	61	.76	1.0	31	.08	42	107	12
11	4.0	60	.65	1.0	30	.08	39	106	11
12	3.7	60	.60	1.1	29	.09	41	105	12
13	3.2	59	.51	.99	28	.07	48	104	13
14	2.8	58	.44	.95	27	.07	50	103	14
15	2.7	57	.42	.93	26	.07	50	103	14
16	2.4	56	.36	.96	25	.06	48	97	13
17	2.2	55	.33	.97	24	.06	53	95	14
18	1.8	54	.26	1.0	24	.06	53	95	14
19	1.7	53	.24	.97	23	.06	46	95	12
20	1.4	53	.20	1.0	22	.06	31	94	7.9
21	1.4	52	.20	1.3	22	.08	23	93	5.8
22	1.3	50	.18	48	598	252	17	90	4.1
23	1.3	49	.17	54	467	98	15	87	3.5
24	1.2	48	.16	26	125	8.8	15	83	3.4
25	1.2	47	.15	24	100	6.5	17	80	3.7
26	1.2	46	.15	21	85	4.8	20	78	4.2
27	1.7	45	.21	19	80	4.1	23	80	5.0
28	1.5	44	.18	18	75	3.6	26	80	5.6
29	1.2	43	.14	20	70	3.8	27	79	5.8
30	1.1	42	.12	22	70	4.2	26	73	5.1
31	1.1	41	.12	---	---	---	23	65	4.0
TOTAL	183.4	---	31.44	273.58	---	387.56	1007	---	256.4
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	21	58	3.3	13	49	1.7	2610	970	6840
2	22	52	3.1	46	149	20	2460	880	5840
3	24	48	3.1	29	54	4.2	2370	800	5120
4	26	45	3.2	63	60	10	1860	640	3210
5	28	43	3.3	78	55	12	1000	550	1490
6	29	40	3.1	69	52	9.7	734	480	951
7	31	36	3.0	59	50	8.0	604	380	620
8	45	252	45	53	48	6.9	522	260	366
9	65	130	23	37	46	4.6	450	172	209
10	194	1930	1280	24	44	2.9	392	158	167
11	68	580	106	18	42	2.0	344	156	145
12	70	374	71	14	40	1.5	306	154	127
13	53	212	30	16	50	2.2	279	153	115
14	82	540	146	1250	4570	31600	238	150	96
15	354	3140	11600	1880	6380	34100	210	143	81
16	1450	14700	58800	946	4300	11000	210	150	85
17	591	8200	13100	844	4000	9120	217	145	85
18	311	3400	2850	646	2900	5060	226	128	78
19	175	1000	472	515	1850	2570	210	110	62
20	81	400	87	449	1000	1210	204	100	55
21	35	200	19	765	1720	4880	186	90	45
22	19	143	7.3	1990	5080	29400	168	85	39
23	13	95	3.3	2480	6290	49100	157	80	34
24	9.0	80	1.9	3190	3380	29300	132	77	27
25	7.5	70	1.4	3120	1600	13500	108	75	22
26	6.5	60	1.1	2930	1240	9810	95	85	22
27	5.7	50	.77	2780	1140	8560	142	93	41
28	5.0	40	.54	2670	1050	7570	1170	2610	9930
29	4.5	35	.43	---	---	---	1940	10300	54900
30	5.2	40	.56	---	---	---	1410	4550	17800
31	15	130	7.0	---	---	---	1860	4300	21900
TOTAL	3845.4	---	88675.40	26974	---	246865.7	22814	---	130502

SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	1590	1700	7300	4.1	80	.89	1.5	24	.10
2	1250	950	3210	2.7	80	.58	1.5	23	.09
3	1010	752	2050	2.1	80	.45	1.4	23	.09
4	817	653	1440	1.7	78	.36	1.3	23	.08
5	683	561	1030	1.2	75	.24	1.3	22	.08
6	575	472	733	.99	73	.20	1.7	22	.10
7	484	386	504	.87	69	.16	2.2	22	.13
8	425	309	355	.86	68	.16	2.5	21	.14
9	374	245	247	.82	68	.15	2.1	21	.12
10	325	210	184	.78	68	.14	2.3	21	.13
11	288	192	149	.71	67	.13	2.2	20	.12
12	251	188	127	.71	63	.12	2.2	20	.12
13	225	183	111	.98	60	.16	2.1	20	.11
14	193	176	92	1.3	56	.20	2.3	19	.12
15	163	165	73	1.1	50	.15	2.0	19	.10
16	146	156	61	1.4	45	.17	2.0	19	.10
17	132	143	51	1.3	43	.15	1.9	18	.09
18	109	131	39	.88	40	.10	2.2	18	.11
19	85	118	27	1.0	40	.11	1.9	18	.09
20	65	96	17	1.2	38	.12	1.8	18	.09
21	52	80	11	1.6	33	.14	1.6	17	.07
22	38	65	6.7	1.9	30	.15	1.6	17	.07
23	31	50	4.2	1.9	27	.14	1.6	17	.07
24	25	43	2.9	1.8	25	.12	1.5	17	.07
25	19	39	2.0	1.7	25	.11	1.4	16	.06
26	15	93	3.8	1.7	25	.11	1.5	16	.06
27	11	99	2.9	1.6	25	.11	1.6	16	.07
28	10	90	2.4	1.6	24	.10	1.6	16	.07
29	7.0	83	1.6	1.5	24	.10	1.6	15	.06
30	5.0	81	1.1	1.6	24	.10	1.6	15	.06
31	---	---	---	1.6	24	.10	---	---	---
TOTAL	9403.0	---	17838.6	45.20	---	6.02	54.0	---	2.77

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	1.5	15	.06	1.1	26	.08	1.2	35	.11
2	1.5	15	.06	1.1	28	.08	1.1	35	.10
3	1.3	14	.05	1.1	29	.09	1.2	35	.11
4	1.3	14	.05	1.2	31	.10	1.2	35	.11
5	1.3	14	.05	1.2	32	.10	1.2	35	.11
6	1.2	13	.04	1.2	33	.11	1.2	35	.11
7	1.3	13	.05	.82	35	.08	1.2	35	.11
8	1.3	13	.05	.67	35	.06	1.3	35	.12
9	1.3	12	.04	.64	35	.06	1.3	35	.12
10	1.2	12	.04	.66	35	.06	1.3	35	.12
11	1.2	12	.04	.65	35	.06	1.3	35	.12
12	1.2	11	.04	.69	35	.07	1.3	35	.12
13	1.2	11	.04	.71	35	.07	1.4	35	.13
14	1.2	11	.04	.74	35	.07	1.5	35	.14
15	1.3	10	.04	.84	35	.08	1.6	35	.15
16	1.3	10	.04	.81	35	.08	1.6	35	.15
17	1.2	10	.03	.76	35	.07	1.5	35	.14
18	1.1	11	.03	.82	35	.08	1.6	35	.15
19	1.1	12	.04	.79	35	.07	1.8	35	.17
20	1.1	13	.04	.88	35	.08	1.8	35	.17
21	1.2	14	.05	.85	35	.08	1.8	35	.17
22	1.1	15	.04	.82	35	.08	1.9	35	.18
23	1.2	16	.05	.83	35	.08	1.8	35	.17
24	1.2	17	.06	.89	35	.08	1.9	35	.18
25	1.1	18	.05	.99	35	.09	1.8	35	.17
26	1.1	19	.06	.99	35	.09	1.8	35	.17
27	1.1	20	.06	.99	35	.09	1.8	35	.17
28	1.1	21	.06	.99	35	.09	1.8	35	.17
29	1.1	22	.07	1.0	35	.09	1.8	35	.17
30	1.1	23	.07	1.1	35	.10	1.7	35	.16
31	1.1	25	.07	1.1	35	.10	---	---	---
TOTAL	37.5	---	1.51	27.93	---	2.52	45.7	---	4.27

YEAR 64710.71

484574.2

SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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	SED. SUSP. FALL DIAM. % FINER THAN .031 MM
DEC 15...	1050	5.0	50	103	14	--	--	--	--
JAN 17...	1145	10.5	565	8670	13200	79	93	96	98
FEB 16...	1030	10.0	939	4350	11000	73	87	97	97
23...	1145	10.5	2790	8240	62100	50	64	74	78
MAR 29...	1130	13.0	2120	16900	96700	58	77	89	93

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. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
DEC 15...	--	97	--	98	--	99	100	--
JAN 17...	98	--	99	--	100	--	--	--
FEB 16...	--	97	--	98	--	99	100	--
23...	--	80	--	84	--	88	97	100
MAR 29...	--	94	--	96	--	99	100	--

SALINAS RIVER BASIN

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 (0.5 km) downstream from San Benancio Gulch, and 4.7 mi (7.6 km) southwest of Spreckels.

DRAINAGE AREA.--31.9 mi² (82.6 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 210 ft (64 m), from topographic map.

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

AVERAGE DISCHARGE.--18 years, 1.52 ft³/s (0.043 m³/s), 1,100 acre-ft/yr (1.36 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 626 ft³/s (17.7 m³/s) Jan. 26, 1969, gage height, 5.99 ft (1.826 m), from rating curve extended above 93 ft³/s (2.63 m³/s) on basis of slope-area measurement of maximum flow; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft³/s (0.6 m³/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 21	1200	28	0.79	3.52	1.073	Mar. 28	0115	*57	1.61	3.92	1.195
Mar. 19	0015	32	.91	3.59	1.094						

Minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Aug. 27, 28, Sept. 4, 6, 7, 9-13, 15-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.09	.26	.18	.91	7.7	7.0	.26	.09	.10	.08	.03
2	.06	.10	.17	.19	6.1	5.3	5.4	.22	.09	.09	.09	.03
3	.06	.10	.17	.19	1.1	5.4	4.1	.22	.09	.10	.08	.03
4	.07	.10	.18	.20	.34	4.5	3.4	.22	.09	.13	.06	.02
5	.08	.11	.18	.31	.31	3.5	2.7	.22	.09	.22	.05	.03
6	.08	.10	.19	.22	.26	2.8	2.3	.22	.08	.17	.06	.02
7	.08	.09	.18	.27	.25	2.2	1.8	.38	.11	.12	.06	.02
8	.08	.10	.18	2.8	.23	1.8	1.5	.24	.09	.12	.06	.03
9	.08	.11	.19	.37	.23	1.3	1.2	.22	.09	.11	.06	.02
10	.06	.12	.22	.28	.23	1.0	1.2	.22	.08	.09	.07	.02
11	.05	.13	.22	.28	.23	.82	1.3	.18	.08	.09	.07	.02
12	.05	.15	.22	.26	.22	.73	.83	.17	.09	.09	.06	.02
13	.05	.15	.22	.25	1.0	.45	.65	.17	.09	.08	.06	.02
14	.05	.13	.24	3.0	11	.34	.49	.18	.09	.10	.05	.03
15	.07	.12	.25	2.2	4.2	1.8	.36	.19	.10	.10	.05	.02
16	.10	.12	.26	.42	7.0	7.8	.32	.20	.10	.10	.05	.02
17	.09	.12	.28	.56	3.2	8.6	.38	.19	.10	.10	.04	.02
18	.09	.13	1.3	.79	2.1	6.6	.45	.18	.10	.10	.03	.02
19	.09	.13	.94	.30	5.0	17	.47	.18	.10	.10	.03	.03
20	.10	.33	.22	.29	7.8	8.0	.37	.20	.11	.10	.03	.03
21	.09	1.2	.20	.28	17	6.7	.32	.19	.10	.19	.03	.04
22	.09	.28	.19	.24	13	5.7	.31	.25	.11	.13	.03	.03
23	.08	.17	.19	.22	15	4.5	.30	.32	.12	.09	.03	.04
24	.07	.16	.19	.25	8.9	3.6	.29	.16	.25	.09	.03	.04
25	.08	.16	.19	.23	7.2	3.1	.27	.15	.25	.08	.03	.03
26	.09	.16	.19	.22	9.7	3.3	.39	.15	.12	.09	.03	.04
27	.10	.16	.19	.22	6.8	12	.38	.19	.17	.09	.02	.04
28	.10	.15	.20	.22	6.1	24	.30	.11	.10	.11	.02	.03
29	.09	.16	.24	.22	---	12	.30	.10	.09	.10	.03	.03
30	.09	.16	.22	2.9	---	9.4	.26	.09	.09	.08	.03	.03
31	.09	---	.18	.90	---	8.2	---	.10	---	.08	.03	---
TOTAL	2.42	5.29	8.25	19.26	135.41	180.14	39.34	6.07	3.26	3.34	1.45	.83
MEAN	.078	.18	.27	.62	4.84	5.81	1.31	.20	.11	.11	.047	.028
MAX	.10	1.2	1.3	3.0	17	24	7.0	.38	.25	.22	.09	.04
MIN	.05	.09	.17	.18	.22	.34	.26	.09	.08	.08	.02	.02
AC-FT	4.8	10	16	38	269	357	78	12	6.5	6.6	2.9	1.6
CAL YR 1978 TOTAL	1118.30			MEAN 3.06	MAX 64	MIN .05	AC-FT 2220					
WTR YR 1979 TOTAL	405.06			MEAN 1.11	MAX 24	MIN .02	AC-FT 803					

TEMLADERO 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 (0.5 km) downstream from small left-bank tributary, and 6.2 mi (10.0 km) northeast of Salinas.

DRAINAGE AREA.--36.7 mi² (95.1 km²).

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

GAGE.--Water-stage recorder. Concrete control since Oct. 9, 1975. Altitude of gage is 200 ft (61 m), from topographic map. Prior to Oct. 9, 1975, on right bank at same datum.

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

AVERAGE DISCHARGE.--9 years, 3.25 ft³/s (0.092 m³/s), 2,350 acre-ft/yr (2.90 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 800 ft³/s (22.7 m³/s) Apr. 1, 1974, gage height, 11.13 ft (3.392 m), from rating curve extended above 260 ft³/s (7.36 m³/s) on basis of slope-area measurement of maximum flow; no flow for most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 69 ft³/s (1.95 m³/s) Feb. 22 (2145 hrs), gage height, 2.51 ft (0.765 m), no other peak above base of 60 ft³/s (1.7 m³/s); no flow many months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.13	7.5	0				
2					0		.97	.01				
3					0	0	1.2	.01				
4					0	0	0	0				
5					0	0	0	0				
6					0	0	0	0				
7					0	0	0	0				
8					0	0	0	0				
9					0	0	0	0				
10					0	0	0	0				
11					0	0	0	0				
12					0	0	0	0				
13					0	0	0	0				
14					0	0	0	0				
15					0	0	0	0				
16					0	.20	0	0				
17					0	.02	0	0				
18					0	0	0	0				
19					0	.06	0	0				
20					3.1	0	0	0				
21					25	0	0	0				
22					40	0	0	0				
23					56	0	0	0				
24					30	0	0	0				
25					9.3	0	0	0				
26					4.6	0	0	0				
27					.03	.07	0	0				
28					.27	20	0	0				
29					---	31	0	0				
30					---	29	0	0				
31		---			---	19	---	0	---			---
TOTAL	0	0	0	0	168.30	99.48	9.67	.02	0	0	0	0
MEAN	0	0	0	0	6.01	3.21	.32	.0006	0	0	0	0
MAX	0	0	0	0	56	31	7.5	.01	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	334	197	19	.04	0	0	0	0
CAL YR 1978	TOTAL	1230.20	MEAN	3.37	MAX	138	MIN	0	AC-FT	2440		
WTR YR 1979	TOTAL	277.47	MEAN	.76	MAX	56	MIN	0	AC-FT	550		

TEMLADERO SLOUGH BASIN

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 (5.5 km) northwest of Salinas.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 30 ft (9.1 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 473 ft³/s (13.4 m³/s) Apr. 2, 1974; no flow Dec. 4, 10, 11, 1978.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	3.0	7.7	2.7	15	48	6.1	5.5	10	4.5	6.5	7.6
2	2.6	8.4	1.2	4.5	27	25	4.5	5.0	6.7	2.6	7.6	6.1
3	6.7	10	.01	13	5.0	7.0	2.7	5.5	3.9	6.2	9.4	3.3
4	6.8	9.6	0	2.7	2.0	5.0	3.1	5.5	4.7	8.2	6.3	2.1
5	8.4	4.4	.58	5.7	1.7	4.2	5.1	4.1	6.8	2.6	1.9	8.5
6	9.4	1.5	.40	112	1.5	4.1	7.8	2.5	7.2	5.6	.70	8.7
7	8.4	6.6	.01	113	1.3	4.7	6.6	1.9	9.1	7.2	5.9	8.1
8	5.5	11	.12	51	1.3	3.9	4.8	3.5	7.9	7.0	6.5	8.1
9	.82	10	.07	36	1.3	4.8	3.6	2.1	7.5	5.5	5.7	4.9
10	7.3	8.0	0	8.8	1.3	3.9	5.5	2.1	8.0	11	4.3	3.6
11	7.4	8.6	0	3.1	1.2	4.2	8.4	1.7	8.0	7.7	7.1	9.2
12	7.7	2.0	.44	133	1.2	3.8	8.8	2.2	9.4	9.6	4.3	9.1
13	5.9	13	.98	138	5.0	3.5	8.7	2.4	9.7	9.9	1.3	12
14	8.2	5.3	.73	96	70	5.8	7.0	2.7	13	6.0	7.1	11
15	3.4	4.3	.73	67	40	18	3.9	3.2	10	6.5	8.3	8.4
16	.76	3.7	.73	58	30	56	3.0	2.5	8.8	5.1	6.3	6.3
17	3.2	2.3	.14	12	23	50	4.5	1.8	6.3	8.5	6.8	4.2
18	4.9	2.7	.46	3.8	16	16	5.6	2.0	7.1	11	7.9	7.7
19	5.3	.73	73	1.9	24	10	6.6	2.4	10	8.9	4.0	11
20	8.2	11	20	1.7	50	7.5	4.8	1.4	8.0	6.6	1.7	13
21	10	159	5.1	1.7	160	6.1	5.2	.87	9.1	17	5.3	14
22	3.6	116	3.8	1.6	100	5.3	6.8	11	7.6	7.8	6.1	10
23	1.1	65	2.2	1.7	78	5.3	5.6	13	6.8	2.2	8.7	5.9
24	4.0	6.8	.93	2.3	60	4.0	5.7	15	3.0	7.2	11	4.5
25	3.4	.48	.53	2.6	54	2.8	6.3	15	1.8	5.2	11	11
26	3.6	.07	.52	2.5	65	2.5	21	14	6.6	8.2	5.6	12
27	4.7	.03	1.8	2.3	50	32	9.1	12	11	7.6	2.3	11
28	3.5	.63	2.6	1.9	45	90	4.8	7.8	11	6.0	6.9	7.0
29	.71	.98	2.7	2.5	---	73	4.4	4.8	8.1	5.6	6.7	6.8
30	.13	1.1	1.4	12	---	30	5.4	7.7	6.7	3.6	6.9	4.3
31	2.3	---	1.2	4.5	---	9.0	---	11	---	6.9	5.9	---
TOTAL	151.02	476.22	175.62	899.5	929.8	545.4	185.4	172.17	233.8	217.5	186.00	239.4
MEAN	4.87	15.9	5.67	29.0	33.2	17.6	6.18	5.55	7.79	7.02	6.00	7.98
MAX	10	159	73	138	160	90	21	15	13	17	11	14
MIN	.13	.03	0	1.6	1.2	2.5	2.7	.87	1.8	2.2	.70	2.1
AC-FT	300	945	348	1780	1840	1080	368	341	464	431	369	475
CAL YR 1978	TOTAL	7824.40	MEAN	21.4	MAX	301	MIN	0	AC-FT	15520		
WTR YR 1979	TOTAL	4411.83	MEAN	12.1	MAX	160	MIN	0	AC-FT	8750		

PAJARO RIVER BASIN

75

11152900 CEDAR CREEK NEAR BELL STATION, CA

LOCATION.--Lat 37°03'00", long 121°19'35", in San Luis Gonzaga Grant, Santa Clara County, Hydrologic Unit 18060002, on left bank 0.5 mi (0.8 km) upstream from Hagerman Canyon, and 1.3 mi (2.1 km) northwest of Bell Station.

DRAINAGE AREA.--12.8 mi² (33.2 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m), from topographic map.

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

AVERAGE DISCHARGE.--18 years, 4.03 ft³/s (0.114 m³/s), 2,920 acre-ft/yr (3.60 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,490 ft³/s (98.8 m³/s) Jan. 31, 1963, gage height, 6.85 ft (2.088 m), from rating curve extended above 560 ft³/s (15.9 m³/s) on basis of slope-area measurement at gage height 4.66 ft (1.420 m); no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 324 ft³/s (9.18 m³/s) Feb. 21 (0800 hrs), gage height, 3.19 ft (0.972 m), no other peak above base of 150 ft³/s (4.2 m³/s); no flow many days.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	.09	.05	.73	2.7	2.6	.39	.07	0	0	.01
2	0	.01	.08	.05	1.3	2.0	2.1	.36	.07	0	0	.02
3	0	.01	.08	.05	1.1	1.6	1.8	.34	.07	0	0	.02
4	0	.02	.08	.05	.85	1.4	1.6	.31	.06	0	0	.01
5	0	.02	.08	.08	.74	1.3	1.4	.29	.06	0	0	.01
6	0	.02	.08	.06	.66	1.1	1.4	.28	.06	0	0	.01
7	0	.02	.08	.07	.58	1.1	1.3	.25	.05	0	0	.01
8	0	.02	.08	.32	.58	1.0	1.2	.23	.05	0	.01	.01
9	0	.02	.08	.15	.51	.96	1.2	.21	.05	0	.03	.01
10	.01	.02	.08	.10	.51	.92	1.1	.21	.04	0	.04	.01
11	.01	.02	.08	.19	.45	.83	1.1	.20	.04	0	.05	.01
12	.01	.03	.08	.13	.45	.83	1.0	.18	.04	0	.05	.01
13	0	.02	.08	.10	.53	.83	1.0	.18	.04	0	.05	.01
14	0	.03	.08	5.5	24	.79	.92	.18	.03	0	.05	.01
15	0	.03	.08	19	4.9	.80	.86	.18	.03	0	.05	0
16	0	.03	.08	3.5	4.3	1.1	.74	.18	.02	0	.05	0
17	0	.03	.13	1.5	2.9	1.7	.74	.16	.02	0	.05	0
18	.01	.03	.18	1.4	6.6	1.4	.69	.15	.01	0	.05	0
19	.01	.04	.15	.99	17	1.3	.66	.15	.01	.01	.02	0
20	.01	.14	.09	.81	48	1.2	.66	.15	.01	.01	.01	.01
21	.01	.38	.06	.71	114	1.1	.60	.15	0	.02	.01	.01
22	.01	.23	.06	.64	72	1.0	.58	.15	0	.02	.02	.01
23	.01	.14	.06	.58	47	.95	.55	.13	0	.02	.02	.02
24	.01	.12	.06	.54	17	.92	.51	.12	0	.02	.02	.02
25	.01	.10	.06	.48	8.3	.92	.51	.12	0	.01	.02	.02
26	.01	.10	.06	.45	4.9	.93	.46	.12	0	.01	.02	.03
27	.02	.10	.06	.45	3.2	2.2	.39	.12	0	.01	.01	.04
28	.02	.08	.06	.39	2.5	13	.45	.10	0	0	.01	.04
29	.02	.08	.06	.39	---	12	.45	.09	0	0	.02	.05
30	.02	.08	.05	.40	---	5.2	.41	.08	0	0	.01	.05
31	.02	---	.05	.41	---	3.3	---	.08	---	0	.01	---
TOTAL	.23	1.98	2.48	39.54	385.59	66.38	28.98	5.84	.83	.13	.68	.46
MEAN	.007	.066	.080	1.28	13.8	2.14	.97	.19	.028	.004	.022	.015
MAX	.02	.38	.18	19	114	13	2.6	.39	.07	.02	.05	.05
MIN	0	.01	.05	.05	.45	.79	.39	.08	0	0	0	0
AC-FT	.5	3.9	4.9	78	765	132	57	12	1.6	.3	1.3	.9
CAL YR 1978	TOTAL	3147.44	MEAN 8.62	MAX 365	MIN 0	AC-FT 6240						
WTR YR 1979	TOTAL	533.12	MEAN 1.46	MAX 114	MIN 0	AC-FT 1060						

PAJARO RIVER BASIN

11153000 PACHECO CREEK NEAR DUNNEVILLE, CA

LOCATION.--Lat 36°58'48", long 121°22'45", in Ausaymas y San Felipe Grant, Santa Clara County, Hydrologic Unit 18060002, on right bank 350 ft (107 m) downstream from private road bridge, and 3.3 mi (5.3 km) northeast of Dunneville.

DRAINAGE AREA.--146 mi² (378 km²).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only prior to January 1940, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 230.70 ft (70.317 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 17, 1950, nonrecording gage at site 350 ft (107 m) upstream at datum 6.00 ft (1.829 m) higher and Nov. 17, 1950, to Aug. 18, 1960, at datum 4.00 ft (1.219 m) higher.

REMARKS.--Records good. Flow regulated by Pacheco Lake 9 mi (14 km) upstream, capacity, 6,150 acre-ft (7.58 hm³). Small diversions above station for irrigation.

AVERAGE DISCHARGE.--40 years, 32.7 ft³/s (0.926 m³/s), 23,690 acre-ft/yr (29.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s (357 m³/s) Dec. 23, 1955, gage height, 21.0 ft (6.40 m), present site and datum, from floodmarks, from rating curve extended above 5,400 ft³/s (153 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,600 ft³/s (45.3 m³/s) Feb.21, gage height, 8.80 ft (2.682 m); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	0			0	27	22	.81	0	19	11	.24
2	7.0	0			0	20	18	.81	0	19	11	.19
3	7.0	0			0	14	15	.58	0	18	12	.17
4	6.9	0			0	11	13	.42	0	18	11	.12
5	5.6	0			0	7.7	11	.34	0	18	11	.11
6	5.6	0			0	5.8	8.6	.35	.87	17	9.7	.09
7	5.5	0			0	4.4	6.9	.75	5.4	18	8.6	.06
8	4.9	0			0	3.3	5.6	.51	7.5	15	9.9	.03
9	4.0	0			0	2.6	4.6	.07	7.8	11	12	.02
10	3.2	0			0	1.8	3.9	0	8.4	11	12	.01
11	2.7	0			0	1.4	3.5	0	8.8	10	12	0
12	2.1	0			0	1.4	3.1	0	8.8	10	12	0
13	1.1	0			0	1.3	2.9	0	9.0	9.7	11	0
14	.56	0			0	1.2	2.5	0	9.7	9.4	11	0
15	.35	0			0	1.7	2.5	0	9.3	9.1	11	0
16	.32	0			0	2.4	2.3	0	8.4	8.8	11	0
17	.21	0			0	4.6	2.1	0	8.4	8.6	9.9	0
18	.09	0			0	27	1.9	0	7.7	8.4	8.9	0
19	.06	0			0	30	1.8	0	7.6	9.0	8.4	0
20	.06	0			93	26	1.6	0	7.0	9.5	7.8	0
21	.04	.40			788	20	1.5	0	6.7	10	7.1	0
22	.02	0			467	15	1.5	0	6.7	10	6.9	0
23	0	0			542	12	1.5	0	6.8	11	5.7	0
24	0	0			174	8.9	1.3	0	11	11	5.5	0
25	0	0			87	7.2	1.3	0	14	12	4.7	0
26	0	0			53	6.0	1.3	0	19	13	3.6	0
27	0	0			35	6.1	1.2	0	19	12	2.8	0
28	0	0			26	5.4	1.0	0	19	12	2.1	0
29	0	0			---	71	.86	0	19	12	2.5	0
30	0	0			---	42	.75	0	19	11	1.3	0
31	0	---			---	29	---	0	---	11	.45	---
TOTAL	64.51	.40	0	0	2265	507.2	145.01	4.64	254.87	381.5	253.85	1.04
MEAN	2.08	.013	0	0	80.9	16.4	4.83	.15	8.50	12.3	8.19	.035
MAX	7.2	.40	0	0	788	71	22	.81	19	19	12	.24
MIN	0	0	0	0	0	1.2	.75	0	0	8.4	.45	0
AC-FT	128	.8	0	0	4490	1010	288	9.2	506	757	504	2.1
CAL YR 1978	TOTAL	25984.93	MEAN 71.2	MAX 3510	MIN 0	AC-FT 51540						
WTR YR 1979	TOTAL	3878.02	MEAN 10.6	MAX 788	MIN 0	AC-FT 7690						

11153470 LLAGAS CREEK ABOVE CHESBRO RESERVOIR, NEAR MORGAN HILL, CA

LOCATION.--Lat 37°08'54", long 121°46'02", in Pueblo Lands of San Jose Grant, Santa Clara County, Hydrologic Unit 18060002, on left bank 200 ft (61 m) upstream from small left-bank tributary, 5.7 mi (9.2 km) upstream from Chesbro Dam, and 6.4 mi (10.3 km) west of Morgan Hill.

DRAINAGE AREA.--9.63 mi² (24.94 km²), revised.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 670 ft (204 m), from topographic map.

REMARKS.--Records good. Small diversion above station by pumping.

AVERAGE DISCHARGE.--8 years, 7.92 ft³/s (0.224 m³/s), 5,740 acre-ft/yr (7.08 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 969 ft³/s (27.4 m³/s) Jan. 16, 1978, gage height, 7.50 ft (2.286 m), from rating curve extended above 180 ft³/s (5.10 m³/s) on basis of slope-area measurement at gage height 5.56 ft (1.695 m); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 14	2130	224	6.34	3.90	1.189	Feb. 22	1330	*262	7.42	4.05	1.234
Feb. 13	2000	229	6.49	3.92	1.195						

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.14	.34	5.6	30	22	4.3	1.1	.19		
2	0	.02	.16	.34	6.4	23	19	4.1	1.0	.19		
3	0	.01	.15	.34	5.2	20	17	3.9	1.0	.20		
4	0	.02	.14	.34	4.7	17	15	3.8	1.0	.21		
5	0	.02	.11	.37	4.3	16	13	3.6	.98	.20		
6	0	0	.15	.34	4.1	14	12	3.6	.84	.18		
7	0	0	.22	.35	3.9	13	11	3.6	.76	.16		
8	0	0	.25	14	3.6	11	10	3.4	.65	.13		
9	0	0	.23	8.1	3.2	11	9.5	3.1	.59	.12		
10	0	.01	.26	2.3	3.2	10	9.4	2.9	.51	.11		
11	0	.03	.28	2.9	3.2	9.5	9.2	2.8	.47	.11		
12	0	.09	.30	2.5	2.9	9.3	8.8	2.6	.41	.07		
13	0	.20	.34	1.7	54	8.8	8.4	2.5	.42	.04		
14	0	.19	.34	49	67	8.3	8.3	2.3	.43	.02		
15	0	.19	.34	90	23	8.2	8.5	2.4	.44	.02		
16	0	.19	.34	24	35	8.1	8.5	2.3	.48	0		
17	0	.19	.63	14	22	7.5	8.3	2.2	.48	0		
18	0	.19	1.4	11	19	7.0	7.7	2.1	.41	0		
19	0	.22	.88	9.0	18	6.7	7.2	1.9	.44	0		
20	.04	.43	.58	8.0	38	6.3	6.6	2.0	.40	0		
21	.09	.54	.47	6.9	85	5.9	6.3	1.9	.39	.02		
22	.07	1.1	.43	5.8	98	5.7	5.9	1.9	.38	.23		
23	0	.51	.40	5.2	74	5.1	7.4	1.8	.32	.07		
24	0	.26	.40	4.8	51	4.5	5.8	1.7	.27	0		
25	0	.19	.40	4.4	41	4.4	5.4	1.6	.27	0		
26	0	.19	.39	3.8	34	6.2	5.2	1.5	.27	0		
27	0	.17	.34	3.6	28	55	5.3	1.4	.26	0		
28	.03	.12	.34	3.4	27	50	4.9	1.4	.23	0		
29	.02	.11	.34	3.2	---	38	4.5	1.3	.21	0		
30	0	.12	.34	6.8	---	31	4.3	1.2	.19	0		
31	0	---	.34	7.7	---	26	---	1.2	---	0		---
TOTAL	.25	5.31	11.43	294.52	764.3	476.5	274.4	76.3	15.60	2.27	0	0
MEAN	.008	.18	.37	9.50	27.3	15.4	9.15	2.46	.52	.073	0	0
MAX	.09	1.1	1.4	90	98	55	22	4.3	1.1	.23	0	0
MIN	0	0	.11	.34	2.9	4.4	4.3	1.2	.19	0	0	0
AC-FT	.5	11	23	584	1520	945	544	151	31	4.5	0	0
CAL YR 1978	TOTAL	6684.06	MEAN 18.3	MAX 508	MIN 0	AC-FT 13260						
WTR YR 1979	TOTAL	1920.88	MEAN 5.26	MAX 98	MIN 0	AC-FT 3810						

PAJARO RIVER BASIN

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 (4.0 km) west of Morgan Hill. DRAINAGE AREA, 19.3 mi² (50.0 km²). PERIOD OF RECORD, December 1955 to current year. Monthly contents prior to October 1959 published in WSP 1735. 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 (9.97 hm³) between elevations 465 ft (141.7 m), elevation of outlet gates, and 525 ft (160.0 m), crest of spillway. Reservoir is used for flood control and water released down Llagas Creek for irrigation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 8,430 acre-ft (10.4 hm³) Mar. 5, 1978, elevation, 526.3 ft (160.41 m); maximum elevation, 527.4 ft (160.75 m) Feb. 24, 1969; no contents at times in 1957, 1960-62, 1973, 1977.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 5,560 acre-ft (6.86 hm³) May 18, elevation, 514.7 ft (156.89 m); minimum observed, 1,460 acre-ft (1.80 hm³) Sept. 30, elevation 488.5 ft (148.90 m).

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 (7.7 km) southwest of Morgan Hill. DRAINAGE AREA, 30.4 mi² (78.7 km²). PERIOD OF RECORD, December 1957 to current year. Monthly contents prior to October 1959 published in WSP 1735. 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 (12.3 hm³) between elevations 410 ft (125.0 m), hydraulic gate valves, and 487.5 ft (148.59 m), crest of spillway. Water released down Uvas Creek for irrigation; at times diverted into Llagas Creek 3.6 mi (5.8 km) below Chesbro Reservoir for ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 11,030 acre-ft (13.6 hm³) Mar. 16, 1967, elevation, 490.5 ft (149.50 m); no contents at times in 1961, 1976, and 1977.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 10,060 acre-ft (12.4 hm³) Apr. 2, elevation, 487.8 ft (148.69 m); minimum observed 1,740 acre-ft (2.15 hm³) Jan. 8, elevation 443.7 ft (135.23 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Chesbro Reservoir	Uvas Reservoir
Sept. 30, 1978..	3610	3930
Oct. 31.....	2520	2980
Nov. 30.....	1590	2250
Dec. 31.....	860	1810
Jan. 31, 1979..	1440	3480
Feb. 28.....	3790	8430
Mar. 31.....	4940	9980
Apr. 30.....	5510	9570
May 31.....	5390	8520
June 30.....	4250	7230
July 31.....	2910	5810
Aug. 31.....	1890	3690
Sept. 30.....	1450	2110

11153700 PAJARO RIVER NEAR GILROY, CA

LOCATION.--Lat 36°56'54", long 121°30'40", on boundary between Las Animas and Llano del Tequisquita Grants, Santa Clara County, Hydrologic Unit 18060002, on right bank 45 ft (14 m) upstream from bridge on State Highway 25, 0.9 mi (1.4 km) downstream from Llagas Creek, and 4.7 mi (7.6 km) southeast of Gilroy.

DRAINAGE AREA.--399 mi² (1,033 km²).

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

GAGE.--Water-stage recorder. Concrete control since Nov. 17, 1971. Datum of gage is 123.88 ft (37.759 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Nov. 17, 1971, at site 45 ft (14 m) downstream at same datum.

REMARKS.--Records good except those for period of no gage-height record, Mar. 26 to June 5, which are poor. Flow regulation by Pacheco Lake, capacity, 6,150 acre-ft (7.58 hm³), Chesbro Reservoir (station 11153480) 21 mi (34 km) upstream, and San Felipe Lake. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--20 years, 54.7 ft³/s (1.549 m³/s), 39,630 acre-ft/yr (48.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,900 ft³/s (365 m³/s) Jan. 25, 1969, gage height, 14.63 ft (4.459 m), from rating curve extended above 4,800 ft³/s (136 m³/s); no flow many days in 1961-62, 1971, 1976-78.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,200 ft³/s (34.0 m³/s) Feb. 23, gage height, 7.67 ft (2.338 m); no flow several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	0	.40	.51	1.9	109	180	13	7.8	3.3	5.9	2.2
2	.76	0	.50	.51	1.7	72	140	12	7.7	4.0	5.5	4.6
3	.88	0	.50	.47	1.6	46	115	11	7.4	3.8	5.2	1.9
4	1.2	0	.44	.20	1.4	31	105	11	5.8	5.1	5.2	1.5
5	1.5	0	.41	.19	1.5	21	85	11	5.1	4.7	5.0	2.3
6	2.2	0	.47	.24	1.6	15	77	11	4.8	4.0	4.5	2.7
7	2.4	0	.55	.30	1.6	12	64	11	5.2	4.2	4.7	2.3
8	2.0	0	.58	13	1.8	10	55	11	5.1	3.6	5.4	2.3
9	1.9	0	.61	26	1.7	8.7	48	11	4.6	4.1	5.2	5.4
10	2.0	0	.67	1.6	2.1	7.3	43	10	3.6	5.3	4.4	3.5
11	3.8	.01	.80	7.8	2.7	5.9	40	9.0	4.5	5.4	4.3	3.8
12	2.0	.04	.84	4.3	2.7	5.1	36	8.2	4.9	4.4	4.0	5.2
13	1.6	.12	.75	1.2	8.5	4.6	32	7.8	6.0	4.6	3.1	6.1
14	1.3	.14	.74	27	44	3.8	24	7.6	6.0	4.3	2.2	7.8
15	1.3	.19	.86	46	16	5.5	22	7.5	4.6	4.3	1.9	8.6
16	1.2	.16	2.5	24	17	8.5	19	7.6	5.1	4.0	2.0	6.5
17	1.6	.35	1.1	5.5	7.9	9.1	16	8.2	5.5	3.8	3.7	3.6
18	1.4	.33	1.2	3.5	7.6	8.1	13	8.5	5.0	3.2	6.9	2.8
19	1.6	.28	4.1	2.1	18	13	12	8.0	6.4	3.3	5.1	2.3
20	1.1	.42	.64	1.5	28	20	13	7.6	6.9	4.2	4.5	2.5
21	.85	6.7	.51	1.4	368	28	14	7.2	5.6	5.8	3.3	4.1
22	.68	5.2	.45	1.2	518	31	14	7.6	5.6	4.9	2.4	3.1
23	.81	2.4	.47	1.3	967	23	13	8.3	6.5	4.4	2.8	3.1
24	1.2	1.6	.60	1.2	577	15	12	8.6	7.5	3.9	2.1	2.3
25	.43	1.2	.66	.84	414	14	13	8.3	7.7	3.8	3.6	2.0
26	.05	.85	.66	.75	305	13	14	8.0	6.8	4.4	3.6	2.7
27	.12	.56	.66	.66	220	20	15	7.5	5.5	5.7	2.2	2.4
28	.21	.27	.66	.71	153	66	16	7.3	6.3	5.1	2.8	3.0
29	.15	.23	.61	.74	---	460	14	7.0	8.3	3.7	4.2	3.1
30	.10	.24	.58	1.7	---	300	13	6.9	5.3	4.7	3.3	2.4
31	.08	---	.53	5.9	---	240	---	7.4	---	5.4	4.1	---
TOTAL	37.52	21.29	25.05	182.32	3691.3	1625.6	1277	276.1	177.1	135.4	123.1	106.1
MEAN	1.21	.71	.81	5.88	132	52.4	42.6	8.91	5.90	4.37	3.97	3.54
MAX	3.8	6.7	4.1	46	967	460	180	13	8.3	5.8	6.9	8.6
MIN	.05	0	.40	.19	1.4	3.8	12	6.9	3.6	3.2	1.9	1.5
AC-FT	74	42	50	362	7320	3220	2530	548	351	269	244	210
CAL YR 1978 TOTAL	57591.41		MEAN 158		MAX 7480	MIN 0	AC-FT 114200					
WTR YR 1979 TOTAL	7677.88		MEAN 21.0		MAX 967	MIN 0	AC-FT 15230					

PAJARO RIVER BASIN

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CA

LOCATION.--Lat 37°05'34", long 121°43'02", in Las Uvas Grant, Santa Clara County, Hydrologic Unit 18060002, on left bank 0.6 mi (1.0 km) downstream from Little Uvas Creek, 0.9 mi (1.4 km) upstream from Hay Canyon, and 4.4 mi (7.1 km) southwest of Morgan Hill.

DRAINAGE AREA.--21.0 mi² (54.4 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 486.47 ft (148.276 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Minor regulation and diversion above station affects low flows.

AVERAGE DISCHARGE.--18 years, 25.3 ft³/s (0.716 m³/s), 18,330 acre-ft/yr (22.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,580 ft³/s (186 m³/s) Oct. 13, 1962, gage height, 13.18 ft (4.017 m); no flow at times in 1961, 1964, 1976-77.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (23 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 13	2030	1340	37.9	7.57	2.307
Feb. 22	1430	*2230	63.2	8.68	2.646

Minimum daily discharge, 0.35 ft³/s (0.010 m³/s) Oct. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.47	.53	1.6	1.9	16	62	37	9.0	4.2	2.1	.81	.69
2	.54	.62	1.6	1.9	16	43	33	9.4	4.3	1.9	.79	.79
3	.53	.76	1.5	1.9	14	38	30	8.4	4.1	2.3	.80	.73
4	.52	.82	1.5	1.9	13	34	27	7.7	3.9	2.0	.77	.61
5	.60	.86	1.4	2.2	12	31	26	7.8	3.9	2.0	.85	.46
6	.72	.79	1.3	2.1	12	28	26	9.3	3.5	2.0	.91	.48
7	.62	.50	1.4	2.1	11	26	23	9.3	3.5	1.7	.94	.60
8	.61	.57	1.4	46	11	25	22	9.3	3.1	1.9	.90	.69
9	.67	.67	1.4	29	11	23	20	8.8	3.2	1.7	.93	.73
10	.65	.64	1.3	9.4	10	22	19	8.4	3.0	1.8	1.0	.79
11	.55	.74	1.4	35	10	20	19	8.0	3.0	1.8	1.0	.67
12	.49	.87	1.3	24	9.9	19	17	7.6	2.7	1.6	.82	.55
13	.35	2.1	1.3	12	297	18	16	7.3	2.5	1.3	.90	.44
14	.41	1.3	1.2	143	209	18	14	6.9	2.7	1.3	.93	.40
15	.60	1.2	1.1	277	55	18	12	6.8	2.9	1.3	.93	.49
16	.61	1.2	1.2	56	96	19	11	6.7	3.1	1.4	.99	.37
17	.73	1.2	3.1	36	49	18	10	6.7	3.1	1.4	1.0	.49
18	.78	1.2	11	29	44	18	9.2	6.3	3.1	1.3	.88	.58
19	.85	1.3	6.1	23	41	17	9.8	6.2	2.9	1.3	1.1	.58
20	.94	5.9	3.8	20	151	16	11	5.9	2.7	1.0	.98	.47
21	.91	6.8	3.0	18	210	15	10	5.9	2.7	2.0	.78	.47
22	.85	11	2.7	16	387	15	10	5.7	2.6	1.7	1.0	.45
23	.86	4.5	2.4	15	161	14	9.5	5.5	2.4	1.4	.84	.52
24	.81	2.7	2.3	15	92	13	9.1	5.3	2.4	1.2	.83	.58
25	.75	2.2	2.2	14	66	13	10	5.3	2.5	1.1	1.1	.64
26	.67	1.8	2.2	12	52	15	11	5.0	2.4	1.1	1.0	.73
27	.73	1.7	2.1	11	44	81	13	5.1	2.4	1.2	.95	.69
28	.61	1.7	2.1	11	46	98	11	4.9	2.2	1.1	.92	.64
29	.70	1.6	2.1	11	---	73	9.6	4.5	2.1	1.0	.92	.60
30	.58	1.6	2.0	18	---	50	10	4.4	2.1	.94	.83	.54
31	.66	---	1.9	19	---	42	---	4.2	---	.76	.83	---
TOTAL	20.37	59.37	70.9	913.4	2145.9	942	495.2	211.6	89.2	46.60	28.23	17.47
MEAN	.66	1.98	2.29	29.5	76.6	30.4	16.5	6.83	2.97	1.50	.91	.58
MAX	.94	11	11	277	387	98	37	9.4	4.3	2.3	1.1	.79
MIN	.35	.50	1.1	1.9	9.9	13	9.1	4.2	2.1	.76	.77	.37
AC-FT	40	118	141	1810	4260	1870	982	420	177	92	56	35
CAL YR 1978	TOTAL	15643.46	MEAN	42.9	MAX	1530	MIN	.35	AC-FT	31030		
WTR YR 1979	TOTAL	5040.24	MEAN	13.8	MAX	387	MIN	.35	AC-FT	10000		

11154100 BODFISH CREEK NEAR GILROY, CA

LOCATION.--Lat 37°00'15", long 121°39'58", in Las Animas Grant, Santa Clara County, Hydrologic Unit 18060002, on left bank just upstream from Whitehurst Creek, 2.7 mi (4.3 km) upstream from mouth, and 5.1 mi (8.2 km) west of west city limits of Gilroy.

DRAINAGE AREA.--7.40 mi² (19.17 km²).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 360 ft (110 m), from topographic map.

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

AVERAGE DISCHARGE.--20 years, 3.46 ft³/s (0.098 m³/s), 2,510 acre-ft/yr (3.09 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,240 ft³/s (35.1 m³/s) Jan. 31, 1963, gage height, 8.25 ft (2.515 m), from rating curve extended above 580 ft³/s (16.4 m³/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 151 ft³/s (4.28 m³/s) Feb. 21 (0800 hrs), gage height, 4.61 ft (1.405 m), no other peak above base of 150 ft³/s (4.2 m³/s); minimum daily, 0.02 ft³/s (0.001 m³/s) Sept. 20-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.07	.17	.25	2.1	9.4	5.4	.96	.42	.23	.07	.07
2	.04	.07	.18	.25	2.1	7.5	5.1	.91	.42	.23	.08	.07
3	.05	.07	.16	.25	1.9	6.8	4.7	.90	.41	.23	.10	.07
4	.05	.07	.19	.25	1.8	6.4	4.5	.82	.43	.22	.09	.07
5	.07	.07	.17	.30	1.8	6.0	4.3	.91	.43	.21	.08	.06
6	.09	.07	.18	.27	1.8	5.7	4.1	.88	.42	.20	.08	.06
7	.07	.06	.18	.26	1.8	5.5	3.7	1.11	.42	.20	.09	.04
8	.06	.07	.18	5.9	1.7	5.2	3.3	.91	.38	.17	.10	.04
9	.07	.08	.18	5.2	1.7	5.0	3.1	.82	.42	.16	.10	.04
10	.06	.09	.18	1.3	1.7	4.8	2.8	.73	.41	.15	.10	.03
11	.06	.09	.18	39	1.7	4.7	2.6	.73	.41	.15	.10	.03
12	.05	.09	.18	11	1.7	4.5	2.4	.63	.41	.15	.10	.03
13	.05	.14	.18	4.8	9.6	4.4	2.1	.57	.43	.14	.11	.03
14	.05	.12	.18	15	15	4.2	1.7	.56	.43	.14	.10	.03
15	.06	.11	.18	16	5.8	4.6	1.6	.59	.43	.15	.09	.03
16	.07	.10	.18	7.4	9.6	5.8	1.6	.57	.40	.14	.08	.03
17	.07	.10	.41	5.2	7.1	5.6	1.4	.56	.37	.13	.08	.03
18	.08	.10	1.8	4.4	9.9	4.9	.96	.54	.37	.12	.08	.03
19	.10	.12	.73	3.5	12	4.7	.89	.53	.35	.12	.08	.03
20	.11	.21	.41	3.1	30	4.5	.86	.65	.34	.12	.08	.02
21	.10	.60	.34	2.8	66	4.3	.86	.60	.32	.14	.08	.02
22	.10	1.0	.31	2.5	49	4.2	.86	.55	.31	.15	.07	.02
23	.09	.66	.29	2.3	39	4.0	.89	.52	.30	.13	.07	.02
24	.08	.53	.29	2.2	20	3.9	.85	.50	.32	.11	.07	.02
25	.07	.46	.29	2.1	13	3.8	.95	.48	.32	.10	.07	.02
26	.07	.40	.29	1.8	11	3.7	1.1	.50	.30	.11	.06	.02
27	.08	.32	.27	1.8	8.9	5.6	1.1	.50	.29	.10	.06	.02
28	.08	.24	.25	1.8	8.4	13	1.0	.47	.26	.09	.07	.02
29	.07	.18	.25	1.6	---	10	1.0	.44	.24	.08	.08	.02
30	.07	.15	.25	2.5	---	7.4	1.1	.43	.22	.07	.08	.02
31	.07	---	.25	2.5	---	6.1	---	.43	---	.08	.07	---
TOTAL	2.19	6.44	9.28	147.53	336.1	176.2	66.82	20.29	10.98	4.52	2.57	1.04
MEAN	.071	.21	.30	4.76	12.0	5.68	2.23	.65	.37	.15	.083	.035
MAX	.11	1.0	1.8	39	66	13	5.4	1.1	.43	.23	.11	.07
MIN	.04	.06	.16	.25	1.7	3.7	.85	.43	.22	.07	.06	.02
AC-FT	4.3	13	18	293	667	349	133	40	22	9.0	5.1	2.1
CAL YR 1978	TOTAL	1785.98	MEAN	4.89	MAX	151	MIN	.03	AC-FT	3540		
WTR YR 1979	TOTAL	783.96	MEAN	2.15	MAX	66	MIN	.02	AC-FT	1550		

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 (122 m) upstream from county road bridge, 0.4 mi (0.6 km) southwest of Gilroy, and 3.9 mi (6.3 km) downstream from Bodfish Creek.

DRAINAGE AREA.--71.2 mi² (184.4 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 190 ft (58 m), from topographic map.

REMARKS.--Records fair. Flow regulated by Uvas Reservoir (station 11154020) 10 mi (16 km) upstream. Diversion above station for irrigation.

AVERAGE DISCHARGE.--20 years, 33.7 ft³/s (0.954 m³/s), 24,420 acre-ft/yr (30.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,490 ft³/s (269 m³/s) Feb. 1, 1963, gage height, 17.66 ft (5.383 m), from rating curve extended above 3,300 ft³/s (93.5 m³/s); no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 686 ft³/s (19.4 m³/s) Feb. 21, gage height, 5.75 ft (1.753 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.05	0	.47	72	49	12				
2		0	.14	0	0	47	40	12				
3		0	.08	0	0	37	32	12				
4		0	.04	0	0	31	27	11				
5		0	.03	0	0	26	22	11				
6		0	.01	0	0	23	20	12				
7		0	.06	0	0	21	20	12				
8		0	.03	0	0	19	18	12				
9		0	0	13	0	17	16	11				
10		0	.06	8.4	0	14	14	10				
11		0	.11	67	0	13	11	9.6				
12		0	.15	57	0	12	8.8	9.0				
13		0	.12	15	.39	10	7.1	9.1				
14		0	0	46	120	9.0	6.7	8.7				
15		0	0	120	51	9.3	5.8	6.5				
16		0	0	50	72	11	5.2	4.7				
17		0	0	26	52	12	5.9	3.5				
18		0	0	14	45	9.2	8.9	2.6				
19		0	1.2	8.5	90	8.5	10	1.7				
20		0	.47	5.9	128	7.4	10	.84				
21		1.2	.02	4.8	406	6.1	10	.39				
22		3.7	0	3.0	363	5.0	10	.20				
23		1.5	0	1.6	341	3.7	11	.02				
24		.60	0	2.2	186	2.2	12	0				
25		.29	0	2.5	123	1.7	13	0				
26		.11	0	1.0	90	1.9	13	0				
27		.08	0	.33	67	8.0	14	0				
28		.06	0	.10	55	23	13	0				
29		.03	0	0	---	34	13	0				
30		0	0	0	---	58	12	0				
31		---	0	.83	---	59	---	0				
TOTAL	0	7.57	2.57	447.16	2189.86	611.0	458.4	171.85	0	0	0	0
MEAN	0	.25	.083	14.4	78.2	19.7	15.3	5.54	0	0	0	0
MAX	0	3.7	1.2	120	406	72	49	12	0	0	0	0
MIN	0	0	0	0	0	1.7	5.2	0	0	0	0	0
AC-FT	0	15	5.1	887	4340	1210	909	341	0	0	0	0
CAL YR 1978	TOTAL	21356.02	MEAN 58.5	MAX 2000	MIN 0	AC-FT 42360						
WTR YR 1979	TOTAL	3888.41	MEAN 10.7	MAX 406	MIN 0	AC-FT 7710						

11156500 SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL, CA

LOCATION.--Lat 36°36'34", long 121°12'07", in SE¼SE¼ sec.21, T.15 S., R.7 E., San Benito County, Hydrologic Unit 18060002, on left bank 0.9 mi (1.4 km) northwest of Willow Creek School, 1.3 mi (2.1 km) downstream from Willow Creek, and 10 mi (16 km) northwest of San Benito.

DRAINAGE AREA.--249 mi² (645 km²).

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

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

GAGE.--Water-stage recorder. Datum of gage is 925.52 ft (282.098 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 28, 1948, and Nov. 11, 1955, to Sept. 30, 1965, at site 0.9 mi (1.4 km) downstream at different datum. Jan. 28, 1948, to Nov. 10, 1955, and Oct. 1, 1965, to Oct. 22, 1970, at present site at datum 2.37 ft (0.722 m) higher.

REMARKS.--Records fair. Flow regulated by Hernandez Reservoir 40 mi (64 km) upstream beginning in December 1961, capacity, 18,700 acre-ft (23.1 hm³). Small diversion above station for irrigation.

AVERAGE DISCHARGE.--40 years, 24.8 ft³/s (0.702 m³/s), 17,970 acre-ft/yr (22.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,210 ft³/s (232 m³/s) Apr. 3, 1958, gage height, 8.35 ft (2.545 m), site and datum then in use, from rating curve extended above 600 ft³/s (17.0 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of February 1938, reached a stage of about 9.0 ft (2.74 m) former datum, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 457 ft³/s (12.9 m³/s) Mar. 28, gage height, 6.30 ft (1.920 m); minimum daily, 2.4 ft³/s (0.068 m³/s) May 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	24	7.1	4.8	18	24	30	4.7	50	49	43	63
2	43	24	7.0	4.8	18	23	24	4.9	50	49	43	63
3	43	24	6.5	4.7	14	19	20	4.6	49	50	45	63
4	42	23	6.4	4.7	12	17	17	4.2	50	49	45	63
5	41	23	6.2	5.0	9.7	15	14	3.9	50	48	45	64
6	41	23	5.7	4.9	8.8	13	13	4.0	50	48	45	55
7	42	21	5.6	4.9	8.1	12	12	4.1	50	48	45	29
8	42	21	5.5	12	7.8	11	11	4.2	50	48	45	24
9	42	22	5.5	20	7.3	10	11	3.8	49	47	45	22
10	43	24	5.5	11	6.9	9.7	10	3.1	49	46	45	20
11	42	30	5.5	12	6.5	9.3	9.7	2.7	49	46	45	19
12	43	31	6.0	15	6.2	9.0	9.5	2.4	49	46	45	18
13	43	32	5.6	9.6	7.7	8.7	8.6	8.0	49	45	46	17
14	42	27	5.5	16	4.6	8.4	7.7	5.1	50	44	46	17
15	43	16	5.5	10.4	3.6	8.8	7.2	5.7	51	44	46	16
16	44	12	5.4	6.1	2.4	1.3	7.2	6.1	51	45	46	15
17	46	10	5.5	3.2	2.0	1.5	7.8	6.4	52	45	50	21
18	46	9.4	5.8	2.6	1.6	1.2	8.0	6.4	52	44	56	31
19	47	8.1	6.4	2.3	1.5	2.2	7.4	6.5	51	44	58	33
20	47	8.5	5.3	1.8	2.3	1.3	7.1	6.8	49	44	59	39
21	43	3.4	5.6	1.6	1.2	1.8	6.7	7.0	49	46	6.1	4.7
22	29	2.7	5.7	1.4	8.0	1.6	6.4	7.1	49	48	6.1	4.9
23	2.6	1.8	5.6	1.2	6.5	1.2	6.3	7.1	49	45	6.2	4.9
24	2.4	1.3	5.5	1.1	4.9	1.0	6.1	7.1	49	45	6.2	5.0
25	2.3	1.1	5.4	1.1	3.5	8.9	5.9	6.0	49	44	6.2	5.2
26	2.3	9.8	5.3	9.5	3.1	9.0	6.0	5.1	49	45	6.2	5.3
27	2.3	9.2	5.2	8.8	2.6	3.9	6.2	4.9	49	45	6.2	5.3
28	2.2	8.8	5.0	8.6	2.3	2.2	5.3	5.0	48	45	6.2	5.2
29	2.2	7.5	5.0	8.0	---	1.0	5.0	5.1	49	45	6.3	5.1
30	2.3	7.1	4.8	1.7	---	5.8	4.8	5.1	49	45	6.4	5.1
31	2.4	---	4.8	2.2	---	3.8	---	5.0	---	4.4	6.4	---
TOTAL	1153	558.4	175.4	531.3	746.0	812.8	300.9	1129.6	1489	1426	1628	1199
MEAN	37.2	18.6	5.66	17.1	26.6	26.2	10.0	36.4	49.6	46.0	52.5	40.0
MAX	49	3.4	7.1	10.4	1.2	2.2	3.0	7.1	5.2	5.0	6.4	6.4
MIN	2.2	7.1	4.8	4.7	6.2	8.4	4.8	2.4	4.8	4.4	4.3	1.5
AC-FT	2290	1110	348	1050	1480	1610	597	2240	2950	2830	3230	2380
CAL YR 1978	TOTAL	30344.6	MEAN	83.1	MAX	1260	MIN	3.9	AC-FT	60190		
WTR YR 1979	TOTAL	11149.4	MEAN	30.5	MAX	226	MIN	2.4	AC-FT	22110		

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 (5.6 km) southeast of Tres Pinos, and 6.2 mi (10.0 km) upstream from mouth.

DRAINAGE AREA.--206 mi² (534 km²).

PERIOD OF RECORD.--October 1939 to current year. Yearly estimate only for 1940 and monthly discharge only for some periods, published in WSP 1315-B.

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 (174 m), from topographic map.

REMARKS.--Records fair. 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).--40 years, 13.9 ft³/s (0.394 m³/s), 10,070 acre-ft/yr (12.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,060 ft³/s (228 m³/s) Apr. 4, 1941, gage height, 7.75 ft (2.362 m), from rating curve extended above 3,500 ft³/s (99.1 m³/s); maximum gage height, 9.88 ft (3.011 m) Feb. 11, 1973; no flow at times in 1952, 1957-61, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1938 reached a stage of about 9.0 ft (2.74 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 951 ft³/s (26.9 m³/s) Feb. 22 (1545 hrs), gage height, 6.65 ft (2.027 m), from rating curve extended above 53 ft³/s (1.50 m³/s) on basis of slope-area measurement at gage-height 9.49 ft (2.893 m), no other peak above base of 450 ft³/s (13 m³/s); minimum daily, 2.6 ft³/s (0.074 m³/s) Nov. 28 to Dec. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	3.5	2.6	3.0	3.6	20	9.7	4.0	3.4	19	18	3.5
2	10	3.5	2.6	3.0	3.8	16	11	4.1	6.3	19	18	3.4
3	10	3.6	2.7	3.1	3.6	7.9	10	4.1	14	19	18	3.4
4	10	3.7	2.8	3.2	3.7	5.4	9.4	4.6	16	18	17	3.3
5	9.9	3.7	2.8	3.2	3.7	4.4	9.0	5.4	15	18	17	3.1
6	9.9	3.7	3.0	3.2	3.7	4.2	8.8	5.2	14	19	17	2.9
7	10	3.7	2.9	3.2	3.7	4.1	8.6	5.0	16	18	17	2.9
8	10	3.7	3.0	3.6	3.7	4.1	8.5	4.8	18	18	17	2.9
9	10	3.7	3.0	3.4	3.7	4.0	8.8	4.7	19	18	16	2.9
10	10	3.7	3.0	3.4	3.8	4.0	9.4	4.4	18	19	16	2.8
11	6.6	3.7	3.0	3.7	3.6	4.0	9.3	4.3	21	20	16	2.8
12	3.3	3.7	3.2	3.5	3.3	4.0	8.3	4.3	22	20	16	2.8
13	3.1	3.7	3.2	3.5	3.3	4.0	5.3	4.1	21	20	16	2.8
14	3.1	3.7	3.2	4.0	6.2	4.0	5.9	4.1	22	20	16	2.8
15	3.2	3.7	3.3	26	9.0	4.1	3.9	4.0	21	19	16	2.8
16	3.2	3.8	3.4	15	6.1	5.0	3.7	3.8	19	19	16	2.8
17	3.3	3.7	3.5	4.8	5.6	7.2	3.7	3.7	20	19	16	2.8
18	3.2	3.6	3.5	4.6	4.9	5.5	3.6	3.6	19	19	16	2.8
19	3.2	3.5	3.4	4.8	7.1	11	6.4	3.6	20	19	16	2.8
20	3.3	3.5	3.2	3.5	9.7	11	3.5	3.6	19	19	16	2.8
21	3.4	4.3	3.3	3.5	337	7.2	3.6	3.6	19	20	16	2.8
22	3.5	3.2	3.2	3.4	129	5.4	3.6	3.6	19	20	16	2.9
23	3.5	3.0	3.2	3.4	186	4.3	3.6	3.6	19	19	16	2.9
24	3.5	2.9	3.2	3.4	55	3.7	3.7	3.6	19	20	16	2.9
25	3.5	2.8	3.2	3.2	26	3.6	3.7	3.6	19	19	15	2.9
26	3.5	2.8	3.2	3.3	18	3.7	3.8	3.4	19	19	13	2.9
27	3.5	2.7	3.2	3.5	13	16	3.7	3.3	19	19	13	2.9
28	3.5	2.6	3.2	3.5	8.6	155	3.7	3.4	19	18	13	2.9
29	3.5	2.6	3.2	3.5	---	66	3.9	3.4	19	18	10	2.9
30	3.5	2.6	3.2	3.7	---	18	4.0	3.3	19	18	8.6	2.9
31	3.5	---	3.0	3.7	---	11	---	3.3	---	18	6.7	---
TOTAL	173.7	102.6	96.4	143.8	868.4	427.8	184.1	123.5	533.7	587	474.3	88.0
MEAN	5.60	3.42	3.11	4.64	31.0	13.8	6.14	3.98	17.8	18.9	15.3	2.93
MAX	10	4.3	3.5	26	337	155	11	5.4	22	20	18	3.5
MIN	3.1	2.6	2.6	3.0	3.3	3.6	3.5	3.3	3.4	18	6.7	2.8
AC-FT	345	204	191	285	1720	849	365	245	1060	1160	941	175
CAL YR 1978	TOTAL	18847.07	MEAN	51.6	MAX	2980	MIN	.63	AC-FT	37380		
WTR YR 1979	TOTAL	3803.30	MEAN	10.4	MAX	337	MIN	2.6	AC-FT	7540		

11158500 SAN BENITO RIVER NEAR HOLLISTER, CA

LOCATION.--Lat 36°47'17", long 121°22'11", in SW¼ sec.24, T.13 S., R.5 E., San Benito County, Hydrologic Unit 18060002, on left bank 1,500 ft (457 m) downstream from Bird Creek, 0.9 mi (1.4 km) downstream from Tres Pinos Creek, 2.7 mi (4.3 km) west of Tres Pinos, and 4.8 mi (7.7 km) southeast of Hollister.

DRAINAGE AREA.--586 mi² (1,518 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 359.3 ft (109.51 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records fair except those for periods of no gage-height record, Apr. 7 to May 6, which are poor. Beginning in December 1961, flow regulated by Hernandez Reservoir 67 mi (108 km) upstream, capacity, 18,700 acre-ft (23.1 hm³). Several small diversions above station for irrigation.

AVERAGE DISCHARGE.--30 years, 29.7 ft³/s (0.841 m³/s), 21,520 acre-ft/yr (26.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft³/s (329 m³/s) Apr. 3, 1958, gage height, 16.30 ft (4.968 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of flood-routing study; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 931 ft³/s (26.4 m³/s) Feb. 21, gage height, 8.38 ft (2.554 m), from rating curve extended above 180 ft³/s (5.10 m³/s); minimum daily, 2.2 ft³/s (0.062 m³/s) Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	4.5	4.0	6.7	25	35	32	10	24	29	23	16
2	16	4.2	4.3	7.1	25	33	30	11	23	29	24	15
3	13	4.2	3.7	7.3	23	29	29	10	22	28	24	16
4	12	4.0	3.4	7.2	20	25	28	9.5	22	29	22	15
5	12	4.0	3.6	7.3	18	22	27	8.7	20	29	23	15
6	12	3.6	3.4	7.5	17	20	27	9.0	18	29	22	14
7	12	3.0	3.1	7.8	14	18	27	9.2	16	28	22	13
8	12	2.7	3.0	10	13	16	25	9.3	16	28	22	11
9	12	2.7	3.0	26	13	15	24	9.6	17	27	23	9.5
10	12	2.8	3.2	19	13	14	23	9.9	17	27	23	9.4
11	12	2.9	3.6	19	13	14	22	9.9	18	26	23	8.9
12	12	2.9	3.7	23	13	13	22	10	23	27	24	7.4
13	12	3.6	3.7	20	14	13	19	11	23	27	23	5.3
14	12	3.5	3.6	25	18	12	17	11	25	27	22	4.8
15	12	3.2	3.5	99	40	12	16	27	25	28	22	4.0
16	12	3.1	3.5	114	32	12	16	34	25	29	21	3.6
17	12	3.1	4.0	56	28	12	17	38	26	28	20	3.4
18	13	3.1	4.4	43	26	12	18	40	26	26	20	3.9
19	13	3.1	4.7	36	23	11	16	43	26	26	20	4.1
20	13	3.4	4.0	31	29	12	15	47	26	26	19	3.8
21	13	9.4	3.5	26	391	11	15	53	25	29	18	3.4
22	13	8.6	3.9	23	341	9.0	14	51	25	31	19	3.3
23	12	5.3	4.0	20	424	6.5	14	50	26	30	19	2.6
24	12	4.4	4.2	18	203	5.3	13	39	26	29	19	2.3
25	12	4.2	5.4	17	81	4.7	13	29	26	27	19	2.5
26	12	3.9	5.9	16	51	4.4	13	29	26	27	19	2.7
27	7.6	3.8	6.3	15	38	8.8	14	28	27	27	18	2.4
28	5.6	3.7	6.5	15	33	25.1	12	27	28	26	17	2.2
29	5.4	3.7	6.5	14	---	276	11	26	28	26	17	2.5
30	5.1	3.7	6.4	15	---	94	11	26	28	26	16	2.3
31	4.9	---	6.5	26	---	47	---	24	---	24	15	---
TOTAL	370.6	118.3	132.5	776.9	1979	1067.7	580	749.1	703	855	638	209.3
MEAN	12.0	3.94	4.27	25.1	70.7	34.4	19.3	24.2	23.4	27.6	20.6	6.98
MAX	32	9.4	6.5	114	424	276	32	53	28	31	24	16
MIN	4.9	2.7	3.0	6.7	13	4.4	11	8.7	16	24	15	2.2
AC-FT	735	235	263	1540	3930	2120	1150	1490	1390	1700	1270	415
CAL YR 1978	TOTAL	36752.93	MEAN	101	MAX	4000	MIN	.12	AC-FT	72900		
WTR YR 1979	TOTAL	8179.40	MEAN	22.4	MAX	424	MIN	2.2	AC-FT	16220		

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 (2.6 km) west of Hollister.

DRAINAGE AREA.--607 mi² (1,572 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 260 ft (79 m), from topographic map.

REMARKS.--Records poor. Flow regulated by Hernandez Reservoir 73 mi (117 km) upstream, capacity, 18,700 acre-ft (23.1 hm³). Some small diversions above station for irrigation.

AVERAGE DISCHARGE.--9 years, 25.8 ft³/s (0.731 m³/s), 18,690 acre-ft/yr (23.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,030 ft³/s (227 m³/s) Feb. 11, 1973, gage height, 9.18 ft (2.798 m), from rating curve extended above 2,400 ft³/s (68.0 m³/s); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 781 ft³/s (22.1 m³/s) Feb. 21, gage height, 5.09 ft (1.551 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	0		0	34	58	66	0	2.3	23	8.3	6.2
2	7.0	0		0	34	71	53	0	2.0	24	8.0	6.4
3	5.5	0		0	29	30	40	0	1.8	24	9.7	7.6
4	4.7	0		0	21	13	32	0	1.7	21	9.3	9.0
5	4.6	0		0	17	7.9	23	0	1.5	22	9.2	9.0
6	4.6	0		0	12	5.6	22	0	1.4	18	10	8.6
7	4.6	0		0	8.6	3.9	21	0	1.3	15	11	6.1
8	4.6	0		.81	6.2	2.6	14	0	1.1	21	11	5.4
9	4.7	0		1.6	5.4	1.8	12	0	1.1	18	12	4.6
10	4.7	0		1.7	4.7	1.7	11	0	1.0	17	13	4.2
11	4.7	0		3.4	4.4	1.7	8.8	0	3.0	14	13	3.5
12	4.6	0		1.9	4.0	1.4	7.4	0	5.0	14	14	3.0
13	4.6	0		1.7	7.3	1.3	5.5	0	7.9	15	14	2.5
14	4.6	0		4.2	18	1.2	4.0	0	11	11	13	1.3
15	4.5	0		42	53	4.0	2.7	0	12	11	13	.04
16	4.3	0		111	55	10	1.6	11	13	14	12	0
17	4.2	0		41	36	25	.90	25	16	13	11	0
18	4.2	0		21	31	42	.50	33	19	8.9	10	0
19	4.3	0		17	26	25	.25	35	19	19	12	0
20	4.5	.10		13	41	38	.13	39	14	10	10	0
21	4.7	2.3		12	354	15	.07	48	15	15	8.1	0
22	4.7	.88		12	506	8.7	.04	47	13	23	8.5	0
23	4.7	.02		12	554	5.6	.03	40	15	21	9.4	0
24	4.7	0		14	443	3.5	.02	22	18	17	10	0
25	4.7	0		15	228	2.5	.01	9.7	15	14	9.4	0
26	4.7	0		13	129	2.4	.01	6.4	14	13	12	0
27	.10	0		11	94	19	0	5.1	15	13	9.7	0
28	0	0		10	58	297	0	4.3	13	13	6.4	0
29	0	0		10	---	431	0	4.0	15	14	8.2	0
30	0	0		10	---	198	0	3.4	20	12	7.1	0
31	0	---		32	---	100	---	2.9	---	10	6.2	---
TOTAL	141.80	3.30	0	411.31	2813.6	1427.8	325.96	335.8	288.1	497.9	318.5	77.44
MEAN	4.57	.11	0	13.3	100	46.1	10.9	10.8	9.60	16.1	10.3	2.58
MAX	24	2.3	0	111	554	431	66	48	20	24	14	9.0
MIN	0	0	0	0	4.0	1.2	0	0	1.0	8.9	6.2	0
AC-FT	281	6.5	0	816	5580	2830	647	666	571	988	632	154
CAL YR 1978 TOTAL	38951.58			MEAN 107	MAX 4000	MIN 0	AC-FT 77260					
WTR YR 1979 TOTAL	6641.51			MEAN 18.2	MAX 554	MIN 0	AC-FT 13170					

11158900 PESCADERO CREEK NEAR CHITTENDEN, CA

LOCATION.--Lat 36°54'28", long 121°35'04", on west boundary of Juristac Grant, Santa Clara County, Hydrologic Unit 18060002, on left bank 0.2 mi (0.3 km) downstream from small left-bank tributary, 0.6 mi (1.0 km) upstream from mouth, and 1.2 mi (1.9 km) northwest of Chittenden.

DRAINAGE AREA.--10.2 mi² (26.4 km²).

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

GAGE.--Water-stage recorder and rain gage. Datum of gage is 124.13 ft (37.835 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--9 years, 2.90 ft³/s (0.082 m³/s), 2,100 acre-ft/yr (2.59 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 326 ft³/s (9.23 m³/s) Nov. 14, 1972, gage height, 7.08 ft (2.158 m), from rating curve extended above 150 ft³/s (4.25 m³/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 115 ft³/s (3.26 m³/s) Feb. 21 (1100 hrs), gage height, 5.06 ft (1.542 m), no other peak above base of 70 ft³/s (2.0 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.04	.13	.40	.38	8.1	3.6	1.5	2.0	.04	0	.01
2	0	.05	.09	.51	.39	5.1	3.3	1.1	1.8	.05	0	.01
3	0	.06	.14	.67	.28	4.3	3.1	1.0	1.7	.05	0	.01
4	0	.06	.24	3.6	.28	3.6	2.8	1.82	1.6	.03	0	.01
5	0	.06	.24	8.7	.28	3.1	2.2	1.1	1.4	.02	0	.01
6	0	.06	.22	3.3	.29	3.1	2.3	1.1	1.1	.02	0	.01
7	0	.04	.23	24	.32	3.0	2.2	1.0	.89	.02	0	0
8	0	.05	.22	11	.32	2.6	1.9	.96	.75	.01	.04	0
9	0	.06	.18	2.7	.35	2.2	1.5	.98	.63	.01	.06	.01
10	0	.08	.20	10	.40	2.2	1.3	.93	.48	.01	.07	0
11	0	.06	.20	21	.40	2.2	1.2	.75	.43	.01	.10	0
12	0	.08	.26	10	.40	2.2	1.1	.69	.36	.01	.10	0
13	0	.20	.29	17	2.5	2.0	1.1	.68	.34	.02	.07	0
14	0	.18	.28	29	12	2.2	1.1	.67	.37	.02	.06	0
15	0	.13	.29	50	3.9	2.8	1.1	.68	.28	.03	.05	0
16	0	.13	.41	6.0	8.3	3.9	1.2	.48	.27	.02	.04	0
17	0	.13	.55	2.9	5.8	4.1	1.3	.48	.19	.03	.03	0
18	0	.09	2.8	2.2	5.8	3.1	.88	.55	.13	.02	.03	0
19	0	.09	1.4	.97	9.9	3.1	.78	.55	.09	.02	.03	0
20	.01	.41	.56	.71	23	3.0	.78	.49	.07	.02	.02	0
21	.01	1.5	.56	.56	58	2.2	.78	.56	.07	.03	.02	0
22	.01	.58	.56	.44	42	2.2	.98	1.7	.05	.14	.01	0
23	.01	.28	.56	.40	39	2.2	1.1	3.3	.04	.17	.01	0
24	.01	.15	.56	.37	19	2.2	1.2	3.1	.05	.07	.01	0
25	.01	.09	.56	.28	13	2.0	1.3	2.9	.06	.03	.02	0
26	.02	.08	.57	.25	10	2.1	2.2	2.8	.05	.02	.02	0
27	.02	.08	.56	.20	7.6	4.3	1.9	2.5	.04	.02	.01	0
28	.03	.08	.56	.25	6.4	6.7	1.9	2.2	.05	.01	.01	0
29	.03	.08	.48	.20	---	6.0	1.9	2.0	.05	.01	.01	0
30	.03	.08	.40	.32	---	4.1	1.8	2.4	.04	0	.01	0
31	.03	---	.40	.42	---	3.7	---	2.2	---	0	.01	---
TOTAL	.22	5.06	14.70	208.35	270.29	103.6	49.80	42.17	15.38	.96	.84	.07
MEAN	.007	.17	.47	6.72	9.65	3.34	1.66	1.36	.51	.031	.027	.002
MAX	.03	1.5	2.8	50	58	8.1	3.6	3.3	2.0	.17	.10	.01
MIN	0	.04	.09	.20	.28	2.0	.78	.48	.04	0	0	0
AC-FT	.4	10	29	413	536	205	99	84	31	1.9	1.7	.1
(†)	0	2.52	1.22	1.86	3.70	1.91	.55	.18	0	.14	0	0
CAL YR 1978 TOTAL	1438.81			MEAN 3.94	MAX 142	MIN 0	AC-FT 2850					
WTR YR 1979 TOTAL	711.44			MEAN 1.95	MAX 58	MIN 0	AC-FT 1410					

† Precipitation, in inches.

PAJARO RIVER BASIN

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 (1.0 km) downstream from Pescadero Creek, 0.6 mi (1.0 km) southeast of Chittenden, and 2.3 mi (3.7 km) downstream from San Benito River.

DRAINAGE AREA.--1,186 mi² (3,072 km²).

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 (25.079 m) National Geodetic Vertical Datum of 1929. Prior to May 13, 1949, nonrecording gage on former bridge 100 ft (30 m) downstream at same datum except that water-stage recorder, also 100 ft (30 m) downstream and at same datum, was used Dec. 20, 1946, to June 11, 1947, June 21 to Sept. 23, 1947, and Dec. 19, 1947, to May 6, 1948. 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 (23.1 hm³), Pacheco Lake, capacity, 6,150 acre-ft (7.58 hm³), Chesbro Reservoir (station 11153480), Uvas Reservoir (station 11154020), and San Felipe Lake. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--40 years, 139 ft³/s (3.936 m³/s), 100,700 acre-ft/yr (124 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,000 ft³/s (680 m³/s) Dec. 24, 1955, gage height, 32.46 ft (9.894 m), from rating curve extended above 8,300 ft³/s (235 m³/s) on basis of slope-conveyance study; maximum gage height, 33.11 ft (10.092 m) Apr. 3, 1958; no flow at times in July, August 1948.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1938, reached a stage of 31.3 ft (9.54 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,130 ft³/s (60.3 m³/s) Feb. 23, gage height, 10.06 ft (3.066 m); minimum daily, 0.76 ft³/s (0.022 m³/s) Nov. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.2	4.9	2.0	40	331	255	15	12	6.2	6.8	3.2
2	1.7	1.3	2.7	2.0	34	271	219	16	13	4.9	7.2	3.5
3	1.7	1.1	2.0	2.1	26	206	184	14	11	4.7	6.6	3.2
4	1.8	1.0	1.8	2.1	17	135	153	13	10	5.0	6.1	2.1
5	1.6	.89	1.7	2.2	13	104	133	13	10	6.0	5.8	2.0
6	1.8	.86	1.6	2.2	10	87	120	15	11	6.1	5.7	2.1
7	2.5	.83	1.5	2.2	7.7	78	110	15	10	5.9	5.1	2.9
8	2.7	.80	1.5	7.0	6.9	77	93	15	10	6.3	5.6	3.0
9	2.5	.76	1.6	61	6.4	76	76	13	10	5.5	6.7	3.2
10	2.5	.78	1.6	32	6.6	65	65	12	9.3	5.8	6.2	3.5
11	2.7	.79	1.6	97	7.4	50	50	11	8.2	6.9	4.7	3.3
12	4.0	.85	1.6	205	7.0	43	39	10	8.4	8.3	5.1	3.5
13	3.5	.92	1.6	85	17	39	31	10	8.3	6.7	5.0	4.7
14	2.3	.84	1.7	131	165	34	25	9.3	9.1	6.0	4.4	5.8
15	1.9	.79	1.7	322	188	35	22	9.4	8.8	6.2	3.7	10
16	2.1	.82	1.7	252	171	42	19	10	8.4	5.6	3.5	11
17	2.1	.88	1.9	184	192	45	17	11	8.8	4.6	3.9	8.2
18	2.6	.87	3.4	113	132	38	15	11	8.6	4.3	6.0	5.3
19	2.3	.85	3.4	81	208	38	15	9.8	5.9	3.8	8.3	4.5
20	2.0	1.6	3.7	63	237	41	18	9.2	5.8	4.2	6.5	3.6
21	2.4	11	3.2	50	1190	48	17	9.3	7.7	5.7	4.6	3.7
22	2.5	24	2.7	42	1470	40	17	10	7.2	8.0	3.8	4.3
23	1.9	13	2.5	35	1900	37	16	11	6.9	7.1	2.9	4.7
24	1.5	6.5	2.3	30	1330	35	15	11	7.6	7.0	3.0	4.0
25	1.4	3.2	2.1	27	922	33	16	10	8.0	5.9	3.4	3.7
26	1.7	2.2	2.0	24	700	32	18	9.4	8.1	4.9	3.7	3.2
27	1.6	2.0	2.0	22	510	41	22	9.0	8.0	5.1	3.3	3.0
28	1.3	1.8	2.1	21	386	283	18	10	6.7	6.1	2.8	3.3
29	1.1	3.5	2.1	21	---	567	16	11	6.6	5.4	3.8	4.0
30	1.0	6.2	2.0	21	---	366	17	11	7.7	5.0	4.4	3.7
31	1.0	---	2.0	25	---	309	---	12	---	5.2	4.0	---
TOTAL	63.2	92.13	68.2	1965.8	9900.0	3626	1831	355.4	261.1	178.4	152.6	126.2
MEAN	2.04	3.07	2.20	63.4	354	117	61.0	11.5	8.70	5.75	4.92	4.21
MAX	4.0	24	4.9	322	1900	567	255	16	13	8.3	8.3	11
MIN	1.0	.76	1.5	2.0	6.4	32	15	9.0	5.8	3.8	2.8	2.0
AC-FT	125	183	135	3900	19640	7190	3630	705	518	354	303	250
CAL YR 1978	TOTAL	90359.23	MEAN	248	MAX	7660	MIN	.76	AC-FT	179200		
WTR YR 1979	TOTAL	18620.03	MEAN	51.0	MAX	1900	MIN	.76	AC-FT	36930		

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 to current year.
 SPECIFIC CONDUCTANCE: Water years 1978 to current year.
 WATER TEMPERATURES: Water years 1978 to current year.
 SEDIMENT RECORDS: Water years 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1978 to current year.
 WATER TEMPERATURES: May 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1978.

REMARKS.--Difference between recorder values before adjustment and field measurement values exceeded ± 10 percent micromhos for specific conductance and $\pm 1.0^\circ\text{C}$ for water temperature at times during the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,940 micromhos Nov. 11, 1978; minimum recorded, 526 micromhos Feb. 21, 1979.
 WATER TEMPERATURES: Maximum recorded, 30°C May 30, 1978; minimum recorded, 2°C Dec. 26, 1978.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,940 micromhos Nov. 11; minimum recorded, 526 micromhos Feb. 21.
 WATER TEMPERATURES: Maximum recorded, 23°C Sept. 18, 19; minimum recorded, 2°C Dec. 26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT										
18...	1100	2.8	1790	8.0	14.0	2.0	9.7	300	170	520
NOV										
14...	1200	.87	2462	7.9	7.5	1.2	12.3	K70	100	580
DEC										
19...	1100	3.2	2250	7.9	6.5	1.5	11.1	73	180	480
JAN										
16...	1300	175	899	7.6	9.0	160	10.0	1400	K14000	270
FEB										
13...	1030	7.6	2180	7.9	12.0	7.3	10.7	130	K110	660
MAR										
13...	1030	38	1340	7.7	15.5	3.6	9.0	120	230	380
APR										
19...	1130	15	1820	8.2	15.0	20	10.0	67	K41	590
MAY										
17...	1030	10	1850	7.7	15.0	2.0	9.2	280	220	630
JUN										
20...	1200	5.7	1840	8.2	19.0	3.2	11.6	>600	1700	620
JUL										
11...	1215	7.6	1640	8.3	21.5	8.4	--	340	740	570
AUG										
21...	1100	4.8	1660	8.3	19.0	1.8	8.3	250	310	460
SEP										
10...	1000	3.7	2030	8.0	17.0	5.2	7.7	140	520	620

DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT										
18...	50	78	79	200	45	3.8	4.3	470	220	180
NOV										
14...	100	100	81	300	53	5.4	4.7	480	130	440
DEC										
19...	61	79	69	290	56	5.8	7.0	420	270	310
JAN										
16...	100	44	40	100	44	2.6	4.6	170	230	66
FEB										
13...	270	100	100	260	46	4.4	3.4	390	520	250
MAR										
13...	110	45	65	120	41	2.7	2.3	270	250	89
APR										
19...	180	89	90	180	40	3.2	3.5	410	340	170
MAY										
17...	200	110	87	180	38	3.1	3.1	430	310	160
JUN										
20...	200	100	90	190	40	3.3	4.2	420	320	190
JUL										
11...	160	96	80	160	38	2.9	4.3	410	290	140
AUG										
21...	37	71	68	180	46	3.7	4.5	420	220	170
SEP										
10...	180	86	98	260	48	4.6	4.5	440	390	210

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

PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS S102)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 18...	.5	16	1110	1090	1.51	8.39	.63	--	.01
NOV 14...	.3	22	1360	1370	1.85	3.19	.30	--	.11
DEC 19...	.3	16	1360	1290	1.85	12.5	.22	--	.05
JAN 16...	.3	13	601	600	.82	409	2.3	--	.02
FEB 13...	.3	13	1470	1480	2.00	30.2	5.6	--	.18
MAR 13...	.3	18	858	752	1.17	89.0	4.8	--	.07
APR 19...	.4	19	1230	1140	1.67	49.8	5.1	--	.09
MAY 17...	.3	18	1180	1130	1.60	33.8	5.0	--	.03
JUN 20...	.4	19	1190	1170	1.62	18.3	8.3	--	.02
JUL 11...	.4	8.1	1070	1030	1.46	22.1	7.0	--	.07
AUG 21...	.4	3.2	1050	970	1.43	13.6	2.7	--	.13
SEP 10...	.4	23	1330	1340	1.81	13.3	1.3	1.2	.09

DATE	NITRO- GEN, ORGANIC TOTAL (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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
OCT 18...	1.7	1.7	1.7	2.3	.17	.13	--	6.3	1.1
NOV 14...	.55	.66	.54	.96	.09	.08	4.6	--	--
DEC 19...	.67	.72	.56	.94	.23	.19	6.6	--	--
JAN 16...	1.4	1.4	.95	3.7	.47	.20	--	7.9	1.9
FEB 13...	1.6	1.8	1.7	7.4	.11	.07	5.5	--	--
MAR 13...	.59	.66	.63	5.5	.07	.06	4.4	--	--
APR 19...	.80	.89	.68	6.0	.16	.14	--	9.6	--
MAY 17...	1.4	1.4	.83	6.4	.16	.09	5.9	--	--
JUN 20...	1.4	1.4	.67	9.7	.24	.23	14	--	--
JUL 11...	1.0	1.1	.97	8.1	.35	.25	--	8.1	1.1
AUG 21...	2.2	2.3	.90	5.0	.31	.30	19	--	--
SEP 10...	.91	1.0	.52	2.3	.35	.32	10	--	--

DATE	TIME	ARSENIC, TOTAL (UG/L AS AS)	ARSENIC, DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
OCT 18...	1100	4	5	200	100	0	0	0	0
JAN 16...	1300	3	2	600	200	1	0	0	10
APR 19...	1130	3	2	200	200	0	<1	10	10
JUL 11...	1215	7	4	100	100	1	--	10	10

PAJARO RIVER BASIN

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11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	CORALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
OCT 18...	0	0	7	5	260	20	1	0	160
JAN 16...	9	2	26	22	14000	40	15	2	360
APR 19...	0	<3	12	3	1200	10	21	0	240
JUL 11...	0	<3	67	2	680	470	9	0	130

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 18...	60	.0	.0	0	0	0	0	30	20
JAN 16...	30	.1	.0	1	1	1	0	70	20
APR 19...	200	.0	.0	0	0	0	0	30	<3
JUL 11...	50	.1	.2	2	2	0	0	60	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	NOV 14,78 1200	MAR 13,79 1030	MAY 17,79 1030	JUN 20,79 1200	AUG 21,79 1100	SEP 10,79 1000
TOTAL CELLS/ML	520	1700	15000	2400	7100	4200
DIVERSITY: DIVISION	0.7	2.0	1.7	1.6	1.5	1.7
..CLASS	0.7	2.0	1.7	1.6	1.5	1.7
...ORDER	0.7	2.5	2.0	2.1	2.3	2.2
...FAMILY	2.5	2.8	2.0	2.5	2.5	2.7
....GENUS	3.1	0.0	2.4	2.5	2.6	2.9

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON--Continued

ORGANISM	CELLS /ML	PER- CENT										
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
...CHLOROCOCCACEAE												
...CHLOROCOCCUM	--	-	--	-	--	-	--	-	--	-	55	1
...COELASTRACEAE												
...COELASTRUM	--	-	--	-	--	-	--	-	--	-	220	5
...MICRACTINIACEAE												
...MICRACTINIUM	--	-	--	-	--	-	81	3	--	-	--	-
...OOCYSTACEAE												
...ANKISTRODESMUS	--	-	190	11	260	2	--	-	50	1	140	3
...CHLORELLA	--	-	--	-	--	-	--	-	--	-	82	2
...DICTYOSPHAERIUM	--	-	58	3	--	-	--	-	--	-	--	-
...KIRCHNERIELLA	--	-	72	4	--	-	--	-	--	-	--	-
...OOCYSTIS	--	-	58	3	--	-	--	-	50	1	--	-
...SELENASTRUM	--	-	--	-	130	1	40	2	--	-	--	-
...TETRAEDRON	--	-	14	1	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
...ACTINASTRUM	--	-	--	-	--	-	--	-	400	6	--	-
...SCENEDESMUS	58	11	58	3	--	-	81	3	100	1	55	1
...VOLVOCALES												
...CHLAMYDOMONADACEAE			86	5								
...CHLAMYDOMONAS	--	-	--	-	6200#	40	--	-	400	6	82	2
...CHLOROGONIUM	--	-	--	-	130	1	--	-	--	-	--	-
...PLATYMONAS	--	-	--	-	--	-	--	-	--	-	82	2
...VOLVOCAEAE												
...PANDORINA	--	-	--	-	--	-	--	-	810	11	--	-
CHRYSOPHYTA												
..BACILLARIOPHYCEAE												
...CENTRALES												
...COSCINODISCACEAE												
...CYCLOTELLA	--	-	43	3	3900#	25	1100#	47	3200#	45	1600#	38
...MELOSIRA	--	-	130	8	1500	10	--	-	--	-	--	-
...RHIZOSOLENACEAE												
...RHIZOSOLENIA	--	-	14	1	--	-	--	-	--	-	--	-
...PENNALES												
...ACHNANTHACEAE												
...ACHNANTHES	43	8	--	-	--	-	--	-	--	-	140	3
...COCCONEIS	87#	17	--	-	--	-	20	1	--	-	27	1
...RHODICOSPHENIA	14	3	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE												
...AMPHORA	14	3	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE												
...FRAGILARIA	87#	17	--	-	--	-	--	-	--	-	27	1
...SYNEDRA	14	3	--	-	--	-	--	-	--	-	27	1
...GOMPHONEMACEAE												
...GOMPHONEMA	29	6	--	-	--	-	20	1	--	-	27	1
...NAVICULACEAE												
...DIPLONEIS	14	3	--	-	--	-	--	-	--	-	--	-
...GYROSIGMA	--	-	--	-	--	-	20	1	--	-	--	-
...NAVICULA	130#	25	43	3	--	-	260	11	--	-	140	3
...NITZSCHIACEAE												
...NITZSCHIA	14	3	200	12	390	3	100	4	960	13	140	3
...SURIRELLACEAE												
...SURIRELLA	--	-	29	2	--	-	--	-	--	-	--	-
..CHRYSOPHYCEAE												
...CHRYSOMONADALES												
...OCHROMONADACEAE												
...OCHROMONAS	--	-	--	-	--	-	--	-	50	1	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
..CRYPTOPHYCEAE												
...CRYPTOMONADALES												
...CRYPTOCHRYSIDACEAE												
...CHROOMONAS	--	-	--	-	--	-	--	-	--	-	27	1
...CRYPTOMONADACEAE												
...CRYPTOMONAS	--	-	72	4	510	3	40	2	--	-	55	1
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
...ANACYSTIS	--	-	--	-	510	3	380#	16	400	6	--	-
...HORMOGONALES												
...OSCILLATORIACEAE												
...LYNGBYA	--	-	120	7	--	-	--	-	--	-	--	-
...OSCILLATORIA	--	-	400#	24	--	-	--	-	--	-	--	-
...SCHIZOTHRIX	--	-	--	-	--	-	--	-	--	-	1200#	28
...RIVULARIACEAE												
...RAPHIDIOPSIS	--	-	--	-	--	-	--	-	550	8	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
...EUGLENA	14	3	29	2	1700	11	240	10	150	2	27	1
...PHACUS	--	-	14	1	130	1	--	-	--	-	27	1
...TRACHELONAS	--	-	58	3	--	-	--	-	--	-	27	1

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

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

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

		PERIPHYTON						
DATE	TIME	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS)	
NOV 14...	1200	27	2.28	1.65	9.48	1.48	--	
APR 19...	1130	37	4.16	3.45	.548	.000	1296	
MAY 17...	1030	28	11.4	10.3	15.2	2.70	72.4	
JUL 11...	1215	21	30.7	26.4	69.0	27.3	62.3	
AUG 21...	1100	41	2.52	2.20	3.59	.110	89.1	

SPECIFIC CONDUCTANCE (MICROMHUS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2600	2130	2290	2390	2040	2190	2440	2300	2380	---	---	---
2	2220	2030	2140	2300	2090	2170	2430	2260	2370	---	---	---
3	2250	2060	2160	2440	2230	2310	2410	2280	2360	---	---	---
4	2260	2060	2150	2540	2380	2440	2440	2270	2370	---	---	---
5	2260	2110	2180	2610	2420	2530	2470	2330	2390	---	---	---
6	2230	1990	2080	2620	2460	2570	2630	2500	2580	---	---	---
7	2070	1860	1940	2750	2530	2620	2670	2530	2620	2790	2620	2710
8	1940	1860	1910	---	---	---	2650	2520	2610	2720	831	2170
9	1970	1860	1920	2930	2670	2780	2640	2510	2580	2250	1760	2030
10	1940	1760	1870	2940	2760	2830	2590	2450	2540	1890	1370	1520
11	1920	1760	1840	2940	2680	2780	2530	2440	2510	1460	808	1150
12	1870	1680	1770	2820	2390	2690	2520	2430	2480	1280	622	956
13	1910	1770	1830	2660	2180	2470	2510	2380	2460	1050	846	960
14	2030	1890	1940	2660	2430	2560	2500	2320	2440	1190	951	1070
15	2030	1890	1970	2650	2450	2580	2490	2310	2430	1150	696	855
16	2030	1470	1920	2640	2540	2600	2470	2340	2420	1340	750	945
17	2060	1840	1950	2630	2530	2600	2420	2330	2390	1080	938	1000
18	1900	1740	1810	2620	2520	2590	2360	2280	2340	1250	1050	1130
19	1900	1840	1870	2610	2540	2580	2310	1880	2100	1420	1250	1320
20	1950	1870	1910	2560	1090	2500	2040	1820	1930	1540	1400	1470
21	1960	1690	1820	1890	1550	1730	2220	2020	2100	1670	1510	1560
22	1920	1730	1820	1960	1800	1870	2340	2170	2260	1750	1630	1690
23	2090	1890	1970	2050	1850	1960	2490	2280	2400	1900	1680	1800
24	2250	2120	2170	2220	1960	2080	2590	2410	2520	2010	1880	1930
25	2290	2050	2170	2370	2180	2260	2690	2470	2600	2160	1900	2020
26	2110	1920	2000	2490	2300	2390	---	---	---	2370	2110	2210
27	2220	2060	2100	2560	2420	2490	2710	2580	2630	2500	2160	2390
28	2410	2120	2230	2590	2440	2540	2680	2500	2580	2560	2430	2490
29	2480	2230	2360	2580	2430	2530	2730	2560	2640	2600	2490	2560
30	2580	2420	2480	2530	2380	2460	---	---	---	2600	2420	2550
31	2620	2390	2490	---	---	---	---	---	---	2600	2450	2530
MONTH	2620	1680	2030	2940	1090	2440	2730	1820	2430	2790	622	1720

PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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
OCT							
18...	1130	14.0	2.9	23	.16	--	--
NOV							
14...	1225	7.5	.84	17	.04	--	--
DEC							
19...	1100	6.5	3.2	15	.14	--	--
JAN							
16...	1300	9.0	175	355	242	52	62
FEB							
13...	1000	12.0	7.5	36	1.7	--	--
MAR							
13...	1200	15.5	38	47	4.9	--	--
APR							
19...	1115	15.0	15	130	5.3	24	28
MAY							
17...	1015	15.0	10	95	2.8	--	--
JUN							
20...	1135	19.0	5.8	15	.23	--	--
JUL							
11...	1220	21.5	7.5	34	.63	--	--
AUG							
21...	1200	21.0	4.8	32	.40	--	--
SEP							
11...	1120	18.5	3.8	44	.39	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
OCT							
18...	--	--	--	45	--	--	--
NOV							
14...	--	--	--	26	--	--	--
DEC							
19...	--	--	--	50	--	--	--
JAN							
16...	71	79	86	88	92	99	100
FEB							
13...	--	--	--	75	--	--	--
MAR							
13...	--	--	--	98	100	--	--
APR							
19...	33	45	62	72	87	95	100
MAY							
17...	--	--	--	11	--	--	--
JUN							
20...	--	--	--	27	--	--	--
JUL							
11...	--	--	--	88	90	96	100
AUG							
21...	--	--	--	54	--	--	--
SEP							
11...	--	--	--	52	--	--	--

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 (0.3 km) north of Freedom, and 2.3 mi (3.7 km) north of Watsonville.

DRAINAGE AREA.--27.8 mi² (72.0 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 80 ft (24 m), from topographic map.

REMARKS.--Records fair. No regulation; Watsonville Water Works can divert up to 8.0 ft³/s (0.23 m³/s) daily above station for municipal supply, domestic use, and irrigation.

AVERAGE DISCHARGE.--23 years, 13.9 ft³/s (0.394 m³/s), 10,070 acre-ft/yr (12.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,680 (75.9 m³/s) Apr. 2, 1958, gage height, 12.59 ft (3.837 m); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 15.6 ft (4.75 m), from floodmarks, discharge, 3,620 ft³/s (103 m³/s), on basis of contracted-opening measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 413 ft³/s (11.7 m³/s) Feb. 22, gage height, 4.56 ft (1.390 m), no peak above base of 600 ft³/s (17 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	0	5.9	61	25	2.9	.69	0	0	0
2		0	0	0	6.0	42	22	2.6	.84	0	0	0
3		0	0	0	4.7	35	18	2.6	.71	0	0	0
4		0	0	0	4.4	31	15	2.2	.68	0	0	0
5		0	0	0	3.9	26	13	3.8	.60	0	0	0
6		0	0	0	3.2	23	17	8.3	.02	0	0	0
7		0	0	0	1.5	22	16	8.9	0	0	0	.02
8		0	0	52	1.6	20	14	7.6	0	0	0	.02
9		0	0	34	1.3	18	11	5.6	0	0	0	0
10		0	0	7.8	1.2	16	10	2.7	0	0	0	0
11		0	0	166	1.1	13	8.8	2.0	0	0	0	0
12		0	0	65	.85	12	8.6	1.4	.02	0	0	0
13		0	0	28	79	11	6.9	1.0	0	0	0	0
14		0	0	101	156	8.9	6.1	.90	0	0	0	0
15		0	0	154	69	11	6.0	.89	0	0	0	0
16		0	.82	59	116	19	6.9	1.3	0	0	0	0
17		0	1.1	36	76	16	9.7	1.1	0	0	0	.02
18		0	19	25	84	14	8.3	.78	0	0	0	.01
19		0	7.8	19	82	13	6.6	.64	0	0	0	0
20		17	4.4	15	145	11	4.5	.59	0	0	0	0
21		19	.83	12	223	10	4.1	.56	0	0	0	0
22		39	.07	10	230	10	3.6	.54	.01	0	0	0
23		7.5	.03	8.5	193	8.9	9.3	.48	0	0	0	0
24		3.1	0	7.7	115	7.3	8.3	.49	0	0	0	0
25		1.4	0	6.0	76	6.9	6.1	.52	0	0	0	0
26		.71	0	3.8	62	8.9	6.2	.54	0	0	0	0
27		.43	0	3.1	49	34	7.9	.48	0	0	.04	0
28		.20	0	3.2	46	66	6.1	.21	0	0	0	0
29		.03	.01	2.6	---	55	3.8	.16	0	0	.03	0
30		0	0	7.6	---	38	3.6	.18	0	0	0	0
31		---	0	7.9	---	30	---	.21	---	0	0	---
TOTAL	0	88.37	34.06	834.2	1836.65	697.9	292.4	62.17	3.57	0	.07	.07
MEAN	0	2.95	1.10	26.9	65.6	22.5	9.75	2.01	.12	0	.002	.002
MAX	0	39	19	166	230	66	25	8.9	.84	0	.04	.02
MIN	0	0	0	0	.85	6.9	3.6	.16	0	0	0	0
AC-FT	0	175	68	1650	3640	1380	580	123	7.1	0	.1	.1
CAL YR 1978	TOTAL	8713.85	MEAN	23.9	MAX	596	MIN	0	AC-FT	17280		
WTR YR 1979	TOTAL	3849.46	MEAN	10.5	MAX	230	MIN	0	AC-FT	7640		

APTOS CREEK BASIN

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 (0.6 km) downstream from small right-bank tributary, and 1.7 mi (2.7 km) north of Aptos.

DRAINAGE AREA.--10.2 mi² (26.4 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 160 ft (49 m), from topographic map.

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

AVERAGE DISCHARGE.--8 years, 6.92 ft³/s (0.196 m³/s), 5,010 acre-ft/yr (6.18 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft³/s (34.0 m³/s) Jan. 16, 1973, gage height, 5.65 ft (1.722 m), from rating curve extended above 340 ft³/s (9.63 m³/s); minimum daily, 0.36 ft³/s (0.010 m³/s) July 30 to Aug. 2, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.8 m³/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 11	1415	149	4.22	2.36	0.719	Feb. 13	2100	*192	5.44	2.56	0.780
Jan. 14	2315	119	3.37	2.20	.671						

Minimum daily discharge, 0.88 ft³/s (0.025 m³/s) Nov. 1-11, Dec. 6-16, Sept. 16-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.88	1.2	1.2	2.5	18	15	4.1	2.3	1.5	1.1	1.1
2	1.0	.88	1.2	1.2	2.4	15	13	3.9	2.3	1.5	1.0	1.1
3	.98	.88	1.1	1.3	2.3	13	11	3.9	2.0	1.5	.98	1.1
4	.98	.88	1.1	1.3	2.1	11	11	3.7	2.0	1.5	.98	1.1
5	.98	.88	1.0	1.3	2.0	10	9.8	4.3	2.0	1.5	.98	1.1
6	.98	.88	.88	1.4	2.0	9.4	11	4.4	2.0	1.5	.99	1.1
7	.98	.88	.88	1.5	1.8	8.8	9.7	4.3	1.8	1.4	1.3	1.1
8	.98	.88	.88	11	1.8	8.1	9.0	3.9	1.8	1.4	1.4	1.0
9	.98	.88	.88	10	1.7	7.3	8.4	3.7	1.7	1.5	1.4	.98
10	.98	.88	.88	5.0	1.7	7.0	8.0	3.5	1.7	1.5	1.4	.98
11	.98	.88	.88	55	1.9	6.6	7.8	3.3	1.7	1.5	1.4	.98
12	.98	1.3	.88	18	1.6	6.2	7.2	3.0	1.5	1.5	1.4	.98
13	.98	2.3	.88	7.7	44	5.8	6.8	3.0	1.5	1.4	1.4	.98
14	.98	1.3	.88	47	47	5.4	6.5	2.8	1.5	1.4	1.4	.98
15	.98	1.1	.88	48	16	6.1	6.2	2.8	1.5	1.4	1.4	.98
16	.98	1.1	.88	15	27	6.9	6.0	2.8	1.5	1.4	1.4	.88
17	.98	1.1	1.6	9.2	19	6.6	6.1	2.8	1.6	1.4	1.4	.88
18	.98	1.1	4.0	7.3	16	5.7	5.8	2.6	1.7	1.4	1.4	.88
19	.91	1.2	2.5	5.7	20	5.4	5.6	2.6	1.7	1.2	1.4	.88
20	.94	5.4	1.7	4.9	36	5.1	5.4	2.6	1.7	1.2	1.4	.88
21	.98	4.1	1.5	4.4	50	5.0	5.2	2.6	1.7	1.6	1.4	.88
22	.98	5.5	1.5	4.0	48	4.8	4.9	2.6	1.7	1.8	1.4	.88
23	.98	2.7	1.4	3.6	48	4.6	5.4	2.6	1.7	1.6	1.2	.88
24	.98	1.8	1.4	3.3	27	4.4	5.1	2.4	1.6	1.5	1.2	.88
25	.98	1.5	1.4	3.2	20	4.1	4.8	2.4	1.5	1.3	1.2	.88
26	.98	1.4	1.4	2.9	17	4.9	4.7	2.3	1.5	1.2	1.2	.88
27	.98	1.4	1.4	2.6	14	18	5.2	2.4	1.5	1.2	1.2	.88
28	.98	1.2	1.4	2.5	13	56	4.8	2.3	1.5	1.1	1.2	.88
29	.98	1.2	1.3	2.4	---	35	4.4	2.3	1.5	1.1	1.2	.88
30	.98	1.2	1.2	3.1	---	21	4.3	2.3	1.5	1.1	1.2	.88
31	.90	---	1.2	3.2	---	17	---	2.3	---	1.1	1.2	---
TOTAL	30.33	47.58	40.18	288.2	485.8	342.2	218.1	94.5	51.2	43.2	39.13	28.68
MEAN	.98	1.59	1.30	9.30	17.4	11.0	7.27	3.05	1.71	1.39	1.26	.96
MAX	1.1	5.5	4.0	55	50	56	15	4.4	2.3	1.8	1.4	1.1
MIN	.90	.88	.88	1.2	1.6	4.1	4.3	2.3	1.5	1.1	.98	.88
AC-FT	60	94	80	572	964	679	433	187	102	86	78	57
CAL YR 1978	TOTAL	4176.97	MEAN	11.4	MAX	315	MIN	.88	AC-FT	8290		
WTR YR 1979	TOTAL	1709.10	MEAN	4.68	MAX	56	MIN	.88	AC-FT	3390		

11160000 SOQUEL CREEK AT SOQUEL, CA

LOCATION.--Lat 36°59'29", long 121°57'17", in NE¼ sec.10, T.11 S., R.1 W., Santa Cruz County, Hydrologic Unit. 18060001, on left bank 0.2 mi (0.3 km) upstream from highway bridge in town of Soquel, and 0.4 mi (0.6 km) downstream from Bates Creek.

DRAINAGE AREA.--40.2 mi² (104.1 km²).

WATER-DISCHARGE RECORDS

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 (6.517 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for periods of no gage-height record, Oct 2 to Nov. 6 and Feb. 9 to Mar. 20, which are poor. No regulation; small diversion above station for irrigation.

AVERAGE DISCHARGE.--28 years, 41.0 ft³/s (1.161 m³/s), 29,700 acre-ft/yr (36.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s (447 m³/s) Dec. 23, 1955, gage height, 22.33 ft (6.806 m), from rating curve extended above 2,900 ft³/s (82.1 m³/s) on basis of slope-area measurement of maximum flow; no flow July 30 to Aug. 2, Aug. 28-30, Sept. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 974 ft³/s (27.6 m³/s) Feb. 14, gage height, 6.32 ft (1.926 m), no peak above base of 1,000 ft³/s (28 m³/s); minimum daily, 1.1 ft³/s (0.031 m³/s) Sept. 12, 16, 17, 19-21, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.9	4.7	4.6	13	105	55	18	8.2	4.4	2.1	2.0
2	2.1	1.9	4.8	4.2	14	88	47	18	8.2	4.5	2.0	1.5
3	2.0	1.9	4.7	4.1	13	78	41	17	7.9	4.7	2.0	1.7
4	2.0	1.9	4.6	4.3	12	66	37	17	7.7	4.5	3.2	2.0
5	2.1	1.9	4.9	4.7	12	60	34	16	7.6	4.3	1.6	1.9
6	2.1	1.9	5.6	4.8	12	58	35	16	7.3	4.1	1.4	1.8
7	2.2	2.0	6.1	6.7	11	52	35	16	6.9	4.0	3.4	1.6
8	2.3	2.0	6.2	141	11	49	30	15	6.5	3.9	2.4	1.6
9	2.3	1.9	6.4	75	11	45	28	15	6.0	3.6	1.9	1.5
10	2.2	1.9	6.4	27	11	42	27	15	6.0	3.6	2.1	1.3
11	2.2	2.2	6.4	262	11	39	26	15	5.5	3.3	2.3	1.2
12	2.1	7.4	6.4	79	11	36	25	15	5.5	3.3	2.2	1.1
13	2.0	11	6.4	34	260	34	24	14	5.4	3.1	2.0	1.3
14	1.9	7.0	6.4	261	280	33	23	14	5.2	3.2	1.9	1.4
15	1.9	6.1	6.5	264	110	38	22	13	5.5	3.5	2.0	1.3
16	1.9	5.8	6.4	68	155	41	22	13	5.6	3.3	1.8	1.1
17	2.0	5.7	14	40	120	35	22	13	5.7	3.2	2.0	1.1
18	2.0	5.7	30	34	98	29	21	13	6.1	3.1	2.0	1.2
19	2.1	8.2	20	26	118	25	20	12	6.2	2.4	2.1	1.1
20	2.2	35	14	22	200	22	19	13	6.0	2.9	1.9	1.1
21	2.3	36	11	20	291	21	19	12	3.7	4.4	1.8	1.1
22	2.2	41	9.8	18	280	20	18	12	5.5	5.9	1.5	1.3
23	2.1	21	8.8	16	220	19	18	11	5.7	5.0	1.5	1.4
24	2.0	13	8.1	15	155	18	21	11	5.4	5.1	1.6	1.2
25	2.0	9.7	7.4	14	110	18	21	10	4.9	3.0	1.6	1.2
26	2.1	8.0	6.7	13	94	19	20	9.9	5.1	2.9	1.5	1.3
27	2.2	7.0	6.3	12	84	104	21	9.7	5.2	3.1	1.6	1.3
28	2.2	6.1	6.0	12	76	259	21	9.3	4.8	2.7	1.7	1.3
29	2.3	5.3	5.6	11	---	162	20	9.1	4.6	2.5	1.6	1.3
30	2.6	4.7	5.1	15	---	95	19	8.4	4.4	2.1	1.6	1.1
31	2.0	---	4.8	17	---	69	---	8.2	---	2.1	1.6	---
TOTAL	65.9	265.1	250.5	1529.4	2793	1779	791	408.6	178.3	111.7	59.9	41.3
MEAN	2.13	8.84	8.08	49.3	99.8	57.4	26.4	13.2	5.94	3.60	1.93	1.38
MAX	2.6	41	30	264	291	259	55	18	8.2	5.9	3.4	2.0
MIN	1.9	1.9	4.6	4.1	11	18	18	8.2	3.7	2.1	1.4	1.1
AC-FT	131	526	497	3030	5540	3530	1570	810	354	222	119	82
CAL YR 1978	TOTAL	19361.6	MEAN	53.0	MAX	1370	MIN	1.5	AC-FT	38400		
WTR YR 1979	TOTAL	8273.7	MEAN	22.7	MAX	291	MIN	1.1	AC-FT	16410		

SOQUEL CREEK BASIN

11160000 SOQUEL CREEK AT SOQUEL, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to February 1979 (discontinued).
 CHEMICAL ANALYSES: Water years 1952-66, 1977.
 WATER TEMPERATURES: Water years 1966 to February 1979 (discontinued).
 SEDIMENT RECORDS: Water year 1976-77.

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: January 1966 to February 1979 (discontinued).

INSTRUMENTATION.--Temperature recorder since January 1966.

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, 30.5°C Aug. 29, 1968; minimum recorded, 2.0°C Jan. 30, 1975.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum for period recorded, 19.5°C Oct. 1; minimum for period recorded, 6.0°C Dec. 31 to Jan. 2.

TEMPERATURE, WATER (DEG. C), PERIOD OCTOBER 1978 TO FEBRUARY 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	19.0	13.5	13.5	11.5	10.5	6.0	6.0	7.5	7.5		
2	19.0	16.0	13.5	13.0	11.5	10.5	7.0	6.0	8.0	7.5		
3	18.0	16.5	13.0	13.0	10.5	9.5	7.5	7.0	8.0	8.0		
4	16.5	16.0	13.0	13.0	10.0	9.5	8.0	7.5	8.0	8.0		
5	16.0	16.0	13.5	13.0	9.5	9.5	9.0	8.0	9.0	8.0		
6	16.5	16.0	14.0	13.5	9.5	9.0	9.0	8.5	---	---		
7	16.5	16.0	14.0	13.5	9.0	7.5	9.0	9.0	---	---		
8	16.0	15.5	13.5	13.5	7.5	6.5	10.0	9.0	---	---		
9	15.5	15.5	13.5	13.5	6.5	6.5	10.5	10.0	---	---		
10	15.5	15.5	13.5	12.5	6.5	6.5	11.0	10.5	---	---		
11	15.5	15.5	12.5	12.0	7.0	6.5	11.0	11.0	---	---		
12	15.5	15.5	12.0	10.0	8.0	6.5	11.5	11.0	---	---		
13	16.0	15.5	10.5	10.0	8.0	8.0	11.5	11.0	---	---		
14	16.5	16.0	10.5	10.5	8.5	8.0	11.5	11.5	---	---		
15	16.5	16.5	10.5	10.0	8.0	8.0	11.5	11.5	---	---		
16	16.5	16.5	10.0	10.0	8.0	8.0	11.5	11.0	---	---		
17	16.5	16.5	10.0	10.0	8.0	8.0	11.0	10.5	---	---		
18	16.5	16.5	10.0	10.0	8.5	8.0	10.5	10.0	---	---		
19	16.5	16.5	10.5	10.0	8.5	8.5	10.0	9.5	---	---		
20	16.5	16.5	11.0	10.5	8.5	8.0	9.5	9.5	---	---		
21	16.5	16.0	11.5	11.0	8.0	8.0	9.5	9.5	---	---		
22	16.0	16.0	11.5	11.5	8.0	8.0	9.5	9.5	---	---		
23	16.0	15.0	11.5	11.5	8.0	8.0	10.0	9.5	---	---		
24	15.0	15.0	11.5	11.5	8.0	8.0	10.0	10.0	---	---		
25	15.0	15.0	11.5	11.5	8.0	8.0	10.0	10.0	---	---		
26	15.5	15.0	11.5	11.0	8.0	8.0	10.0	9.0	---	---		
27	15.5	15.5	11.0	10.5	8.0	8.0	9.0	8.5	---	---		
28	15.5	15.5	10.5	10.5	8.0	8.0	8.5	8.5	---	---		
29	15.5	15.5	10.5	10.5	8.0	8.0	8.5	7.5	---	---		
30	15.5	13.5	10.5	10.5	8.0	7.5	7.5	7.5	---	---		
31	13.5	13.5	---	---	7.5	6.0	7.5	7.5	---	---		
MONTH	19.5	13.5	14.0	10.0	11.5	6.0	11.5	6.0	---	---		

11160020 SAN LORENZO RIVER NEAR BOULDER CREEK, CA

LOCATION.--Lat 37°12'24", long 122°08'38", in NE¼SW¼ sec.25, T.8 S., R.3 W., Santa Cruz County, Hydrologic Unit 18060001, on right bank 22 ft (7 m) upstream from culvert on State Highway 9, 100 ft (30 m) upstream from small right-bank tributary, and 5.8 mi (9.3 km) north of town of Boulder Creek.

DRAINAGE AREA.--6.17 mi² (15.98 km²).

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

GAGE.--Water-stage recorder. Concrete control since Sept. 1, 1971. Altitude of gage is 710 ft (216 m), from topographic map.

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

AVERAGE DISCHARGE.--11 years, 6.35 ft³/s (0.180 m³/s), 4,600 acre-ft/yr (5.67 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 672 ft³/s (19.0 m³/s) Jan. 16, 1973, gage height, 9.10 ft (2.774 m), from rating curve extended above 230 ft³/s (6.51 m³/s) on basis of computation of flow through culvert at gage height 8.48 ft (2.585 m); minimum daily, 0.08 ft³/s (0.002 m³/s) Aug. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft³/s (2.0 m³/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 15	0145	103	2.92	3.54	1.079	Mar. 27	0630	89	2.52	3.37	1.027
Feb. 13	2200	*135	3.82	3.91	1.192						

Minimum daily discharge 0.46 ft³/s (0.013 m³/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.72	.53	1.2	.86	1.8	15	15	3.7	1.7	1.0	.94	1.0
2	.73	.53	.95	.82	1.9	11	13	3.6	1.6	1.1	.91	1.0
3	.73	.53	.88	1.3	1.7	10	12	3.5	1.6	1.2	1.0	.94
4	.73	.55	.84	1.5	1.4	8.9	11	3.3	1.6	1.2	1.0	.88
5	.76	.59	.81	1.4	1.4	7.5	9.5	4.3	1.8	1.1	.98	.73
6	.83	.59	.68	1.3	1.4	6.7	8.8	3.9	1.7	1.1	.91	.68
7	.78	.59	.76	1.3	1.3	6.0	7.9	4.6	1.6	1.1	1.0	.63
8	.73	.58	.87	1.0	1.2	5.1	7.3	4.0	1.5	1.2	1.0	.67
9	.76	.60	.94	2.7	1.2	4.7	6.9	3.6	1.5	1.2	.98	.61
10	.74	.66	.88	1.5	1.2	4.3	6.6	3.5	1.5	1.2	1.0	.57
11	.69	.66	.81	1.2	1.2	4.0	6.5	3.3	1.4	1.1	1.2	.50
12	.63	.84	.81	5.6	1.2	3.9	6.0	3.0	1.4	1.1	1.2	.46
13	.62	1.0	.81	3.4	4.6	3.6	5.6	2.8	1.3	1.0	1.4	.49
14	.60	.94	.89	14	3.9	3.3	5.5	2.7	1.3	1.0	1.4	.53
15	.55	.81	.86	32	18	3.9	5.0	2.7	1.4	1.0	1.3	.53
16	.62	.81	.86	8.2	16	4.7	5.0	2.7	1.4	.99	1.2	.55
17	.64	.81	1.7	5.1	13	4.5	5.3	2.6	1.5	1.1	1.1	.60
18	.63	.81	1.8	4.2	11	4.3	4.8	2.4	1.4	1.2	1.0	.63
19	.59	.95	1.2	3.0	11	4.0	4.6	2.4	1.4	1.2	.90	.66
20	.53	2.3	1.1	2.6	18	3.6	4.4	2.5	1.3	1.2	.96	.65
21	.61	1.6	1.1	2.4	32	3.3	4.3	2.5	1.3	1.3	1.0	.62
22	.58	1.6	1.1	2.2	31	3.4	4.2	2.4	1.3	1.5	.97	.62
23	.52	.98	1.1	2.1	32	3.2	7.8	2.3	1.2	1.3	.92	.66
24	.49	.91	.94	2.0	21	2.9	4.9	2.2	1.2	1.2	.96	.62
25	.50	.81	.94	2.0	16	2.8	4.3	2.2	1.2	1.1	.95	.66
26	.57	.88	.90	1.9	15	5.1	5.2	2.0	1.2	1.1	.96	.69
27	.56	.92	.90	1.6	13	4.0	4.7	2.0	1.2	1.2	.96	.66
28	.53	.92	.92	1.5	11	3.6	4.2	2.0	1.1	1.2	1.0	.61
29	.57	.88	.87	1.6	---	27	4.0	1.9	1.1	1.1	1.1	.62
30	.59	.92	.86	2.4	---	20	3.9	1.8	1.0	1.0	1.2	.60
31	.54	---	.86	1.9	---	17	---	1.7	---	1.0	1.1	---
TOTAL	19.67	26.10	30.14	134.44	359.9	279.7	198.2	88.1	41.7	35.29	32.50	19.67
MEAN	.63	.87	.97	4.34	12.9	9.02	6.61	2.84	1.39	1.14	1.05	.66
MAX	.83	2.3	1.8	32	46	40	15	4.6	1.8	1.5	1.4	1.0
MIN	.49	.53	.68	.82	1.2	2.8	3.9	1.7	1.0	.99	.90	.46
AC-FT	39	52	60	267	714	555	393	175	83	70	64	39
CAL YR 1978	TOTAL	3962.14	MEAN	10.9	MAX	272	MIN	.49	AC-FT	7860		
WTR YR 1979	TOTAL	1265.45	MEAN	3.47	MAX	46	MIN	.46	AC-FT	2510		

SAN LORENZO RIVER BASIN

11160060 BEAR CREEK AT BOULDER CREEK, CA

LOCATION.--Lat 37°07'40", long 122°06'57", in NW¼NW¼ 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 (0.5 km) upstream from mouth.

DRAINAGE AREA.--16.0 mi² (41.4 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 460 ft (140 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record, Nov. 30 to Jan. 11, which are fair. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 2,060 (58.3 m³/s) Jan. 14, 1978, gage height, 10.50 ft (3.200 m), from rating curve extended above 600 ft³/s (49.9 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.13 ft³/s (0.004 m³/s) Oct. 16, 17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.2 m³/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 15	0245	308	8.72	3.44	1.049	Feb. 22	1315	183	5.18	2.67	0.814
Feb. 13	1930	*557	15.8	4.68	1.426	Mar. 27	0930	178	5.04	2.78	0.847

Minimum daily discharge, 0.30 ft³/s (0.008 m³/s) Sept. 21.

DISCHARGE, IN CURIC FEET PER SECOND. WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.68	1.7	1.1	4.4	41	27	7.8	4.1	1.6	.81	.63
2	.48	.72	2.2	1.1	4.8	29	23	7.7	4.0	1.5	.80	.63
3	.50	1.2	1.6	1.1	4.7	26	21	7.2	3.5	1.5	.72	.58
4	.50	.79	1.4	1.2	3.9	24	19	7.2	3.3	1.5	.77	.48
5	.53	.96	1.3	1.3	3.8	22	17	8.0	3.2	1.5	.81	.49
6	.55	.89	1.2	1.4	3.7	20	16	7.7	3.1	1.5	.76	.50
7	.63	.91	1.2	1.5	3.5	18	15	8.1	3.0	1.5	.69	.50
8	.59	.71	1.2	21	3.4	17	14	7.4	2.9	1.5	.69	.44
9	.60	.70	1.3	8.0	3.3	16	13	6.9	2.8	1.3	.69	.40
10	.69	.71	1.5	3.2	3.3	15	13	6.7	2.7	1.3	.69	.41
11	.68	.71	1.4	35	3.3	15	12	6.4	2.6	1.3	.69	.40
12	.68	1.7	1.5	14	3.3	14	12	6.2	2.5	1.3	.71	.40
13	.59	2.3	1.6	7.9	202	13	11	6.1	2.4	1.3	.74	.40
14	.58	1.5	1.6	43	120	13	11	5.9	2.3	1.2	.83	.37
15	.78	1.2	1.5	105	28	13	10	5.7	2.2	1.2	.87	.38
16	.63	1.2	1.5	20	45	16	10	5.7	2.1	1.2	.81	.37
17	.64	1.1	5.4	11	28	16	10	5.6	2.0	1.1	.75	.33
18	.66	1.2	4.3	9.0	33	14	9.6	5.4	1.9	1.1	.69	.33
19	.68	1.5	2.5	7.0	31	14	9.3	5.2	2.2	1.0	.64	.35
20	.75	4.0	1.8	6.2	94	13	9.0	5.2	2.1	.97	.63	.36
21	.86	1.8	1.5	5.7	90	12	8.7	5.2	2.1	1.1	.63	.30
22	.75	2.1	1.4	5.2	140	13	8.4	5.2	2.1	1.5	.63	.31
23	.66	.92	1.4	5.0	94	12	13	5.2	2.0	1.2	.63	.34
24	.58	.62	1.4	4.8	56	11	9.7	5.0	1.9	1.2	.58	.38
25	.58	.56	1.3	4.4	41	11	8.8	5.0	1.9	1.0	.58	.40
26	.49	.58	1.2	4.1	38	22	11	4.8	1.9	.99	.58	.40
27	.59	.55	1.2	4.0	30	120	10	4.8	1.9	.90	.58	.42
28	.58	.58	1.2	4.0	32	123	8.9	4.6	1.8	.87	.60	.44
29	.62	.60	1.2	3.9	---	75	8.3	4.6	1.6	.87	.58	.44
30	.71	.69	1.2	6.8	---	44	8.1	4.4	1.6	.87	.58	.42
31	.71	---	1.2	5.5	---	33	---	4.2	1.6	.87	.60	---
TOTAL	19.37	33.68	51.9	352.4	1146.7	845	376.8	105.1	73.7	37.74	21.36	12.60
MEAN	.62	1.12	1.67	11.4	41.0	27.3	12.6	5.97	2.46	1.22	.69	.42
MAX	.86	4.0	5.4	105	202	123	27	8.1	4.1	1.6	.87	.63
MIN	.48	.55	1.2	1.1	3.3	11	8.1	4.2	1.6	.87	.58	.30
AC-FT	38	67	103	699	2270	1680	747	367	146	75	42	25
CAL YR 1978	TOTAL	10685.07	MEAN	29.3	MAX	850	MIN	.48	AC-FT	21190		
WTR YR 1979	TOTAL	3156.35	MEAN	8.65	MAX	202	MIN	.30	AC-FT	6260		

11160070 BOULDER CREEK AT BOULDER CREEK, CA

LOCATION.--Lat 37°07'36", long 122°07'18", in NW¼NE¼ 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 (229 m) upstream from mouth.

DRAINAGE AREA.--11.3 mi² (29.3 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 470 ft (143 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,630 ft³/s (46.2 m³/s) Jan. 14, 1978, gage-height, 8.03 ft (2.448 m), from rating curve extended above 330 ft³/s (9.35 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.35 ft³/s (0.010 m³/s) Oct. 16, 17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.5 m³/s) and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 15	0100	351	9.94	2.97	0.905	Feb. 22	1300	405	11.5	3.14	0.957
Feb. 13	1930	*741	21.0	4.22	1.286						

Minimum daily discharge, 0.57 ft³/s (0.016 m³/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	1.2	2.3	3.2	8.8	54	36	11	4.8	2.4	1.5	1.3
2	.76	1.3	1.8	3.2	9.0	42	32	11	4.7	2.4	1.5	1.3
3	.69	1.4	1.6	3.2	7.6	36	28	11	4.4	2.4	1.5	1.3
4	.57	1.3	1.5	3.2	6.6	32	26	10	4.4	2.4	1.5	1.3
5	.68	1.3	1.3	3.7	6.3	29	24	13	4.3	2.4	1.5	1.3
6	.83	1.3	1.3	3.8	5.9	26	24	12	4.0	2.4	1.5	1.3
7	.73	1.3	1.3	4.3	5.6	24	23	13	3.9	2.3	1.5	1.4
8	.68	1.3	1.3	6.0	5.2	22	21	12	3.8	2.2	1.5	1.5
9	.63	1.3	1.5	13	5.1	21	20	10	3.7	2.2	1.5	1.4
10	.63	1.4	1.6	7.3	5.1	20	19	10	3.6	2.2	1.5	1.3
11	.63	1.5	1.5	79	5.1	19	19	9.5	3.5	2.0	1.5	1.3
12	.63	3.0	1.6	28	5.1	18	18	9.2	3.2	1.8	1.6	1.2
13	.63	3.4	1.7	14	274	17	17	8.3	3.2	1.8	1.6	1.2
14	.63	1.8	1.7	85	185	16	15	7.5	3.2	1.8	1.6	1.2
15	.63	1.7	1.6	130	48	18	15	7.5	3.2	1.8	1.6	1.2
16	.67	1.7	1.6	33	69	23	15	7.5	2.9	1.8	1.5	1.2
17	.69	1.7	1.6	21	43	21	15	7.5	3.3	1.8	1.5	1.2
18	.69	1.7	1.0	18	48	17	14	7.5	3.5	1.7	1.4	1.3
19	.69	3.2	5.9	15	44	17	14	7.5	3.4	1.6	1.2	1.4
20	.73	13	4.5	13	116	17	13	7.5	3.4	1.6	1.2	1.3
21	.85	6.1	4.0	12	111	16	13	6.8	3.4	1.7	1.2	1.3
22	.82	6.7	4.0	11	174	15	12	5.8	3.1	1.9	1.2	1.3
23	.74	3.2	3.8	9.5	125	14	16	5.8	3.1	1.9	1.2	1.3
24	.63	2.3	3.8	9.5	71	14	13	5.8	3.1	1.6	1.2	1.3
25	.73	2.1	3.7	9.3	55	13	12	5.8	3.1	1.5	1.2	1.3
26	.86	1.8	3.4	7.9	49	27	16	5.8	3.1	1.6	1.2	1.2
27	.93	1.6	3.4	7.3	41	118	15	5.6	3.0	1.6	1.2	1.2
28	.95	1.5	3.4	7.6	45	144	13	5.4	2.6	1.6	1.2	1.1
29	.97	1.5	3.4	7.6	---	81	12	4.8	2.6	1.6	1.3	1.1
30	.99	1.4	3.4	17	---	53	11	4.8	2.4	1.6	1.3	1.1
31	1.3	---	3.3	13	---	42	---	4.8	---	1.6	1.3	---
TOTAL	23.35	74.0	101.2	652.6	1573.4	1026	541	253.7	103.9	59.2	43.2	38.1
MEAN	.75	2.47	3.26	21.1	56.2	33.1	18.0	8.18	3.46	1.91	1.39	1.27
MAX	1.3	13	16	130	274	144	36	13	4.8	2.4	1.6	1.5
MIN	.57	1.2	1.3	3.2	5.1	13	11	4.8	2.4	1.5	1.2	1.1
AC-FT	46	147	201	1290	3120	2040	1070	503	206	117	86	76

CAL YR 1978	TOTAL	10446.09	MEAN	28.6	MAX	720	MIN	.57	AC-FT	20720
WTR YR 1979	TOTAL	4489.65	MEAN	12.3	MAX	274	MIN	.57	AC-FT	8910

SAN LORENZO RIVER BASIN

11160300 ZAYANTE CREEK AT ZAYANTE, CA

LOCATION.--Lat 37°05'10", long 122°02'45", in SE¼ 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 (0.6 km) upstream from Lompico Creek, 2.0 mi (3.2 km) east of Ben Lomond, and 3.2 mi (5.1 km) upstream from mouth.

DRAINAGE AREA.--11.1 mi² (28.7 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m), from topographic map. Prior to Jan. 14, 1978, at datum 0.12 ft (0.037 m) higher.

REMARKS.--Records good except those for periods of no gage-height record, Jan. 3 to Feb. 7, which are fair. No known regulation; only small diversion above station for individual use.

AVERAGE DISCHARGE.--22 years, 10.9 ft³/s (0.309 m³/s), 7,900 acre-ft/yr (9.74 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft³/s (131 m³/s) Jan. 14, 1978, gage height, 8.52 ft (2.597 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of slope-area measurement at gage-height 7.70 ft (2.347 m); no flow at times, caused by filling of pools upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 800 ft³/s (22.7 m³/s) Feb. 13 (1945 hrs), gage height, 4.43 ft (1.350 m), no other peak above base of 450 ft³/s (13 m³/s); minimum daily, 0.48 ft³/s (0.014 m³/s) Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.77	.70	1.7	1.0	3.5	28	21	5.5	2.5	1.4	.76	.74
2	.76	.70	1.4	1.0	3.7	19	18	5.4	2.4	1.4	.74	.75
3	.76	.70	1.2	1.0	3.4	17	16	5.1	2.3	1.4	.82	.72
4	.77	.70	1.2	1.6	3.0	3.0	14	5.1	2.4	1.4	.86	.71
5	.76	.70	1.2	1.5	2.9	2.9	13	5.9	2.3	1.3	.75	.71
6	.80	.70	1.2	1.4	2.7	13	13	5.3	2.2	1.3	.75	.68
7	.84	.65	1.2	1.3	2.6	12	12	5.5	2.1	1.1	.85	.65
8	.83	.64	1.2	39	2.5	11	11	5.0	1.9	1.1	.91	.64
9	.82	.64	1.2	21	2.4	10	10	4.8	1.9	1.1	.95	.64
10	.82	.64	1.2	6.8	2.4	9.9	9.7	4.7	1.8	1.1	.92	.57
11	.78	.64	1.2	46	2.3	9.4	9.3	4.4	1.8	1.0	.80	.56
12	.76	.76	1.2	21	2.3	8.8	8.8	4.2	1.7	1.0	1.0	.50
13	.73	1.3	1.2	82	196	8.5	8.5	4.0	1.7	1.0	.97	.49
14	.68	.91	1.1	31	78	8.1	8.2	3.8	1.7	1.0	.92	.52
15	.68	.83	1.1	78	21	8.7	7.7	3.7	1.7	1.0	.91	.49
16	.72	.82	1.1	26	45	11	7.8	3.6	1.7	1.0	.89	.53
17	.75	.82	3.2	16	22	9.4	7.5	3.7	1.7	.95	.86	.61
18	.77	.83	3.7	11	22	8.5	7.1	3.5	1.7	.96	.83	.49
19	.82	1.1	1.7	8.4	19	7.9	6.8	3.6	1.6	.94	.82	.52
20	.82	7.7	1.4	6.5	62	7.4	6.6	3.6	1.6	.93	.83	.49
21	.82	5.2	1.4	5.5	75	7.1	6.4	3.6	1.6	1.8	.86	.51
22	.80	8.5	1.2	5.0	75	7.2	6.4	3.4	1.6	1.5	.85	.55
23	.75	3.8	1.2	4.5	60	6.6	7.6	3.2	1.5	1.2	.82	.64
24	.76	2.4	1.2	4.3	35	6.1	6.7	3.0	1.5	1.1	.81	.48
25	.74	1.7	1.1	3.9	26	5.9	6.1	3.0	1.5	.98	.78	.55
26	.79	1.4	1.1	3.7	23	13	8.7	2.8	1.5	.91	.76	.57
27	.82	1.2	1.1	3.4	18	84	7.2	2.7	1.5	.92	.75	.55
28	.82	1.2	1.1	3.2	22	100	6.3	2.6	1.5	.90	.76	.50
29	.96	1.2	1.1	3.0	---	56	5.9	2.5	1.5	.86	.79	.55
30	.68	1.3	1.1	5.7	---	33	5.7	3.6	1.4	.85	.76	.63
31	.70	---	1.0	4.9	---	25	---	2.8	---	.76	.75	---
TOTAL	24.08	50.38	42.2	448.6	832.7	557.4	283.0	123.6	53.8	34.16	25.83	17.54
MEAN	.78	1.68	1.36	14.5	29.7	18.0	9.43	3.99	1.79	1.10	.83	.58
MAX	.96	8.5	3.7	82	196	100	21	5.9	2.5	1.8	1.0	.75
MIN	.68	.64	1.0	1.0	2.3	2.9	5.7	2.5	1.4	.76	.74	.48
AC-FT	48	100	84	890	1650	1110	561	245	107	68	51	35
CAL YR 1978	TOTAL	8224.27	MEAN	22.5	MAX	1040	MIN	.64	AC-FT	16310		
WTR YR 1979	TOTAL	2493.29	MEAN	6.83	MAX	196	MIN	.48	AC-FT	4950		

SAN LORENZO RIVER BASIN

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 (6 m) upstream from bridge on Henry Cowell State Park Road, 200 ft (61 m) upstream from Shingle Mill Creek, 0.3 mi (0.5 km) downstream from Zayante Creek, 0.9 mi (1.4 km) northwest of Big Trees station on Southern Pacific Railroad, and 5.3 mi (8.5 km) northwest of Santa Cruz.

DRAINAGE AREA.--106 mi² (275 km²).

WATER-DISCHARGE RECORDS

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 (69.190 m) Santa Cruz County datum. Prior to Oct. 6, 1972, at site 1.3 mi (2.1 km) downstream at different datum.

REMARKS.--Records good except those for period of no gage-height record, June 11 to July 10, which are fair. Flow regulated by Loch Lomond Reservoir since 1961, capacity, 8,400 acre-ft (10.4 hm³). Many small diversions above station for domestic supply.

AVERAGE DISCHARGE.--43 years, 132 ft³/s (3.738 m³/s), 95,630 acre-ft/yr (118 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,400 ft³/s (861 m³/s) Dec. 23, 1955, gage height, 22.55 ft (6.873 m) site and datum then in use, from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of slope-area measurement of maximum flow; minimum, 0.8 ft³/s (0.023 m³/s), regulated, June 25, 1939; minimum daily, 5.6 ft³/s (0.16 m³/s) July 27, 28, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft³/s (40 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 8	1545	1450	41.1	7.26	2.213	Feb. 13	2130	*5080	144	13.12	3.999
Jan. 15	0400	2070	58.6	8.29	2.527	Feb. 20	1815	2080	58.9	8.31	2.533

Minimum daily discharge, 12 ft³/s (0.34 m³/s) Sept. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	15	24	20	37	352	261	72	43	24	16	18
2	15	15	25	19	40	249	226	71	41	24	16	18
3	14	18	23	19	35	222	199	69	38	23	16	17
4	15	15	22	19	32	201	181	67	39	23	20	18
5	15	16	21	20	30	174	169	89	36	23	23	18
6	15	16	20	20	29	153	166	83	36	23	21	15
7	15	15	20	23	27	142	152	85	35	22	22	15
8	16	15	21	44.3	26	130	140	74	34	22	22	16
9	16	15	21	141	26	145	133	64	33	22	22	15
10	15	15	21	70	26	120	124	59	31	21	21	14
11	14	16	22	498	27	120	121	56	30	20	23	13
12	14	25	22	178	26	112	115	54	30	20	23	13
13	14	29	22	86	1660	105	110	50	29	19	23	13
14	14	20	22	508	1280	102	105	48	29	20	22	13
15	15	18	22	939	324	111	101	48	29	20	22	13
16	14	18	21	238	492	139	101	46	28	20	22	13
17	14	18	52	132	291	129	100	47	28	19	22	13
18	15	17	55	105	290	110	93	45	28	18	21	12
19	16	25	34	76	260	104	88	45	27	18	21	12
20	15	106	27	65	723	91	85	46	27	18	21	12
21	15	72	24	58	878	91	82	46	27	21	21	13
22	16	74	24	51	977	93	83	44	26	23	21	13
23	15	40	23	47	803	82	105	40	26	22	20	14
24	14	31	22	44	491	78	91	39	26	19	20	14
25	14	27	22	41	360	78	81	38	26	18	21	14
26	15	26	21	38	302	134	108	35	25	18	20	14
27	15	24	21	35	245	807	100	34	25	18	20	14
28	15	23	21	35	260	990	83	33	25	17	18	14
29	16	23	20	32	---	676	79	31	24	18	20	16
30	15	22	20	61	---	408	76	47	24	17	19	15
31	15	---	20	56	---	314	---	46	---	16	18	---
TOTAL	461	809	755	4117	9997	6762	3658	1651	905	626	637	433
MEAN	14.9	27.0	24.4	133	357	218	122	53.3	30.2	20.2	20.5	14.4
MAX	16	106	55	939	1660	990	261	89	43	24	23	18
MIN	14	15	20	19	26	78	76	31	24	16	16	12
AC-FT	914	1600	1500	8170	19830	13410	7260	3270	1800	1240	1260	859
CAL YR 1978	TOTAL	73074	MEAN 200	MAX 5990	MIN 14	AC-FT 144900						
WTR YR 1979	TOTAL	30811	MEAN 84.4	MAX 1660	MIN 12	AC-FT 61110						

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1906-7, 1952 to current year.

CHEMICAL ANALYSES: Water years 1906-7, 1952-67, 1969-70, 1973-75, 1977.

WATER TEMPERATURES: Water years 1966 to February 1979 (discontinued).

SEDIMENT RECORDS: Water years 1973 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: May 1966 to February 1979.

SEDIMENT RECORDS: October 1972 to current year.

INSTRUMENTATION.--Temperature recorder since May 1966.

REMARKS.--Zero bedload discharge observed at flows less than 87 ft³/s (2.46 m³/s). 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, 25.5°C July 14, 1972; minimum recorded, 1.5°C Dec. 15, 1967.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,170 mg/L Jan. 16, 1973; minimum daily mean, 1 mg/L several days in 1972-74, 1975.

SEDIMENT DISCHARGE: Maximum daily, 125,000 tons (113,000 metric tons) Jan. 16, 1973; minimum daily, 0.06 ton (0.05 metric ton) several days in 1974-77.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 17.5°C Oct. 1, 2; minimum recorded, 3.5°C Dec. 8, 9.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,310 mg/L Feb. 13; minimum daily mean, 2 mg/L Dec. 7-10, 12-16.

SEDIMENT DISCHARGE: Maximum daily, 13,200 tons (12,000 metric tons) Feb. 13; minimum daily, 0.11 ton (0.10 metric ton) Dec. 7-10, 16.

TEMPERATURE, WATER (DEG. C), PERIOD OCTOBER 1978 TO FEBRUARY 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	14.0	12.0	9.5	---	---	---	---	6.5	6.0		
2	17.5	14.0	11.5	8.5	---	---	---	---	7.0	6.5		
3	17.0	13.5	11.0	8.5	---	---	7.0	5.5	6.5	5.5		
4	16.5	13.0	11.0	8.5	8.5	7.0	8.5	7.0	6.0	5.0		
5	16.5	14.0	12.5	10.0	9.0	7.5	9.0	8.0	6.5	5.5		
6	17.0	14.0	12.0	9.0	7.5	6.0	9.0	7.5	7.5	6.5		
7	16.0	12.5	10.5	9.0	6.0	4.5	9.5	8.5	7.5	7.0		
8	15.5	12.0	---	---	5.5	3.5	10.0	9.0	---	---		
9	16.0	13.0	---	---	5.5	3.5	10.5	9.5	---	---		
10	14.5	12.5	---	---	6.5	4.0	11.0	10.0	---	---		
11	16.0	12.5	---	---	7.0	5.0	11.5	11.0	---	---		
12	16.5	12.5	---	---	8.5	6.5	11.0	10.5	---	---		
13	17.0	13.0	---	---	8.5	6.5	10.5	9.5	---	---		
14	16.5	13.5	---	---	8.0	6.0	9.5	9.0	---	---		
15	17.0	14.0	---	---	7.5	5.5	10.0	9.0	---	---		
16	16.0	13.5	---	---	7.5	5.0	9.5	9.0	---	---		
17	15.5	13.0	---	---	9.0	7.5	8.5	7.5	---	---		
18	15.5	13.5	---	---	8.0	7.5	8.5	8.0	---	---		
19	14.5	13.5	---	---	8.0	7.5	8.0	7.0	---	---		
20	15.5	13.5	---	---	7.0	6.0	8.0	6.5	---	---		
21	14.5	12.0	---	---	6.0	5.0	8.0	7.5	---	---		
22	15.0	12.5	---	---	6.0	4.5	8.5	7.5	---	---		
23	14.0	11.0	---	---	5.5	5.5	9.0	8.5	---	---		
24	13.5	10.0	---	---	---	---	9.0	8.0	---	---		
25	14.5	12.5	---	---	---	---	8.5	7.5	---	---		
26	14.0	11.0	---	---	---	---	7.5	6.0	---	---		
27	14.0	11.5	---	---	---	---	6.5	6.0	---	---		
28	14.0	11.5	---	---	---	---	7.0	6.0	---	---		
29	13.0	10.5	---	---	---	---	6.5	5.0	---	---		
30	12.0	9.0	---	---	---	---	6.0	5.5	---	---		
31	10.5	8.0	---	---	---	---	6.5	5.5	---	---		
MONTH	17.5	8.0	12.5	8.5	9.0	3.5	11.5	5.0	7.5	5.0		

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	15	8	.32	15	11	.45	24	9	.58
2	15	9	.36	15	8	.32	25	10	.68
3	14	8	.30	18	12	.58	23	11	.68
4	15	8	.32	15	8	.32	22	13	.77
5	15	7	.28	16	6	.26	21	9	.51
6	15	7	.28	16	6	.26	20	5	.27
7	15	8	.32	15	4	.16	20	2	.11
8	16	9	.39	15	7	.28	21	2	.11
9	16	9	.39	15	11	.45	21	2	.11
10	15	7	.28	15	9	.36	21	2	.11
11	14	5	.19	16	7	.30	22	3	.18
12	14	6	.23	25	26	3.1	22	2	.12
13	14	8	.30	29	19	1.7	22	2	.12
14	14	10	.38	20	10	.54	22	2	.12
15	15	9	.36	18	10	.49	22	2	.12
16	14	6	.23	18	9	.44	21	2	.11
17	14	4	.15	18	9	.44	52	21	3.9
18	15	5	.20	17	9	.41	55	29	4.3
19	16	5	.22	25	23	2.3	34	19	1.7
20	15	6	.24	106	122	37	27	17	1.2
21	15	7	.28	72	92	20	24	14	.91
22	16	8	.35	74	120	24	24	11	.71
23	15	9	.36	40	56	6.3	23	8	.50
24	14	10	.38	31	38	3.2	22	5	.30
25	14	11	.42	27	19	1.4	22	7	.42
26	15	10	.41	26	14	.98	21	9	.51
27	15	11	.45	24	12	.78	21	12	.68
28	15	12	.49	23	9	.56	21	10	.57
29	16	12	.52	23	7	.43	20	10	.54
30	15	13	.53	22	6	.36	20	12	.65
31	15	14	.57	---	---	---	20	10	.54
TOTAL	461	---	10.50	809	---	108.17	755	---	22.13
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	20	8	.43	37	7	.70	352	117	123
2	19	6	.31	40	4	.43	249	35	24
3	19	5	.26	35	3	.28	222	13	7.8
4	19	5	.26	32	4	.35	201	8	4.3
5	20	6	.32	30	5	.41	174	8	3.8
6	20	6	.32	29	6	.47	153	8	3.3
7	23	8	.52	27	6	.44	142	9	3.5
8	443	270	645	26	6	.42	130	8	2.8
9	141	103	48	26	8	.56	145	6	2.3
10	70	42	7.9	26	11	1.3	120	4	.99
11	498	328	566	27	11	.80	120	5	1.6
12	178	104	65	26	11	.77	112	5	1.5
13	86	23	5.3	1660	1310	13200	105	5	1.4
14	508	298	544	1280	556	3610	102	4	1.1
15	939	591	1950	324	96	87	111	20	6.3
16	238	49	39	492	194	288	139	36	15
17	132	13	4.6	291	62	49	129	23	8.4
18	105	20	6.1	290	65	57	110	8	2.4
19	76	9	1.8	260	53	39	104	6	1.7
20	65	8	1.4	723	419	1720	91	4	.98
21	58	8	1.3	878	312	819	91	4	.98
22	51	8	1.1	977	314	1230	93	5	1.3
23	47	6	.76	803	188	449	82	6	1.3
24	44	5	.59	491	63	84	78	6	1.3
25	41	3	.33	360	57	56	78	6	1.3
26	38	4	.41	302	82	69	134	54	48
27	35	6	.57	245	46	30	807	418	1040
28	35	6	.57	260	70	63	990	385	1120
29	32	6	.52	---	---	---	676	143	305
30	61	19	4.4	---	---	---	408	30	33
31	56	16	2.8	---	---	---	314	14	12
TOTAL	4117	---	3899.87	9997	---	21856.93	6762	---	2780.35

SAN LORENZO RIVER BASIN

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	261	14	9.9	72	8	1.6	43	18	2.1
2	226	10	6.1	71	7	1.3	41	15	1.7
3	199	7	3.8	69	6	1.1	38	13	1.3
4	181	7	3.4	67	6	1.1	39	12	1.3
5	169	7	3.2	89	17	4.7	36	10	.97
6	166	11	5.2	83	13	3.0	36	9	.87
7	152	6	2.5	85	21	4.9	35	7	.66
8	140	5	1.9	74	11	2.2	34	7	.64
9	133	5	1.8	64	9	1.6	33	7	.62
10	124	5	1.7	59	9	1.4	31	7	.59
11	121	7	2.3	56	8	1.2	30	6	.49
12	115	9	2.8	54	7	1.0	30	6	.49
13	110	7	2.1	50	7	.95	29	6	.47
14	105	5	1.4	48	7	.91	29	7	.55
15	101	5	1.4	48	7	.91	29	8	.63
16	101	8	2.2	46	7	.87	28	8	.60
17	100	8	2.2	47	7	.89	28	10	.76
18	93	7	1.8	45	6	.73	28	12	.91
19	88	7	1.7	45	6	.73	27	10	.73
20	85	7	1.6	46	6	.75	27	9	.66
21	82	6	1.3	46	6	.75	27	8	.58
22	83	6	1.3	44	7	.83	26	8	.56
23	105	22	6.7	40	7	.76	26	8	.56
24	91	8	2.0	39	7	.74	26	9	.63
25	81	6	1.3	38	7	.72	26	11	.77
26	108	25	8.6	35	8	.76	25	13	.88
27	100	18	5.2	34	8	.73	25	12	.81
28	83	11	2.5	33	8	.71	25	12	.81
29	79	9	1.9	31	7	.59	24	12	.78
30	76	8	1.6	47	22	3.3	24	11	.71
31	---	---	---	46	23	2.9	---	---	---
TOTAL	3658	---	91.4	1651	---	44.63	905	---	24.13
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	24	11	.71	16	8	.35	18	12	.58
2	24	10	.65	16	8	.35	18	10	.49
3	23	10	.62	16	8	.35	17	8	.37
4	23	9	.56	20	8	.43	18	8	.39
5	23	9	.56	23	7	.43	18	6	.29
6	23	8	.50	21	6	.34	15	6	.24
7	22	7	.42	22	6	.36	15	8	.32
8	22	6	.36	22	6	.36	16	10	.43
9	22	5	.30	22	6	.36	15	9	.36
10	21	7	.40	21	6	.34	14	9	.34
11	20	9	.49	23	7	.43	13	9	.32
12	20	11	.59	23	8	.50	13	9	.32
13	19	9	.46	23	8	.50	13	8	.28
14	20	8	.43	22	7	.42	13	8	.28
15	20	6	.32	22	6	.36	13	8	.28
16	20	5	.27	22	5	.30	13	9	.32
17	19	4	.21	22	7	.42	13	10	.35
18	18	4	.19	21	9	.51	12	10	.32
19	18	4	.19	21	11	.62	12	11	.36
20	18	4	.19	21	11	.62	13	12	.42
21	21	8	.45	21	10	.57	13	10	.35
22	23	13	.81	21	9	.51	13	8	.28
23	22	13	.77	20	9	.49	14	6	.23
24	19	13	.67	20	10	.54	14	6	.23
25	18	13	.63	21	12	.68	14	5	.19
26	18	11	.53	20	14	.76	14	4	.15
27	18	10	.49	20	14	.76	14	4	.15
28	17	9	.41	18	13	.63	14	4	.15
29	18	8	.39	20	13	.70	16	5	.22
30	17	8	.37	19	12	.62	15	5	.20
31	16	8	.35	18	14	.68	---	---	---
TOTAL	626	---	14.29	637	---	15.29	433	---	9.21
YEAR	30811.0		28876.90						

11160500 SAN LORENZO RIVER AT BIG TREES, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1978	461.00	10.50	0	10
NOVEMBER ...	809.00	108.17	0	108
DECEMBER ...	755.00	22.13	0	22
JANUARY 1979	4117.00	3899.87	107	4010
FEBRUARY ...	9997.00	21856.93	490	22300
MARCH	6762.00	2780.35	123	2900
APRIL	3658.00	91.40	2	93
MAY	1651.00	44.63	0	45
JUNE	905.00	24.13	0	24
JULY	626.00	14.29	0	14
AUGUST	637.00	15.29	0	15
SEPTEMBER ..	433.00	9.21	0	9
TOTAL	30811.00	28876.90	722	29600

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPERATURE, WATER (DEG C)	STREAM-FLOW, INSTANTANEOUS (CFS)	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 22...	0710	9.5	87	128	30	--	--	--
FEB 21...	1015	10.0	1120	420	1270	33	40	50
FEB 22...	1145	10.0	568	43	66	--	--	--
FEB 22...	1205	10.0	598	46	74	--	--	--
MAR 15...	1040	11.5	104	17	4.8	--	--	--
MAR 28...	1500	10.0	1070	232	670	--	--	--

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 22...	--	--	98	99	100	--	--
FEB 21...	61	74	88	90	93	96	100
FEB 22...	--	--	94	97	99	100	--
FEB 22...	--	--	94	97	99	100	--
MAR 15...	--	--	80	88	100	--	--
MAR 28...	--	--	86	96	100	--	--

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 (1.0 km) downstream from small right-bank tributary, 1.2 mi (1.9 km) upstream from Mill Creek, and 3.1 mi (5.0 km) north of Davenport.

DRAINAGE AREA.--6.07 mi² (15.72 km²).

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

GAGE.--Water-stage recorder and concrete dam. Altitude of gage is 740 ft (226 m), from topographic map.

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

AVERAGE DISCHARGE.--10 years, 7.46 ft³/s (0.211 m³/s), 5,400 acre-ft/yr (6.66 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 937 ft³/s (26.5 m³/s) Apr. 1, 1974, gage height, 5.83 ft (1.777 m), from rating curve extended above 210 ft³/s (5.95 m³/s); no flow Sept. 9-18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 94 ft³/s (2.66 m³/s) Jan. 11, gage height, 4.03 ft (1.228 m), no peak above base of 100 ft³/s (2.8 m³/s); minimum daily, 0.90 ft³/s (0.025 m³/s) Jan. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.3	1.5	1.1	4.3	16	14	7.3	4.3	2.7	1.7	1.7
2	1.6	1.3	1.1	1.1	4.1	14	13	7.3	4.1	2.9	1.7	1.7
3	1.6	1.3	1.0	1.0	3.9	13	13	7.1	4.1	2.9	1.8	1.6
4	1.6	1.3	1.0	.90	3.8	12	12	6.9	4.1	3.0	1.8	1.6
5	1.5	1.3	1.0	1.0	3.8	12	12	8.5	3.9	2.9	1.7	1.5
6	1.6	1.3	1.1	1.0	3.6	10	12	8.4	3.9	2.7	1.7	1.5
7	1.6	1.3	1.2	1.5	3.6	10	11	9.2	3.8	2.7	1.7	1.2
8	1.6	1.3	1.5	1.3	3.6	9.8	11	8.4	3.6	2.6	1.7	1.2
9	1.6	1.2	1.6	7.9	3.5	9.4	10	7.9	3.6	2.6	1.7	1.3
10	1.5	1.1	1.6	4.6	3.3	9.0	9.8	7.5	3.6	2.5	1.7	1.3
11	1.6	1.2	1.5	4.0	3.3	8.6	9.8	7.1	3.5	2.5	1.6	1.2
12	1.5	2.1	1.5	14	3.2	8.6	9.4	6.9	3.5	2.4	1.6	1.2
13	1.5	2.4	1.5	7.7	25	8.2	9.2	6.7	3.5	2.4	1.7	1.3
14	1.5	1.7	1.5	17	21	7.7	8.8	6.5	3.3	2.4	1.7	1.3
15	1.5	1.5	1.3	20	12	8.6	8.6	6.3	3.5	2.4	1.7	1.3
16	1.5	1.3	1.3	14	19	9.9	8.8	6.3	3.3	2.4	1.6	1.3
17	1.5	1.3	2.5	9.0	14	9.6	8.6	5.7	3.5	2.4	1.6	1.3
18	1.6	1.2	2.6	8.4	13	9.0	8.2	5.7	3.5	2.2	1.6	1.3
19	1.6	1.8	2.2	6.9	13	8.6	7.9	5.7	3.5	2.2	1.6	1.2
20	1.6	5.5	1.8	5.9	22	8.2	7.7	5.0	3.3	2.2	1.6	1.2
21	1.6	3.6	1.7	4.8	25	7.9	7.5	5.9	3.3	2.4	1.7	1.2
22	1.6	3.0	1.7	4.8	26	7.9	7.7	5.7	3.2	2.5	1.7	1.2
23	1.5	2.0	1.6	4.6	26	7.5	8.8	5.3	3.2	2.2	1.6	1.2
24	1.5	1.6	1.6	4.4	18	7.3	7.9	5.1	3.0	2.2	1.6	1.2
25	1.5	1.6	1.5	4.1	16	7.1	7.7	5.1	3.0	2.1	1.6	1.3
26	1.3	1.3	1.3	3.8	15	9.3	9.0	5.0	2.9	2.0	1.5	1.3
27	1.5	1.2	1.3	3.8	13	21	9.0	5.0	2.9	2.0	1.6	1.2
28	1.5	1.1	1.2	3.8	14	31	8.2	5.0	2.7	2.0	1.6	1.2
29	1.3	1.0	1.2	3.6	---	25	7.7	4.6	2.9	1.8	1.7	1.2
30	1.3	1.0	1.2	5.1	---	18	7.5	4.4	2.9	1.8	1.7	1.2
31	1.2	---	1.2	4.4	---	16	---	4.3	---	1.8	1.7	---
TOTAL	47.1	50.1	45.8	223.20	336.0	360.2	285.8	195.8	103.4	73.8	51.5	39.4
MEAN	1.52	1.67	1.48	7.20	12.0	11.6	9.53	6.32	3.45	2.38	1.66	1.31
MAX	1.7	5.5	2.6	40	26	31	14	9.2	4.3	3.0	1.8	1.7
MIN	1.2	1.0	1.0	.90	3.2	7.1	7.5	4.3	2.7	1.8	1.5	1.2
AC-FT	93	99	91	443	666	714	567	388	205	146	102	76
CAL YR 1978 TOTAL	3368.20			MEAN 9.23	MAX 100	MIN 1.0	AC-FT 6680					
WTR YR 1979 TOTAL	1812.10			MEAN 4.96	MAX 40	MIN .90	AC-FT 3590					

11162500 PESCADERO CREEK NEAR PESCADERO, CA

LOCATION.--Lat 37°15'39", long 122°19'40", in SW¼ 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 (4.8 km) east of Pescadero, and 5.3 mi (8.5 km) upstream from mouth.

DRAINAGE AREA.--45.9 mi² (118.9 km²).

WATER-DISCHARGE RECORDS

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 (18.99 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Minor regulation from swimming pools in San Mateo County Memorial Park and Portola State Park during summer months. Small diversions above station by pumping.

AVERAGE DISCHARGE.--28 years, 39.7 ft³/s (1.124 m³/s), 28,760 acre-ft/yr (35.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,420 ft³/s (267 m³/s) Dec. 23, 1955, gage height, 21.27 ft (6.483 m), from rating curve extended above 2,700 ft³/s (76.5 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,900 ft³/s (53.8 m³/s) Feb. 14 (0100 hrs), gage height, 8.89 ft (2.710 m), no other peak above base of 700 ft³/s (20 m³/s); minimum daily, 1.6 ft³/s (0.045 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.1	4.2	3.0	11	106	82	21	6.8	4.4	2.9	2.6
2	2.3	2.1	5.1	3.0	12	87	71	20	6.6	4.3	2.9	2.5
3	2.2	2.1	4.0	3.0	11	77	63	19	6.4	4.5	2.7	2.4
4	2.3	2.1	3.4	2.9	9.6	69	57	18	6.1	4.8	2.8	2.3
5	2.1	2.1	3.3	3.1	8.3	62	53	18	6.1	4.8	2.7	2.3
6	2.2	2.1	3.2	3.2	7.9	57	50	22	6.2	4.5	2.8	2.2
7	2.3	2.0	3.0	3.4	7.7	53	47	22	6.0	4.3	2.9	2.3
8	2.4	2.0	3.0	3.0	7.7	50	42	22	5.7	4.0	2.8	2.2
9	2.4	2.0	3.0	4.0	8.0	46	40	19	5.3	4.3	2.8	2.0
10	2.5	1.9	3.1	15	7.8	41	38	18	5.1	4.2	2.9	2.1
11	2.5	1.8	3.3	71	7.6	39	37	17	5.0	4.1	2.8	2.1
12	2.3	1.8	3.3	67	7.3	36	35	16	5.1	3.8	2.9	2.0
13	2.2	2.2	3.4	28	4.09	34	33	15	4.8	3.7	3.0	1.9
14	2.1	2.7	3.3	107	6.04	32	30	13	4.9	3.7	3.4	1.8
15	2.1	2.4	3.4	299	1.36	34	29	13	5.4	3.6	3.3	1.7
16	2.1	2.2	3.3	100	1.08	42	27	13	5.6	3.5	3.1	1.7
17	2.2	2.3	4.1	49	84	43	28	13	6.3	3.7	2.8	1.7
18	2.3	2.3	9.8	40	73	37	26	12	6.3	3.5	2.7	1.7
19	2.2	2.3	6.3	29	73	39	24	11	5.6	3.6	2.5	1.7
20	2.3	6.8	4.4	23	1.07	35	23	10	5.3	3.7	2.4	1.9
21	2.4	1.9	3.8	20	2.04	33	22	11	5.2	3.6	2.4	2.0
22	2.4	7.8	3.6	17	2.51	32	21	11	5.2	4.2	2.5	2.0
23	2.4	6.0	3.4	15	2.54	30	33	9.9	5.5	4.3	2.4	2.0
24	2.4	4.1	3.4	13	1.50	28	30	9.3	5.4	3.7	2.4	1.9
25	2.1	3.5	3.3	12	1.09	26	26	8.9	4.9	3.4	2.4	2.0
26	2.1	3.2	3.2	10	1.06	29	26	8.6	5.1	3.2	2.4	1.9
27	2.1	3.1	3.2	8.9	85	230	28	8.4	4.0	3.2	2.4	2.1
28	2.1	3.0	3.3	8.3	77	291	25	8.1	4.4	3.1	2.4	3.5
29	2.1	3.0	3.2	8.2	---	192	23	8.1	5.4	3.3	2.8	2.2
30	2.1	3.0	3.1	9.9	---	127	22	7.3	4.5	3.2	3.0	1.6
31	2.0	---	3.0	17	---	99	---	6.7	---	3.0	2.9	---
TOTAL	69.6	103.0	116.4	1058.9	2935.9	2136	1091	429.3	164.2	119.2	85.1	62.3
MEAN	2.25	3.43	3.75	34.2	105	68.9	36.4	13.8	5.47	3.85	2.75	2.08
MAX	2.5	1.9	9.8	299	604	291	82	22	6.8	4.8	3.4	3.5
MIN	2.0	1.8	3.0	2.9	7.3	26	21	6.7	4.0	3.0	2.4	1.6
AC-FT	138	204	231	2100	5820	4240	2160	852	326	236	169	124
CAL YR 1978	TOTAL	22356.2	MEAN 61.2	MAX 1810	MIN 1.8	AC-FT 44340						
WTR YR 1979	TOTAL	8370.9	MEAN 22.9	MAX 604	MIN 1.6	AC-FT 16600						

PESCADERO CREEK BASIN

11162500 PESCADERO CREEK NEAR PESCADERO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to February 1979 (discontinued).
 CHEMICAL ANALYSES: Water year 1977.
 WATER TEMPERATURES: Water years 1965 to February 1979 (discontinued).
 SEDIMENT RECORDS: Water years 1971, 1973.

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: April 1965 to February 1979.

INSTRUMENTATION.--Temperature recorder since April 1965.

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, 22.5°C June 27, 1973; minimum recorded, 2.0°C Dec. 19, 1965.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum for period recorded, 16.5°C Oct. 7, 8; minimum for period recorded, 4.0°C Jan. 2, Feb. 3-6.

TEMPERATURE, WATER (DEG. C), PERIOD OCTOBER 1978 TO FEBRUARY 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	9.5	9.0	5.0	4.5	5.0	4.5		
2	---	---	---	---	9.5	9.0	4.5	4.0	5.0	4.5		
3	---	---	---	---	9.5	8.5	4.5	4.5	5.0	4.0		
4	---	---	---	---	9.0	8.5	6.0	5.0	5.0	4.0		
5	---	---	---	---	8.5	8.0	6.5	6.0	5.0	4.0		
6	---	---	---	---	8.5	8.0	6.5	6.0	5.5	4.0		
7	16.5	15.0	---	---	8.0	7.5	6.5	6.5	6.0	4.5		
8	16.5	15.0	---	---	7.5	7.0	7.0	7.0	6.0	6.0		
9	16.0	15.5	10.0	9.5	7.0	6.5	8.0	7.0	---	---		
10	16.0	14.5	10.0	9.0	6.5	6.0	8.0	8.0	---	---		
11	16.0	14.0	9.5	9.0	6.5	5.5	8.5	8.0	---	---		
12	15.5	14.0	9.0	8.5	6.5	5.5	9.0	8.5	---	---		
13	15.5	14.0	8.5	8.0	6.5	6.0	9.0	9.0	---	---		
14	16.0	14.5	8.5	8.0	6.5	6.0	9.0	9.0	---	---		
15	16.0	15.0	8.5	7.5	6.5	6.0	9.0	9.0	---	---		
16	16.0	15.0	8.0	7.5	6.5	6.0	9.0	9.0	---	---		
17	---	---	8.0	7.5	6.5	6.0	8.5	8.0	---	---		
18	---	---	8.5	7.5	7.0	6.5	8.0	7.5	---	---		
19	---	---	8.5	8.0	7.0	7.0	8.0	7.5	---	---		
20	---	---	9.0	8.5	7.0	7.0	7.5	7.0	---	---		
21	---	---	9.5	9.0	7.0	6.5	7.5	6.5	---	---		
22	---	---	9.5	9.0	6.5	6.0	7.5	6.5	---	---		
23	---	---	9.5	9.0	6.5	6.0	7.5	7.0	---	---		
24	---	---	9.5	9.0	5.5	5.5	7.5	7.5	---	---		
25	---	---	9.0	8.5	5.5	5.5	7.5	7.0	---	---		
26	---	---	9.5	9.0	5.5	5.0	7.5	6.5	---	---		
27	---	---	9.5	9.0	5.5	5.0	7.0	6.0	---	---		
28	---	---	9.5	8.5	6.0	5.5	6.5	5.5	---	---		
29	---	---	9.0	8.5	6.0	5.5	6.0	5.0	---	---		
30	---	---	9.0	8.5	6.0	5.5	5.0	5.0	---	---		
31	---	---	---	---	5.5	4.5	5.0	4.5	---	---		
MONTH	16.5	14.0	10.0	7.5	9.5	4.5	9.0	4.0	6.0	4.0		

SAN GREGORIO CREEK BASIN

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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 (0.2 km) south of town of San Gregorio, and 1.4 mi (2.3 km) upstream from mouth.

DRAINAGE AREA.--50.9 mi² (131.8 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 11.40 ft (3.475 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--10 years, 34.6 ft³/s (0.98 m³/s), 25,070 acre-ft/yr (30.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,730 ft³/s (106 m³/s) Jan. 16, 1973, gage height, 17.5 ft (5.33 m) from outside high-water marks; no flow many days in 1972 and 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 14	0130	*1830	51.8	11.93	3.636
Feb. 22	1430	1010	28.6	9.01	2.746

Minimum daily discharge, 0.26 ft³/s (0.007 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.51	6.7	2.6	8.0	214	72	15	4.8	3.3	1.1	1.7
2	.63	.49	9.4	2.4	8.7	214	61	15	4.7	3.0	.86	1.2
3	.63	.55	4.4	2.2	8.0	214	53	15	4.6	3.1	1.1	1.4
4	.82	.65	3.3	2.4	7.6	213	47	14	4.5	3.4	.94	.91
5	.87	.81	3.0	2.8	7.3	212	42	14	4.4	3.5	.68	1.1
6	.96	.90	2.5	3.1	7.1	211	40	16	4.0	3.3	.52	.29
7	.99	.81	2.2	3.4	7.0	113	36	17	4.2	2.7	.52	.48
8	1.1	.73	2.2	.7	6.7	46	33	16	3.9	2.7	.51	.39
9	1.1	.71	2.2	35	6.4	41	31	14	3.0	2.5	.51	.59
10	1.0	.70	2.2	12	6.4	37	29	13	2.9	2.6	.73	.55
11	1.0	.87	2.3	138	6.4	34	29	12	3.3	2.2	.51	.67
12	.70	.91	2.4	67	6.2	31	27	11	3.6	1.7	.73	.57
13	.47	2.1	2.4	26	265	29	25	12	3.4	1.5	.82	.38
14	.28	2.7	2.4	192	562	27	24	12	3.5	1.6	1.1	.53
15	.42	2.1	2.3	311	114	29	23	12	3.6	1.9	1.1	.65
16	.54	1.8	2.2	88	102	40	22	12	4.1	1.8	1.1	.52
17	.77	1.6	3.6	53	65	36	22	11	4.5	1.8	1.0	.49
18	.89	1.7	9.2	51	78	30	21	11	3.5	1.7	1.1	.44
19	1.1	1.8	5.7	34	87	29	19	10	3.1	1.7	1.4	.44
20	1.1	16	4.3	25	302	26	18	9.8	2.9	1.7	1.4	.76
21	.86	32	3.5	20	242	24	18	9.7	2.9	1.8	1.0	.82
22	.84	14	3.3	16	457	24	17	9.1	2.9	3.0	1.2	.89
23	.86	6.8	3.3	14	286	22	19	8.5	3.1	2.2	.91	.63
24	.73	4.1	3.3	12	155	20	17	8.2	3.5	1.9	.91	.55
25	.63	3.3	3.1	11	105	19	16	8.0	3.8	1.5	.91	.39
26	.62	2.9	3.1	9.1	162	28	17	7.4	3.6	1.5	.82	.37
27	.74	2.7	2.9	7.8	90	349	18	7.3	3.2	1.6	.91	.38
28	.79	2.4	2.7	7.9	101	336	15	6.9	3.0	1.6	1.0	.46
29	.98	2.4	2.7	7.5	---	202	15	6.4	3.2	1.6	1.5	.58
30	.63	2.2	2.7	8.1	---	119	15	5.4	3.2	1.4	2.2	.60
31	.60	---	2.7	10	---	88	---	5.0	---	1.2	2.2	---
TOTAL	23.91	111.24	108.2	1211.3	3258.8	3057	841	343.7	108.9	67.0	31.29	19.73
MEAN	.77	3.71	3.49	39.1	116	98.6	28.0	11.1	3.63	2.16	1.01	.66
MAX	1.1	32	9.4	311	562	349	72	17	4.8	3.5	2.2	1.7
MIN	.26	.49	2.2	2.2	6.2	19	15	5.0	2.9	1.2	.51	.29
AC-FT	47	221	215	2400	6460	6060	1670	682	216	133	62	39

CAL YR 1978	TOTAL	16807.74	MEAN	46.0	MAX	1070	MIN	.02	AC-FT	33340
WTR YR 1979	TOTAL	9182.07	MEAN	25.2	MAX	562	MIN	.26	AC-FT	18210

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 (0.3 km) downstream from State Highway 1, 0.5 mi (0.8 km) northwest of town of Half Moon Bay, and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--27.2 mi² (70.4 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 23.59 ft (7.190 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair including those for period of no gage-height record, Jan. 27 to Feb. 15. Flow partly regulated by storage in Pilarcitos Lake 10 mi (16 km) upstream, capacity, 3,100 acre-ft (3.82 hm³). Water is diverted to City of San Francisco Water System; small diversions for irrigation above station by pumping.

AVERAGE DISCHARGE (unadjusted).--13 years, 12.6 ft³/s (0.357 m³/s), 9,130 acre-ft/yr (11.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,290 ft³/s (36.5 m³/s) Jan. 30, 1968, gage height, 11.20 ft (3.414 m); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 15	0030	202	5.72	5.03	1.533	Feb. 28	2130	201	5.69	5.02	1.530
Feb. 14	unknown	*393	11.1	6.24	1.902	Mar. 28	1800	270	7.65	5.50	1.676
Feb. 22	1330	375	10.6	6.14	1.871						

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	4.1	.62	7.0	62	30	4.7	.95	.90	.35	
2		0	1.9	.60	4.4	46	24	4.6	1.0	1.1	.32	
3		0	1.6	1.1	4.0	44	24	4.8	1.3	.71	.37	
4		0	1.4	1.8	3.7	37	23	4.7	1.4	1.0	.23	
5		0	1.6	2.1	3.3	32	21	4.7	1.1	1.6	.44	
6		0	1.3	1.4	3.1	29	21	4.5	.80	1.1	.54	
7		0	1.1	2.4	3.0	28	19	4.4	.71	.95	.39	
8		0	.98	15	3.0	26	18	3.8	.71	.54	.58	
9		0	1.2	9.7	3.1	24	17	3.4	.79	.58	.29	
10		0	1.2	7.2	3.0	23	17	3.2	1.1	.42	.19	
11		0	1.2	33	2.9	22	16	3.0	1.3	.47	.28	
12		0	1.3	17	2.8	20	15	2.7	.99	.41	.16	
13		0	1.1	10	30	18	14	2.8	1.1	.48	.33	
14		0	.94	50	230	18	13	2.8	.77	.44	.18	
15		0	1.0	85	99	21	13	2.7	.70	.73	.07	
16		0	.94	29	45	25	13	2.8	.80	1.1	.05	
17		0	2.1	23	31	22	13	2.5	.93	.60	.11	
18		0	1.8	21	30	21	11	2.3	.80	.61	.02	
19		0	1.1	15	27	20	11	2.1	.55	.48	.01	
20		3.0	.75	13	64	18	11	2.1	.59	.49	.04	
21		4.5	.75	11	103	17	10	1.9	.49	.59	0	
22		8.6	.74	9.2	126	17	10	1.4	.56	.86	0	
23		3.1	.66	8.6	65	17	10	1.4	.41	1.0	0	
24		1.7	.74	8.2	46	32	7.6	1.5	.47	.75	0	
25		1.3	.76	7.7	39	50	6.1	1.5	.62	.49	0	
26		1.3	.76	7.1	47	48	6.8	1.7	.81	.58	0	
27		1.2	.76	6.8	34	112	5.6	1.8	.70	.79	0	
28		.98	.76	6.2	52	116	5.6	1.4	.91	.52	0	
29		1.0	.72	6.2	---	57	5.1	1.5	.87	.45	0	
30		1.2	.61	7.6	---	44	4.9	1.1	.90	.36	0	
31		---	.57	12	---	37	---	.86	---	.19	0	---
TOTAL	0	27.88	36.44	428.52	1111.3	1103	415.7	84.66	25.13	21.29	4.45	0
MEAN	0	.93	1.18	13.8	39.7	35.6	13.9	2.73	.84	.69	.16	0
MAX	0	8.6	4.1	85	230	116	30	4.8	1.4	1.6	.58	0
MIN	0	0	.57	.60	2.8	17	4.9	.86	.41	.19	0	0
AC-FT	0	55	72	850	2200	2190	825	168	50	42	9.8	0
(†)	68	48	15	941	754	470	344	14	44	80	72	103
CAL YR 1978	TOTAL	4394.98	MEAN	12.0	MAX	284	MIN	0	AC-FT	8720	†	4920
WTR YR 1979	TOTAL	3258.87	MEAN	8.93	MAX	230	MIN	0	AC-FT	6460	†	2950

† Diversion, in acre-feet, to City of San Francisco Water System, furnished by city and county of San Francisco.

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 (1.6 km) southwest of South San Francisco Post Office.

DRAINAGE AREA.--10.8 mi² (28.0 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 12.53 ft (3.819 m) National Geodetic Vertical Datum of 1929. Recording rain gages at Skyline College, altitude, 700 ft (213 m) at site 2.9 mi (4.7 km) southwest of gaging station and on San Bruno Mountain, altitude, 930 ft (283 m) at site 2.7 mi (4.3 km) northwest of gaging station.

REMARKS.--Records fair. Low flow affected by return flow from urban irrigation.

AVERAGE DISCHARGE.--16 years, 6.87 ft³/s (0.195 m³/s), 4,980 acre-ft/yr (6.14 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,880 ft³/s (81.6 m³/s) Jan. 16, 1973, gage height, 11.80 ft (3.597 m); no flow Oct. 5, 26, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 8	1155	1140	32.3	8.08	2.463	Feb. 15	2355	664	18.8	6.67	2.033
Jan. 11	0055	868	24.6	7.31	2.228	Feb. 20	1410	828	23.4	7.19	2.192
Jan. 15	1150	*1370	38.8	8.68	2.646	Feb. 28	1920	1120	31.7	8.03	2.448

Minimum daily discharge, 0.31 ft³/s (0.009 m³/s) Dec. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.6	24	.59	1.5	7.1	2.0	1.3	2.1	.43	1.2	2.1
2	2.3	.94	.84	.59	1.2	7.6	1.6	1.2	2.1	.84	1.2	2.1
3	1.7	1.6	.65	6.5	1.2	28	1.4	1.2	2.1	1.2	1.2	1.6
4	2.1	.95	.61	.85	1.1	3.3	1.6	1.2	2.1	1.6	1.2	1.6
5	2.1	1.5	1.0	2.4	.77	3.2	1.6	3.7	1.6	1.2	1.2	1.3
6	2.2	1.2	.92	.59	.70	3.0	2.7	3.5	1.2	1.2	1.2	1.3
7	2.0	1.4	.68	43	.66	3.1	.84	2.4	1.2	1.2	1.2	1.2
8	2.0	1.2	.59	128	.66	3.2	.84	1.3	1.2	1.2	.96	1.2
9	2.2	1.6	.59	23	.59	3.2	1.3	1.2	1.6	1.2	.84	1.2
10	2.3	1.6	.53	36	.59	3.2	1.0	1.2	2.1	1.1	.84	1.5
11	1.7	1.9	.59	162	.52	2.7	.94	1.2	2.6	.59	.84	1.6
12	2.0	16	.59	3.6	.68	2.4	1.4	1.2	1.6	.84	.84	1.6
13	.98	1.5	.59	2.1	160	1.7	1.2	1.2	1.2	.43	.84	1.8
14	.86	.59	.52	182	16	1.6	1.2	1.3	1.2	.59	.84	1.3
15	.84	.47	.59	148	18	3.0	.84	1.2	1.0	.43	1.2	1.4
16	3.6	.79	.52	9.5	30	22	1.4	1.3	.84	.43	1.2	1.2
17	1.5	.81	33	25	3.3	2.3	2.2	1.4	.84	.59	1.2	1.6
18	1.2	.59	13	4.8	31	10	1.5	1.5	1.0	1.6	1.2	1.6
19	1.0	1.4	.78	1.6	13	1.7	2.0	1.6	1.2	1.6	1.2	1.2
20	1.2	26	.59	2.2	90	1.9	.51	1.6	1.6	1.6	1.2	1.2
21	2.4	41	.59	.51	79	1.8	.43	1.6	1.2	1.6	1.2	1.3
22	2.2	62	.59	.43	58	3.5	2.7	1.6	1.2	1.6	1.6	1.2
23	2.6	1.6	.59	.46	22	1.6	20	1.6	1.2	1.2	1.6	1.4
24	2.2	.70	.59	.43	7.9	1.6	.75	1.6	1.2	.84	1.6	1.5
25	1.6	.59	.59	.67	29	1.4	1.3	1.6	1.2	1.2	1.6	1.2
26	1.3	.61	.66	.43	10	48	20	1.6	.84	1.2	1.6	1.9
27	1.4	.64	.43	.43	3.4	69	1.3	1.3	.84	1.2	1.6	1.4
28	1.1	.59	.31	1.1	63	23	1.2	1.6	.59	1.6	1.6	1.2
29	1.2	.59	.31	2.1	---	3.1	1.2	1.2	.43	1.6	2.1	1.6
30	1.8	.59	.31	39	---	2.7	1.3	1.3	.43	1.2	2.1	2.1
31	1.5	---	.34	2.0	---	2.4	---	1.6	---	1.2	2.1	---
TOTAL	54.68	172.55	86.49	829.88	643.77	272.3	78.25	48.3	39.51	34.31	40.30	44.4
MEAN	1.76	5.75	2.79	26.8	23.0	8.78	2.61	1.56	1.32	1.11	1.30	1.48
MAX	3.6	62	33	182	160	69	20	3.7	2.6	1.6	2.1	2.1
MIN	.84	.47	.31	.43	.52	1.4	.43	1.2	.43	.43	.84	1.2
AC-FT	108	342	172	1650	1280	540	155	96	78	68	80	88
(†)	.08	1.51	.43	3.78	2.95	1.22	.47	.07	.04	.14	.13	.04
(‡)	.11	2.73	.89	7.13	6.88	3.04	.70	.16	.08	.24	.16	.07
CAL YR 1978 TOTAL	2973.09		MEAN 8.15	MAX 275	MIN .31	AC-FT 5900						
WTR YR 1979 TOTAL	2344.74		MEAN 6.42	MAX 182	MIN .31	AC-FT 4650						

† Precipitation, in inches, at San Bruno Mt. gage.
‡ 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 (61 m) upstream from Alameda de las Pulgas bridge, and 2.5 mi (4.0 km) south of Redwood City Old Post Office.

DRAINAGE AREA.--1.82 mi² (4.71 km²).

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

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 83.92 ft (25.579 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--20 years, 1.03 ft³/s (0.029 m³/s), 746 acre-ft/yr (920,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 644 ft³/s (18.2 m³/s) Jan. 31, 1963, gage height, 9.36 ft (2.853 m), from rating curve extended above 180 ft³/s (5.10 m³/s) on basis of slope-area measurement of maximum flow and computation of maximum flow through culvert; maximum gage height, 11.55 ft (3.520 m) Nov. 29, 1970 (backwater from culvert trash racks); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 14	2315	165	4.67	4.61	1.405
Feb. 22	1215	*183	5.18	4.84	1.475

Minimum daily discharge, 0.01 ft³/s (<0.001 m³/s) many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	.30	.01	.38	3.5	1.1	.30	.08	.02	.02	.01
2	.05	.01	.09	.01	.40	1.7	1.0	.29	.07	.02	.03	.01
3	.02	.01	.07	.02	.32	1.4	.98	.26	.07	.03	.03	.01
4	.03	.02	.05	.03	.32	1.2	.91	.24	.06	.04	.02	.01
5	.03	.03	.05	.18	.31	1.1	.83	.62	.10	.05	.03	.01
6	.02	.03	.06	.06	.30	.95	.91	.47	.07	.06	.04	.01
7	.04	.03	.09	.63	.29	.80	.79	.60	.06	.05	.05	.03
8	.02	.03	.10	10	.29	.75	.73	.29	.05	.02	.04	.01
9	.02	.03	.11	.86	.29	.70	.73	.24	.06	.01	.04	.02
10	.02	.03	.08	.76	.30	.65	.65	.23	.10	.01	.04	.02
11	.02	.04	.06	11	.30	.63	.63	.22	.17	.01	.04	.01
12	.01	.25	.05	.98	.29	.60	.58	.21	.05	.01	.05	.02
13	.02	.06	.05	.50	22	.58	.58	.20	.07	.01	.05	.02
14	.01	.01	.05	35	7.4	.56	.54	.20	.07	.01	.13	.02
15	.02	.01	.06	22	1.3	1.0	.51	.18	.07	.02	.10	.02
16	.01	.01	.06	1.9	3.3	1.3	.53	.19	.08	.02	.10	.03
17	.01	.01	.79	1.7	1.1	.70	.58	.19	.07	.02	.10	.04
18	.01	.01	.68	1.2	2.9	10	.46	.17	.07	.02	.08	.02
19	.07	.17	.24	.75	2.1	1.9	.43	.19	.07	.02	.08	.02
20	.01	2.7	.04	.64	16	1.2	.42	.23	.04	.01	.11	.02
21	.01	.89	.02	.58	28	.90	.47	.17	.08	.19	.07	.04
22	.01	.84	.02	.53	38	.76	.42	.16	.04	.01	.01	.04
23	.01	.24	.02	.50	8.3	.69	.58	.19	.01	.02	.01	.05
24	.01	.12	.02	.49	2.5	.74	.43	.16	.01	.01	.01	.05
25	.01	.07	.01	.50	2.4	.90	.35	.17	.02	.03	.01	.03
26	.01	.07	.01	.40	2.9	5.0	.91	.13	.02	.01	.01	.03
27	.01	.05	.02	.39	1.5	40	.39	.12	.03	.02	.01	.04
28	.01	.04	.02	.40	7.7	14	.35	.11	.07	.03	.01	.03
29	.01	.04	.02	.39	---	3.5	.32	.13	.02	.01	.01	.02
30	.01	.05	.01	.64	---	1.8	.30	.22	.01	.02	.01	.02
31	.01	---	.01	.44	---	1.4	---	.10	---	.01	.01	---
TOTAL	.56	5.91	3.26	93.49	151.19	100.91	18.41	7.18	1.79	.82	1.35	.71
MEAN	.018	.20	.11	3.02	5.40	3.26	.61	.23	.060	.027	.044	.024
MAX	.07	2.7	.79	35	38	40	1.1	.62	.17	.19	.13	.05
MIN	.01	.01	.01	.01	.29	.56	.30	.10	.01	.01	.01	.01
AC-FT	1.1	12	6.5	185	300	200	37	14	3.6	1.6	2.7	1.4
CAL YR 1978	TOTAL	535.64	MEAN	1.47	MAX	53	MIN	0	AC-FT	1060		
WTR YR 1979	TOTAL	385.58	MEAN	1.06	MAX	40	MIN	.01	AC-FT	765		

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 (1.8 km) downstream from Los Trancos Creek, and 1.1 mi (1.8 km) west of Stanford University Post Office.

DRAINAGE AREA.--37.4 mi² (96.9 km²).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 115.75 ft (35.281 m) National Geodetic Vertical Datum of 1929. Recording rain gage at Oak Grove Avenue in Menlo Park 1.9 mi (3.1 km) north of gage.

REMARKS.--Records good. Flow regulated by Searsville Lake 5 mi (8 km) upstream, capacity, 952 acre-ft (1.17 hm³). Diversions of about 800 acre-ft (986,000 m³) each year above station to Los Trancos and Lagunita Canals for irrigation on Stanford University campus below station. Low flow affected by waste water from Stanford Linear Accelerator.

AVERAGE DISCHARGE.--40 years, 18.0 ft³/s (0.510 m³/s), 13,040 acre-ft/yr (16.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,560 ft³/s (157 m³/s) Dec. 22, 1955, gage height, 13.60 ft (4.145 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (20 m³/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 14	0100	768	21.7	3.95	1.204	Feb. 22	1345	*1330	37.7	4.91	1.497

Minimum daily discharge, no flow Aug. 17, 22, 23, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	.46	.97	.47	1.3	87	26	.82	.23	.13	1.7	.26
2	.32	.29	.37	.45	1.0	42	20	.76	.20	.14	.56	.26
3	.36	.32	.30	.45	.78	34	17	.68	.19	.14	1.1	.32
4	.20	.32	.30	.51	.61	29	13	.63	.20	.13	1.1	.12
5	.07	.42	.34	.97	.53	20	11	1.7	.21	.13	.11	.06
6	.15	.42	.34	.72	.47	7.6	8.2	2.3	.21	.12	.06	.11
7	.16	.37	.33	1.4	.45	7.7	7.7	3.5	.19	.08	.02	.20
8	.21	.54	.39	24	.58	9.9	6.6	2.3	.17	.13	.04	.47
9	.44	.50	.47	5.2	.54	9.1	5.4	1.4	.13	.14	.02	.33
10	.52	.57	.50	1.7	.43	8.2	4.3	1.0	.18	.21	.02	.26
11	.45	.60	.46	71	.45	9.6	3.5	.71	.23	.20	.02	.46
12	.43	1.3	.47	33	.45	12	2.8	.51	.28	.22	.04	.53
13	.49	.77	.37	6.7	93	9.4	2.2	.45	.21	.11	.09	.47
14	1.7	.20	.33	153	333	7.0	1.9	.45	.21	.11	.08	.50
15	2.0	.17	.39	287	46	10	1.8	1.3	.20	.11	.13	.15
16	.99	.22	.39	44	49	15	1.7	1.4	.20	.11	.09	.13
17	.39	.30	2.0	17	23	6.4	1.6	1.4	.16	.16	0	.15
18	.55	.32	1.8	15	30	40	1.5	1.4	.15	.14	.04	.17
19	.34	.48	1.1	7.4	40	15	1.4	1.2	.17	.11	.04	.33
20	.19	6.6	.87	5.6	142	6.0	1.3	1.1	.16	.13	.13	.72
21	.34	3.1	.54	3.9	359	5.4	1.3	1.4	.20	.27	.05	.16
22	.49	1.8	.42	2.7	506	4.7	1.2	1.0	.20	.29	0	.11
23	.44	.93	.45	2.3	291	4.0	2.2	.65	.27	.76	0	.25
24	.12	.57	.45	2.0	107	4.4	1.3	.72	.29	1.0	.12	.42
25	.19	.41	.45	1.8	67	4.7	1.2	.60	.22	.68	.09	.83
26	.41	.37	.49	1.5	83	45	10	.58	.31	.93	0	1.0
27	.49	.37	.53	1.2	41	210	6.0	.59	.25	1.0	.09	.50
28	.61	.37	.53	1.1	57	150	3.2	.64	.18	.91	.20	.16
29	.66	.47	.58	.96	---	95	1.7	.50	.18	.93	.30	.08
30	.53	.58	.63	1.3	---	53	.92	.22	.15	1.1	.28	.12
31	.59	---	.53	1.7	---	34	---	.18	---	1.1	.33	---
TOTAL	15.58	24.14	18.09	696.03	2274.59	995.1	167.92	32.09	6.13	11.72	6.85	9.63
MEAN	.50	.80	.58	22.5	81.2	32.1	5.60	1.04	.20	.38	.22	.32
MAX	2.0	6.6	2.0	287	506	210	26	3.5	.31	1.1	1.7	1.0
MIN	.07	.17	.30	.45	.43	4.0	.92	.18	.13	.08	0	.06
AC-FT	31	48	36	1380	4510	1970	333	64	12	23	14	19
(†)	0	1.78	.30	3.92	4.33	2.08	.31	.17	0	.04	0	0
CAL YR 1978	TOTAL	9452.12	MEAN	25.9	MAX	882	MIN	.07	AC-FT	18750		
WTR YR 1979	TOTAL	4257.87	MEAN	11.7	MAX	506	MIN	0	AC-FT	8450		

† 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 (46 m) upstream from Lambert Avenue Bridge, and 2.1 mi (3.4 km) southeast of Palo Alto Post Office.

DRAINAGE AREA.--7.26 mi² (18.80 km²), revised.

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

GAGE.--Water-stage recorder. Datum of gage is 22.07 ft (6.727 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 25, 1958, at site 150 ft (46 m) downstream at different datum.

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

AVERAGE DISCHARGE.--27 years, 1.85 ft³/s (0.052 m³/s), 1,340 acre-ft/yr (1.65 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft³/s (31.2 m³/s) Feb. 27, 1973, gage height, 5.57 ft (1.698 m), from rating curve extended above 150 ft³/s (4.25 m³/s) on basis of step-backwater computations at gage heights 3.68 ft (1.122 m) and 5.33 ft (1.625 m); maximum gage height, 9.88 ft (3.011 m) Dec. 23, 1955, site and datum then in use (backwater from culvert); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.7 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 14	2300	*203	5.75	2.24	0.683
Feb. 22	1300	202	5.72	2.23	.680

Minimum daily discharge, no flow Jan. 27, Feb. 10, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.03	1.1	.07	.38	8.2	2.1	.38	.21	.11	.45	.14
2	.08	.08	.14	.25	.19	3.1	1.7	.35	.31	.11	.18	.10
3	.10	.09	.13	.37	.09	2.2	1.5	.24	.71	.12	.24	.12
4	.05	.11	.14	.26	.11	1.6	1.1	.23	.27	.08	.24	.11
5	.03	.07	.14	.42	.11	1.3	1.2	.89	.25	.07	.18	.11
6	.03	.06	.17	.02	.11	1.1	.97	.93	.33	.05	.14	.08
7	.04	.05	.19	3.9	.12	.87	.85	1.3	.31	.10	.11	.06
8	.05	.06	.13	26	.04	.77	.64	.33	.34	.06	.12	.04
9	.11	.06	.14	3.1	.01	.77	.62	.23	.48	.05	.12	.07
10	.13	.05	.13	1.1	0	.64	.65	.14	.31	.07	.12	.04
11	.11	.06	.13	24	.01	.59	.71	.10	.14	.07	.11	.07
12	.11	.52	.13	1.4	0	.59	.53	.11	.08	.11	.18	.07
13	.10	.27	.12	.31	28	.57	.46	.12	.12	.13	.20	.05
14	.80	.15	.06	54	18	.51	.45	.09	.10	.12	.19	.07
15	1.1	.14	.04	39	2.6	2.0	.44	.08	.12	.11	.32	.10
16	.20	.15	.06	3.2	6.3	3.2	.36	.14	.20	.06	.21	.07
17	.05	.13	1.8	3.8	1.4	.61	.49	.17	.06	.10	.18	.09
18	.12	.16	.67	1.4	6.2	14	.26	.09	.09	.14	.28	.08
19	.07	.16	.10	.48	7.3	2.1	.26	.26	.07	.12	.19	.10
20	.04	18	.10	.32	29	1.0	.22	.33	.16	.14	.16	.09
21	.04	4.2	.08	.32	46	1.0	.23	.08	.10	.32	.20	.04
22	.08	2.1	.08	.21	49	.69	.23	.08	.14	.34	.18	.14
23	.06	.23	.11	.16	22	.57	.89	.14	.12	.27	.19	.23
24	.03	.19	.10	.17	6.2	.67	.23	.15	.11	.20	.16	.08
25	.04	.16	.09	.08	5.2	.76	.21	.25	.15	.28	.15	.12
26	.05	.16	.09	.02	5.8	12	4.1	.19	.10	.22	.19	.11
27	.06	.17	.12	0	2.7	63	1.3	.37	.14	.26	.18	.10
28	.07	.18	.12	.03	11	36	.58	.20	.16	.29	.18	.16
29	.08	.28	.09	.04	---	11	.48	.17	.12	.23	.18	.11
30	.04	.14	.08	4.6	---	4.5	.44	.23	.14	.23	.13	.11
31	.03	---	.07	.43	---	2.8	---	.22	---	.29	.14	---
TOTAL	4.10	28.21	6.65	169.46	247.87	178.71	24.20	8.59	5.94	4.85	5.80	2.86
MEAN	.13	.94	.21	5.47	8.85	5.76	.81	.28	.20	.16	.19	.095
MAX	1.1	.18	1.8	54	49	63	4.1	1.3	.71	.34	.45	.23
MIN	.03	.03	.04	0	0	.51	.21	.08	.06	.05	.11	.04
AC-FT	8.1	56	13	336	492	354	48	17	12	9.6	12	5.7
CAL YR 1978	TOTAL	1562.97	MEAN	4.28	MAX	177	MIN	.03	AC-FT	3100		
WTR YR 1979	TOTAL	687.24	MEAN	1.88	MAX	63	MIN	0	AC-FT	1360		

STEVENS CREEK BASIN

11166480 STEVENS CREEK RESERVOIR NEAR MONTE VISTA, CA

LOCATION.--Lat 37°17'55", long 122°04'34", in NW¼ sec.27, T.7 S., R.2 W., Santa Clara County, Hydrologic Unit 18050003, at center of dam on Stevens Creek, 2.0 mi (3.2 km) southwest of Monte Vista.

DRAINAGE AREA.--17.3 mi² (44.8 km²).

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

GAGE.--Nonrecording gage read once daily. Datum of gage is 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 (4.44 hm³) between elevations 444.9 ft (135.61 m), invert of outlet tunnel and 534.8 ft (163.01 m), crest of spillway. Water released down Stevens Creek for irrigation and ground-water recharge by percolation.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 4,100 acre-ft (5.06 hm³) Dec. 26, 1955, elevation, 538.61 ft (164.168 m); maximum elevation, 539.70 ft (164.501 m) Mar. 16, 1967; no contents at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 1,180 acre-ft (1.46 hm³) Apr. 4, elevation, 500.7 ft (152.62 m); minimum observed, 175 acre-ft (216,000 m³) Sept. 30, elevation, 469.1 ft (142.97 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Contents
Sept. 30, 1978.....	418
Oct. 31.....	376
Nov. 30.....	397
Dec. 31.....	450
Jan. 31, 1979.....	770
Feb. 28.....	1050
Mar. 31.....	1130
Apr. 30.....	1090
May 31.....	1110
June 30.....	852
July 31.....	590
Aug. 31.....	375
Sept. 30.....	175

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 Alamos Creek, 0.7 mi (1.1 km) southwest of New Almaden, and 7 mi (11 km) south of Edenvale. DRAINAGE AREA, 12.0 mi² (31.1 km²), revised. PERIOD OF RECORD, January 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 earthfill dam completed in 1936. Capacity, 1,780 acre-ft (2.19 hm³) between elevations 533.1 ft (162.49 m), invert of outlet tunnel and 606.9 ft (184.98 m), crest of spillway. Water released down Alamos Creek for ground-water recharge by percolation and minor irrigation. Up to 100 ft³/s (2.83 m³/s) diverted to Calero Reservoir at times. Record of contents furnished by Santa Clara Valley Water District.
- EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 2,150 acre-ft (2.65 hm³) Jan. 31, 1963, elevation, 610.24 ft (186.001 m), 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, 1,250 acre-ft (1.54 hm³) Feb. 24, elevation, 596.8 ft (181.91 m); minimum observed, 135 acre-ft (167,000 m³) Dec. 17, elevation, 555.3 ft (169.26 m).
- 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 (2.7 km) northeast of New Almaden, and 6 mi (10 km) southeast of Edenvale. DRAINAGE AREA, 6.93 mi² (17.95 km²), revised. PERIOD OF RECORD, January 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 earthfill dam completed to crest elevation 482.55 ft (147.081 m) in 1936 and raised to 483.5 ft (147.37 m) in 1962. Capacity, 10,160 acre-ft (12.5 hm³) between elevations 393.7 ft (120.00 m), center of outlet tunnel and 483.5 ft (147.37 m), crest of spillway. Water released down Arroyo Calero for ground-water recharge by percolation and minor irrigation. Up to 100 ft³/s (2.83 m³/s) diverted from Almaden Reservoir to Calero Reservoir at times. Record of contents furnished by Santa Clara Valley Water District.
- EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 10,520 acre-ft (13.0 hm³) Apr. 7, 1967, elevation, 485.21 ft (147.892 m); no contents at times in each year except 1942-45, 1963-78.
- EXTREMES FOR CURRENT YEAR: Maximum contents observed, 7,510 acre-ft (9.26 hm³) April 10, elevation, 475.6 ft (144.96 m); minimum observed, 1,690 acre-ft (2.08 hm³) Sept. 30, elevation, 444.2 ft (135.38 m).
- 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 (5.8 km) northwest of New Almaden, and 5.0 mi (8.0 km) southeast of Los Gatos. DRAINAGE AREA, 5.99 mi² (15.51 km²), revised. PERIOD OF RECORD, January 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 earthfill dam completed in 1936. Capacity, 3,740 acre-ft (4.61 hm³) between elevations 506.8 ft (154.47 m), invert of outlet tunnel and 617.3 ft (188.15 m), crest of spillway. Water released down Guadalupe Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.
- EXTREMES FOR PERIOD OF RECORD: Maximum contents 3,770 acre-ft (4.65 hm³) Apr. 15, 1978, elevation, 617.6 ft (188.24 m); maximum elevation, 619.26 ft (188.750 m) Feb. 1, 1963, from floodmarks; no contents at times in each year except 1941-43, 1962-63, 1966-67, 1974-78.
- EXTREMES FOR CURRENT YEAR: Maximum contents observed, 1,930 acre-ft (2.38 hm³) Apr. 21, elevation, 589.9 ft (179.80 m); minimum observed, 319 acre-ft (393,000 m³) Sept. 30, elevation, 544.9 ft (166.08 m).
- 11167950 LAKE ELSMAN.--Lat 37°07'51", long 121°55'47", in SE¼ 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 (11.7 km) southeast of Los Gatos. DRAINAGE AREA, 9.78 mi² (25.33 km²), revised. PERIOD OF RECORD, February 1951 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 San Jose Water Works).
- Reservoir is formed by earthfill dam completed in 1951; topped by a 2-foot (0.6-m) inflatable surcharge dam since 1956. Usable capacity, 6,280 acre-ft (7.74 hm³) between elevations 944 ft (287.7 m), elevation of outlet gates and 1,112 ft (338.9 m), top of 2-foot (0.6-m) inflatable surcharge dam. Dead storage, 60 acre-ft (74,000 m³). Water released down Los Gatos Creek for domestic and industrial use. Record of contents furnished by San Jose Water Works.
- EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 6,640 acre-ft (8.19 hm³) Jan. 31, 1963, elevation, 1,115.1 ft (339.88 m); no contents Nov. 30, 1968, Nov. 5, 1969, Oct. 31, 1972, Nov. 30, 1974.
- EXTREMES FOR CURRENT YEAR: Maximum contents observed, 4,260 acre-ft (5.25 hm³) May 4, elevation, 1,090.0 ft (332.23 m); minimum observed, 549 acre-ft (677,000 m³) Jan. 2, elevation, 1,019.2 ft (310.65 m).
- 11167980 LEXINGTON RESERVOIR.--Lat 37°12'06", long 121°59'17", in SE¼ 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 (2.7 km) south of Los Gatos. DRAINAGE AREA, 36.9 mi² (95.6 km²), revised. 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 (24.9 hm³) between elevations 519 ft (158.2 m), invert at outlet tunnel and 649.9 ft (198.09 m), crest of spillway. Dead storage, 31 acre-ft (38,200 m³). Water released down Los Gatos Creek for irrigation and ground-water recharge by percolation. 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, 23,190 acre-ft (28.6 hm³) Mar. 16, 1967, elevation, 654.00 ft (199.339 m); no contents at times in each year except 1963, 1966-74.
- EXTREMES FOR CURRENT YEAR: Maximum contents observed, 8,920 acre-ft (11.0 hm³) April 16, elevation, 614.6 ft (187.32 m); minimum observed, 3,110 acre-ft (3.84 hm³) Jan. 8, elevation 579.7 ft (176.70 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST) AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Almaden Reservoir	Calero Reservoir	Guadalupe Reservoir	Lake Elsmán	Lexington Reservoir
Sept. 30, 1978.....	328	5370	737	1540	5940
Oct. 31.....	205	4140	612	792	4130
Nov. 30.....	159	3940	526	629	3580
Dec. 31.....	142	3710	447	552	3200
Jan. 31, 1979.....	546	3710	651	1060	4290
Feb. 28.....	766	5670	1310	2420	7100
Mar. 31.....	1030	6980	1830	3470	8760
Apr. 30.....	1210	7390	1930	4240	8840
May 31.....	598	6600	1360	3930	8350
June 30.....	669	6330	1300	3170	7760
July 31.....	597	5480	1260	2300	7030
Aug. 31.....	416	3260	723	1360	6240
Sept. 30.....	223	1640	318	700	4740

GUADALUPE RIVER BASIN

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11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1978-79.

BIOLOGICAL DATA: Water years 1978-79.

NEAR SOUTH END (Lat 37°10'46", Long 121°59'07", in SE¼NE¼ sec.5, T.9 S., R.1 W., Santa Clara County, Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (M) <u>1/</u>	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	TRANS- PAR- ENCY (SECCHI DISK) (M)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
MAR											
22...	1304	.10	--	--	--	--	--	81	--	--	--
22...	1305	.50	--	--	--	--	--	46	--	--	--
22...	1306	1.0	--	--	--	--	--	25	--	--	--
22...	1307	1.5	--	--	--	--	--	16	--	--	--
22...	1308	2.0	--	--	--	--	--	10	--	--	--
22...	1309	2.5	--	--	--	--	--	6.5	--	--	--
22...	1310	3.0	--	--	--	--	--	3.8	--	--	--
22...	1311	3.5	--	--	--	--	--	2.8	--	--	--
22...	1312	4.0	--	--	--	--	--	1.6	--	--	--
22...	1313	4.5	--	--	--	--	--	1.2	--	--	--
22...	1314	4.6	--	--	--	--	--	1.0	--	--	--
22...	1315	--	--	--	--	--	1.60	--	--	--	--
22...	1322	.50	377	8.2	12.5	11.2	--	--	3.98	--	--
22...	1323	1.0	378	8.2	12.5	11.3	--	--	3.98	--	--
22...	1324	1.5	378	8.2	12.4	11.3	--	--	3.98	--	--
22...	1325	2.0	378	8.2	12.4	11.3	--	--	4.09	--	--
22...	1326	2.5	378	8.2	12.3	11.2	--	--	4.09	--	--
22...	1327	3.0	378	8.2	12.1	11.2	--	--	4.09	--	--
22...	1328	3.5	379	8.2	12.0	11.0	--	--	4.09	--	--
22...	1329	4.0	380	8.2	11.9	10.9	--	--	3.87	--	--
22...	1330	4.5	381	8.1	11.9	10.8	--	--	3.87	--	--
22...	1331	5.0	380	8.1	11.8	10.8	--	--	3.87	--	--
22...	1332	5.5	384	8.0	11.7	10.7	--	--	--	--	--
22...	1340	.10	--	--	--	--	--	--	--	--	--
22...	1345	1.0	378	8.2	12.5	11.3	--	--	--	4.79	.000
22...	1355	4.0	380	8.2	11.9	10.9	--	--	--	3.57	.000
JUN											
05...	1207	.10	--	--	--	--	--	87	--	--	--
05...	1208	.50	--	--	--	--	--	35	--	--	--
05...	1209	1.0	--	--	--	--	--	21	--	--	--
05...	1210	1.5	--	--	--	--	--	8.5	--	--	--
05...	1211	2.0	--	--	--	--	--	3.8	--	--	--
05...	1212	2.5	--	--	--	--	--	1.5	--	--	--
05...	1213	2.7	--	--	--	--	--	1.0	--	--	--
05...	1214	--	--	--	--	--	.80	--	--	--	--
05...	1215	.50	372	8.2	24.0	8.6	--	--	8.32	--	--
05...	1216	1.0	373	8.2	24.1	8.6	--	--	8.65	--	--
05...	1217	2.0	377	8.2	23.8	8.5	--	--	9.86	--	--
05...	1218	3.0	378	8.1	23.6	8.3	--	--	12.40	--	--
05...	1219	4.0	391	7.9	22.8	7.3	--	--	11.25	--	--
05...	1220	5.0	398	7.8	21.1	6.9	--	--	8.16	--	--
05...	1221	6.0	399	7.5	20.1	5.5	--	--	12.88	--	--
05...	1240	1.0	373	8.2	24.1	8.6	--	--	--	5.38	.000
05...	1245	5.0	398	7.8	21.1	6.9	--	--	--	3.59	.000

DATE	TIME	SAM- PLING DEPTH (M) <u>1/</u>	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)
MAR										
22...	1340	.10	--	--	--	--	K1	K2	--	--
22...	1345	1.0	378	8.2	12.5	11.3	--	--	190	66
22...	1355	4.0	380	8.2	11.9	10.9	--	--	190	66
JUN										
05...	1240	1.0	373	8.2	24.1	8.6	--	--	190	67
05...	1245	5.0	398	7.8	21.1	6.9	--	--	190	67
05...	1400	.10	--	--	--	--	<1	K4	--	--

1/ To convert meters to feet, multiply by 3.281.

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

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

NEAR SOUTH END--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	MAR 22,79 1345	MAR 22,79 1355	JUN 5,79 1240	JUN 5,79 1245				
TOTAL CELLS/ML	1200	2700	24000	9700				
DIVERSITY: DIVISION	1.7	1.8	0.0	0.0				
..CLASS	1.7	1.8	0.0	0.0				
...ORDER	2.1	2.3	0.9	0.8				
...FAMILY	2.1	2.6	1.4	1.2				
....GENUS	2.4	3.0	1.8	1.4				
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	--	1800	7	330	3		
....COELASTRACEAE								
....COELASTRUM	--	--	1000	4	500	5		
...MICRACTINIACEAE								
....MICRACTINIUM	20	2	--	--	--	--		
...OOCYSTACEAE								
....ANKISTRODESMUS	--	--	24	1	--	--		
....KIRCHNERIELLA	--	--	140	5	--	--		
....OOCYSTIS	10	1	94	4	13000#	55	6500#	67
....SELENASTRUM	--	--	--	--	1100	4	300	3
....WESTELLA	--	--	--	--	510	2	--	--
...TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	--	--	--	6500#	26	2000#	21
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	35	3	--	--	--	--	--	--
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCAEAE								
....CYCLOTELLA	86	7	390	15	--	--	--	--
....MELOSIRA	120	10	94	4	--	--	--	--
...PENNALES								
...FRAGILARIACEAE								
....ASTERIONELLA	40	3	*	0	--	--	--	--
....SYNEDRA	15	1	--	--	--	--	--	--
..CHRYSTOPHYCEAE								
...CHRYSONOMADALES								
...MALLOMONADACEAE								
....MALLOMONAS	--	--	*	0	--	--	--	--
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	--	--	--	130	1	--	--
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	35	3	380	14	--	--	--	--
....COCCOCHLORIS	--	--	200	7	--	--	--	--
...HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	610#	50	470#	18	--	--	--	--
....OSCILLATORIACEAE								
....OSCILLATORIA	--	--	240	9	--	--	--	--
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....EUGLENA	*	0	--	--	--	--	--	--
....TRACHELOMONAS	230#	19	610#	23	--	--	*	0
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	15	1	*	0	--	--	--	--

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT CENTER (Lat 37°11'08", long 121°59'17", in SE¼SE¼ sec.32, T.8 S., R.1 W., Santa Clara County, Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (M) <u>1/</u>	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	TRANS- PAR- ENCY (SECCHI DISK) (M)
MAR							
22...	1025	--	--	--	--	--	1.70
22...	1026	.10	--	--	--	--	--
22...	1027	.50	--	--	--	--	--
22...	1028	1.0	--	--	--	--	--
22...	1029	1.5	--	--	--	--	--
22...	1030	2.0	--	--	--	--	--
22...	1031	2.5	--	--	--	--	--
22...	1032	3.0	--	--	--	--	--
22...	1033	3.5	--	--	--	--	--
22...	1034	4.0	--	--	--	--	--
22...	1035	4.5	--	--	--	--	--
22...	1036	4.8	--	--	--	--	--
22...	1115	.50	365	8.3	12.6	11.2	--
22...	1116	1.0	366	8.3	12.5	11.7	--
22...	1117	2.0	368	8.3	12.3	12.3	--
22...	1118	3.0	367	8.3	12.2	12.7	--
22...	1119	4.0	368	8.3	12.2	13.2	--
22...	1120	5.0	369	8.2	12.1	13.5	--
22...	1121	6.0	372	8.1	12.0	13.4	--
22...	1122	7.0	377	7.9	11.7	13.2	--
22...	1123	8.0	384	7.8	11.3	12.3	--
22...	1124	9.0	386	7.7	10.9	11.5	--
22...	1125	10.0	383	7.6	10.4	10.8	--
22...	1126	11.0	382	7.5	10.1	10.5	--
22...	1127	12.0	378	7.5	9.9	10.0	--
22...	1128	13.0	375	7.5	9.8	9.9	--
22...	1129	13.7	375	7.5	9.8	9.6	--
22...	1225	.10	--	--	--	--	--
22...	1230	1.0	366	8.3	12.5	11.7	--
22...	1245	9.0	386	7.7	10.9	11.5	--
22...	1250	12.0	378	7.5	9.9	10.0	--
22...	1600	1.0	--	--	--	--	--
22...	1601	2.0	--	--	--	--	--
22...	1602	3.0	--	--	--	--	--
22...	1603	4.0	--	--	--	--	--
JUN							
05...	0927	.10	--	--	--	--	--
05...	0928	.50	--	--	--	--	--
05...	0929	1.0	--	--	--	--	--
05...	0930	1.5	--	--	--	--	--
05...	0931	2.0	--	--	--	--	--
05...	0932	3.0	--	--	--	--	--
05...	0933	3.5	--	--	--	--	--
05...	0934	--	--	--	--	--	1.20
05...	0935	.50	376	8.2	23.1	8.6	--
05...	0936	1.0	381	8.2	23.1	8.6	--
05...	0937	2.0	381	8.2	23.1	8.6	--
05...	0938	3.0	382	8.2	23.0	8.5	--
05...	0939	3.5	384	8.0	22.5	8.0	--
05...	0940	4.0	390	7.9	21.1	7.3	--
05...	0941	5.0	397	7.7	20.2	6.5	--
05...	0942	6.0	397	7.6	18.6	5.8	--
05...	0943	7.0	398	7.5	17.7	5.6	--
05...	0944	8.0	396	7.5	17.0	5.3	--
05...	0945	9.0	400	7.4	16.1	5.0	--
05...	0946	10.0	391	7.3	15.2	4.8	--
05...	0947	11.0	388	7.3	14.7	4.7	--
05...	0948	12.0	390	7.3	13.7	4.6	--
05...	0949	13.0	387	7.3	13.4	4.6	--
05...	0950	14.0	383	7.2	12.7	4.0	--
05...	0951	14.5	384	7.1	12.5	4.1	--
05...	1115	1.0	381	8.2	23.1	8.6	--
05...	1120	5.0	397	7.7	20.2	6.5	--
05...	1130	13.0	387	7.3	13.4	4.6	--
05...	1415	.10	--	--	--	--	--
05...	1530	1.0	--	--	--	--	--
05...	1531	2.0	--	--	--	--	--
05...	1532	3.0	--	--	--	--	--
05...	1533	3.7	--	--	--	--	--

1/ To convert meters to feet, multiply by 3.281.

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT CENTER--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	PRODUC- TIVITY, PRIMARY GROSS (MG O2/ CU M/D)	PRODUC- TIVITY, PRIMARY NET (MG O2/ CU M/D)	RESPI- RATION (MG O2/ M3/D)
MAR								
22...	1025	--	--	--	--	--	--	--
22...	1026	72	--	--	--	--	--	--
22...	1027	46	--	--	--	--	--	--
22...	1028	24	--	--	--	--	--	--
22...	1029	16	--	--	--	--	--	--
22...	1030	9.0	--	--	--	--	--	--
22...	1031	5.3	--	--	--	--	--	--
22...	1032	3.5	--	--	--	--	--	--
22...	1033	2.4	--	--	--	--	--	--
22...	1034	1.8	--	--	--	--	--	--
22...	1035	1.1	--	--	--	--	--	--
22...	1036	1.0	--	--	--	--	--	--
22...	1115	--	3.98	--	--	--	--	--
22...	1116	--	4.09	--	--	--	--	--
22...	1117	--	4.43	--	--	--	--	--
22...	1118	--	4.09	--	--	--	--	--
22...	1119	--	3.98	--	--	--	--	--
22...	1120	--	3.98	--	--	--	--	--
22...	1121	--	3.87	--	--	--	--	--
22...	1122	--	3.98	--	--	--	--	--
22...	1123	--	4.09	--	--	--	--	--
22...	1124	--	5.24	--	--	--	--	--
22...	1125	--	6.25	--	--	--	--	--
22...	1126	--	7.59	--	--	--	--	--
22...	1127	--	8.48	--	--	--	--	--
22...	1128	--	11.06	--	--	--	--	--
22...	1129	--	--	--	--	--	--	--
22...	1225	--	--	--	--	--	--	--
22...	1230	--	--	6.32	.000	--	--	--
22...	1245	--	--	2.16	.000	--	--	--
22...	1250	--	--	1.73	.000	--	--	--
22...	1600	--	--	--	--	1400	480	960
22...	1601	--	--	--	--	1400	1400	.0
22...	1602	--	--	--	--	.0	480	-480
22...	1603	--	--	--	--	1400	.0	1400
JUN								
05...	0927	83	--	--	--	--	--	--
05...	0928	55	--	--	--	--	--	--
05...	0929	22	--	--	--	--	--	--
05...	0930	10	--	--	--	--	--	--
05...	0931	5.9	--	--	--	--	--	--
05...	0932	1.7	--	--	--	--	--	--
05...	0933	1.0	--	--	--	--	--	--
05...	0934	--	--	--	--	--	--	--
05...	0935	--	6.15	--	--	--	--	--
05...	0936	--	6.38	--	--	--	--	--
05...	0937	--	6.44	--	--	--	--	--
05...	0938	--	6.34	--	--	--	--	--
05...	0939	--	--	--	--	--	--	--
05...	0940	--	6.86	--	--	--	--	--
05...	0941	--	6.93	--	--	--	--	--
05...	0942	--	5.93	--	--	--	--	--
05...	0943	--	4.68	--	--	--	--	--
05...	0944	--	4.43	--	--	--	--	--
05...	0945	--	4.32	--	--	--	--	--
05...	0946	--	3.38	--	--	--	--	--
05...	0947	--	3.19	--	--	--	--	--
05...	0948	--	3.28	--	--	--	--	--
05...	0949	--	3.28	--	--	--	--	--
05...	0950	--	3.57	--	--	--	--	--
05...	0951	--	3.67	--	--	--	--	--
05...	1115	--	--	3.79	.000	--	--	--
05...	1120	--	--	3.64	.000	--	--	--
05...	1130	--	--	.600	.000	--	--	--
05...	1415	--	--	--	--	--	--	--
05...	1530	--	--	--	--	2500	1500	1000
05...	1531	--	--	--	--	1500	1000	500
05...	1532	--	--	--	--	500	-500	1000
05...	1533	--	--	--	--	.0	-1000	1000

GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT CENTER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (M) 1/	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML)	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)
MAR												
22...	1225	.10	--	--	--	--	<1	K1	--	--	--	--
22...	1230	1.0	366	8.3	12.5	11.7	--	--	190	76	48	16
22...	1245	9.0	386	7.7	10.9	11.5	--	--	190	76	48	16
22...	1250	12.0	378	7.5	9.9	10.0	--	--	160	59	49	8.9
JUN												
05...	1115	1.0	381	8.2	23.1	8.6	--	--	190	68	47	17
05...	1120	5.0	397	7.7	20.2	6.5	--	--	190	72	49	17
05...	1130	13.0	387	7.3	13.4	4.6	--	--	180	66	44	16
05...	1415	.10	--	--	--	--	<1	K2	--	--	--	--

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	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)
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	15	15	.5	1.9	110	73	16	.2	10	248	.34
22...	15	15	.5	1.9	110	89	10	.2	11	260	.35
22...	15	17	.5	1.9	100	72	10	.2	11	231	.31
JUN											
05...	16	16	.5	1.9	120	76	11	.2	7.2	249	.34
05...	16	15	.5	2.0	120	75	12	.1	7.8	252	.34
05...	14	15	.5	1.9	110	72	12	.2	10	238	.32
05...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	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)
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	.36	.02	.38	.40	.04	.00	.33	.19	.37	.19	.75
22...	.50	.02	.52	.57	.04	.03	.28	.17	.32	.20	.84
22...	.59	.02	.61	.54	.06	.06	.23	.19	.29	.25	.90
JUN											
05...	.06	.02	.08	.11	.04	.00	.30	.19	.34	.19	.42
05...	.11	.04	.15	.16	.09	.01	.16	.20	.25	.21	.40
05...	.44	.00	.44	.38	.03	.00	.21	.29	.24	.29	.68
05...	--	--	--	--	--	--	--	--	--	--	--

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	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)
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	.02	.01	.02	--	--	--	--	--	--	--	--
22...	.02	.00	.01	--	--	--	--	--	--	--	--
22...	.02	.01	.02	--	--	--	--	--	--	--	--
JUN											
05...	.03	.01	.00	40	3	100	0	0	0	0	0
05...	.02	.01	.05	--	--	--	--	--	--	--	--
05...	.02	.01	.01	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	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)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	0	0	120	20	.0	0	0	0	0	240	10
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--

1/ To convert meters to feet, multiply by 3.281.

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

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT CENTER--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	MAR 22,79 1230	MAR 22,79 1245	MAR 22,79 1250	JUN 5,79 1115	JUN 5,79 1120	JUN 5,79 1130
TOTAL CELLS/ML	1100	2000	1200	9000	8300	340
DIVERSITY: DIVISION	1.8	1.9	1.8	0.1	0.1	0.4
..CLASS	1.8	1.9	1.8	0.1	0.1	0.4
..ORDER	2.0	2.2	2.1	0.7	0.7	0.4
..FAMILY	2.6	2.3	2.3	1.3	0.9	1.2
..GENUS	2.7	2.4	2.4	1.7	1.2	1.2
ORGANISM	CELLS /ML PER-CENT					
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
...SCHROEDERIA	-- -	-- -	-- -	1300 15	290 3	-- -
...MIRACTINIACEAE						
...GOLINKINIA	-- -	-- -	6 1	-- -	-- -	-- -
...OOCYSTACEAE						
...ANKISTRODESMUS	-- -	13 1	6 1	-- -	-- -	-- -
...KIRCHNERIELLA	35 3	89 4	13 1	-- -	-- -	-- -
...OOCYSTIS	40 4	51 3	25 2	5800# 64	6200# 75	210# 62
...SELENASTRUM	-- -	-- -	-- -	610 7	420 5	-- -
..SCENEDESMACEAE						
...SCENEDESMUS	-- -	51 3	13 1	130 1	-- -	100# 31
..TETRASPORALES						
...PALMELLACEAE						
...SPHAEROCYSTIS	-- -	-- -	-- -	980 11	1300# 15	-- -
..VOLVOCALES						
..CHLAMYDOMONADACEAE						
...CHLAMYDOMONAS	-- -	-- -	-- -	* 0	-- -	-- -
..VOLVOCAEAE						
...PANDORINA	-- -	410# 20	-- -	-- -	-- -	-- -
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCAEAE						
...CYCLOTELLA	50 5	360# 18	82 7	-- -	* 0	-- -
...MELOSIRA	30 3	-- -	13 1	-- -	-- -	-- -
..PENNALES						
...FRAGILARIACEAE						
...ASTERIONELLA	-- -	-- -	31 3	-- -	-- -	-- -
...FRAGILARIA	-- -	-- -	13 1	-- -	-- -	-- -
...SYNEDRA	-- -	13 1	-- -	-- -	-- -	-- -
...NAVICULACEAE						
...NAVICULA	-- -	-- -	6 1	-- -	-- -	-- -
...NITZSCHIAEAE						
...NITZSCHIA	* 0	-- -	38 3	-- -	64 1	-- -
...SURIRELLACEAE	-- -	13 1	-- -	-- -	-- -	-- -
...SURIRELLA	-- -	13 1	-- -	-- -	-- -	-- -
..CHRYSOPHYCEAE						
..CHRYSOMONADALES						
..MALLOMONADACEAE						
...MALLOMONAS	* 0	13 1	-- -	-- -	-- -	-- -
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
...CHROOMONAS	* 0	-- -	-- -	67 1	-- -	-- -
...CRYPTOMONADACEAE						
...CRYPTOMONAS	50 5	-- -	6 1	-- -	-- -	-- -
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
...ANACYSTIS	30 3	140 7	50 4	-- -	-- -	26 8
...HORMOGONALES						
...NOSTOCAEAE						
...ANABAENA	250# 24	-- -	-- -	-- -	-- -	-- -
...OSCILLATORIACEAE						
...OSCILLATORIA	330# 31	-- -	310# 27	-- -	-- -	-- -
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
...TRACHELONAS	210# 20	830# 41	530# 46	67 1	-- -	-- -
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
..PERIDINIALES						
...GLENODINIACEAE						
...GLENODINIUM	-- -	26 1	-- -	-- -	-- -	-- -
...PERIDINIACEAE						
...PERIDINIUM	15 1	-- -	13 1	-- -	-- -	-- -

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT DAM (Lat 37°11'57", long 121°59'12", in NE¼NE¼ sec.32, T.8 S., R.1 W., Santa Clara County, Hydrologic unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (M) <u>1</u> /	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	TRANS- PAR- ENCY (SECCHI DISK) (M)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT- ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
MAR											
22...	1409	.10	--	--	--	--	--	61	--	--	--
22...	1410	.50	--	--	--	--	--	34	--	--	--
22...	1411	1.0	--	--	--	--	--	26	--	--	--
22...	1412	1.5	--	--	--	--	--	16	--	--	--
22...	1413	2.0	--	--	--	--	--	9.0	--	--	--
22...	1414	2.5	--	--	--	--	--	5.5	--	--	--
22...	1415	3.0	--	--	--	--	--	3.8	--	--	--
22...	1416	3.5	--	--	--	--	--	2.5	--	--	--
22...	1417	4.0	--	--	--	--	--	1.6	--	--	--
22...	1418	4.5	--	--	--	--	--	1.1	--	--	--
22...	1419	4.6	--	--	--	--	--	1.0	--	--	--
22...	1420	--	--	--	--	--	1.50	--	--	--	--
22...	1429	.50	371	8.7	13.1	12.1	--	--	4.43	--	--
22...	1430	1.0	371	8.7	13.1	12.1	--	--	4.43	--	--
22...	1431	2.0	371	8.6	13.1	12.1	--	--	4.56	--	--
22...	1432	3.0	372	8.6	13.1	12.1	--	--	4.56	--	--
22...	1433	4.0	372	8.6	13.1	12.1	--	--	4.43	--	--
22...	1434	5.0	372	8.5	13.0	12.0	--	--	4.43	--	--
22...	1435	6.0	373	8.5	12.9	11.9	--	--	4.32	--	--
22...	1436	7.0	385	8.3	12.1	10.3	--	--	3.77	--	--
22...	1437	8.0	383	8.0	11.5	9.8	--	--	3.87	--	--
22...	1438	9.0	388	7.9	11.0	9.3	--	--	4.09	--	--
22...	1439	10.0	391	7.8	10.7	8.9	--	--	4.32	--	--
22...	1440	11.0	387	7.7	10.4	8.5	--	--	4.68	--	--
22...	1441	12.0	385	7.7	10.1	8.6	--	--	5.09	--	--
22...	1442	13.0	380	7.6	9.9	8.7	--	--	5.71	--	--
22...	1443	14.0	379	7.6	9.8	8.5	--	--	7.21	--	--
22...	1444	15.0	378	7.6	9.7	8.5	--	--	7.72	--	--
22...	1445	16.0	379	7.6	9.7	8.5	--	--	8.25	--	--
22...	1446	17.0	378	7.6	9.6	8.5	--	--	8.79	--	--
22...	1447	18.0	377	7.6	9.6	8.5	--	--	8.98	--	--
22...	1448	19.0	377	7.6	9.6	8.5	--	--	9.86	--	--
22...	1449	20.0	377	7.5	9.6	8.4	--	--	9.54	--	--
22...	1450	21.0	377	7.5	9.6	8.5	--	--	10.00	--	--
22...	1451	22.0	377	7.5	9.6	8.4	--	--	10.64	--	--
22...	1452	23.0	377	7.5	9.6	8.3	--	--	12.49	--	--
22...	1455	.10	--	--	--	--	--	--	--	--	--
22...	1500	1.0	371	8.7	13.1	12.1	--	--	--	9.67	.000
22...	1505	7.0	385	8.3	12.1	10.3	--	--	--	5.40	.000
22...	1515	20.0	377	7.5	9.6	8.4	--	--	--	--	--
JUN											
05...	1339	.10	--	--	--	--	--	86	--	--	--
05...	1340	.50	--	--	--	--	--	48	--	--	--
05...	1341	1.0	--	--	--	--	--	23	--	--	--
05...	1342	1.5	--	--	--	--	--	15	--	--	--
05...	1343	2.0	--	--	--	--	--	7.1	--	--	--
05...	1344	2.5	--	--	--	--	--	3.4	--	--	--
05...	1345	3.0	--	--	--	--	--	1.6	--	--	--
05...	1346	3.3	--	--	--	--	--	1.0	--	--	--
05...	1347	--	--	--	--	--	1.10	--	--	--	--
05...	1348	.50	375	8.2	23.5	8.7	--	--	6.24	--	--
05...	1349	1.0	377	8.2	23.4	8.7	--	--	6.24	--	--
05...	1350	2.0	376	8.2	22.5	8.7	--	--	6.64	--	--
05...	1351	3.0	377	8.2	22.2	8.6	--	--	7.16	--	--
05...	1352	4.0	380	8.0	21.8	7.5	--	--	6.97	--	--
05...	1353	5.0	393	7.6	18.5	6.0	--	--	5.71	--	--
05...	1354	6.0	392	7.6	17.7	5.9	--	--	4.43	--	--
05...	1355	7.0	389	7.5	17.4	5.8	--	--	4.09	--	--
05...	1357	8.0	392	7.5	17.0	5.6	--	--	3.77	--	--
05...	1359	9.0	391	7.4	16.5	5.5	--	--	3.47	--	--
05...	1400	10.0	388	7.4	16.0	5.3	--	--	3.38	--	--
05...	1402	11.0	390	7.3	15.4	4.9	--	--	3.19	--	--
05...	1403	12.0	387	7.3	14.0	4.7	--	--	3.19	--	--
05...	1405	13.0	386	7.3	13.3	4.8	--	--	3.19	--	--
05...	1406	14.0	380	7.2	12.8	4.8	--	--	3.19	--	--
05...	1408	15.0	379	7.2	12.4	4.8	--	--	3.19	--	--
05...	1409	16.0	376	7.2	12.1	4.7	--	--	3.38	--	--
05...	1411	17.0	370	7.2	11.6	4.6	--	--	3.57	--	--
05...	1430	.10	--	--	--	--	--	--	--	--	--
05...	1445	1.0	377	8.2	23.4	8.7	--	--	--	2.74	.000
05...	1455	5.0	393	7.6	18.5	6.0	--	--	--	2.21	.000
05...	1503	15.0	379	7.2	12.4	4.8	--	--	--	.000	.000

1/ To convert meters to feet, multiply by 3.281.

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (M) 1/	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
MAR										
22...	1455	.10	--	--	--	--	K4	K10	--	--
22...	1500	1.0	371	8.7	13.1	12.1	--	--	180	71
22...	1505	7.0	385	8.3	12.1	10.3	--	--	180	68
22...	1515	20.0	377	7.5	9.6	8.4	--	--	190	78
JUN										
05...	1430	.10	--	--	--	--	K7	34	--	--
05...	1445	1.0	377	8.2	23.4	8.7	--	--	190	70
05...	1455	5.0	393	7.6	18.5	6.0	--	--	200	81
05...	1503	15.0	379	7.2	12.4	4.8	--	--	190	78

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
MAR								
22...	--	--	--	--	--	--	--	--
22...	46	16	15	15	.5	1.9	110	73
22...	45	16	15	15	.5	1.9	110	73
22...	49	16	15	15	.5	1.9	110	13
JUN								
05...	--	--	--	--	--	--	--	--
05...	48	17	16	15	.5	1.9	120	77
05...	54	16	15	14	.5	1.9	120	74
05...	49	16	14	14	.4	2.0	110	81

DATE	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)	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)
MAR									
22...	--	--	--	--	--	--	--	--	--
22...	.2	9.6	239	.33	.33	.02	.35	.38	.02
22...	.2	9.8	243	.33	.35	.02	--	.42	.03
22...	.2	11	241	.33	.57	.02	.59	.63	.07
JUN									
05...	--	--	--	--	--	--	--	--	--
05...	.2	7.2	252	.34	.06	.02	.08	.11	.02
05...	.2	7.9	253	.34	.10	.08	.18	.17	.04
05...	.2	10	252	.34	.47	.00	.47	.44	.02

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)
MAR									
22...	--	--	--	--	--	--	--	--	--
22...	.00	.29	.15	.31	.15	.66	.02	.00	.01
22...	.01	.26	.20	.29	.21	.66	.02	.01	.01
22...	.06	.25	.22	.32	.28	.91	.03	.01	.02
JUN									
05...	--	--	--	--	--	--	--	--	--
05...	.01	.18	.16	.20	.17	.28	.02	.01	.02
05...	.00	.23	.20	.27	.20	.45	.02	.01	.00
05...	.00	.19	.20	.21	.20	.68	.02	.01	.07

1/ To convert meters to feet, multiply by 3.281.

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

AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	MAR 22,79 1500	MAR 22,79 1505	MAR 22,79 1515	JUN 5,79 1445	JUN 5,79 1455	JUN 5,79 1503
TOTAL CELLS/ML	9000	3600	870	7400	3600	1700
DIVERSITY: DIVISION	1.3	1.3	1.5	0.1	0.6	0.9
..CLASS	1.3	1.3	1.5	0.1	0.6	0.9
...ORDER	2.2	2.0	1.8	0.1	0.8	0.9
...FAMILY	2.4	2.2	1.8	1.0	1.0	1.2
...GENUS	2.8	2.4	2.1	1.5	1.1	1.3

ORGANISM	CELLS /ML	PER- CENT										
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
...CHARACIACEAE												
...SCHROEDERIA	--	-	--	-	--	-	740	10	--	-	--	-
...COELASTRACEAE												
...COELASTRUM	--	-	--	-	--	-	540	7	--	-	--	-
...OOCYSTACEAE												
...ANKISTRODESMUS	--	-	19	1	--	-	*	0	--	-	--	-
...CLOSTERIOPSIS	*	0	--	-	--	-	--	-	--	-	--	-
...KIRCHNERIELLA	270	3	57	2	--	-	--	-	--	-	--	-
...OOCYSTIS	240	3	76	2	--	-	5200#	70	2900#	79	300#	17
...SELENASTRUM	--	-	--	-	--	-	740	10	26	1	13	1
...SCENEDESMACEAE												
...CRUCIGENIA	91	1	--	-	--	-	--	-	--	-	--	-
...SCENEDESMUS	61	1	38	1	--	-	67	1	130	4	260	15
...TETRASPORALES												
...PALMELLACEAE												
...GLOEOCYSTIS	240	3	--	-	--	-	--	-	--	-	--	-
...SPHAEROCYSTIS	--	-	--	-	--	-	--	-	100	3	--	-
CHRYSOPHYTA												
..BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCAEAE												
...CYCLOTELLA	240	3	220	6	94	11	--	-	--	-	--	-
...MELOSIRA	150	2	130	4	69	8	--	-	--	-	--	-
..PENNALES												
...FRAGILARIACEAE												
...ASTERIONELLA	61	1	38	1	63	7	--	-	--	-	--	-
...SYNEDRA	--	-	*	0	31	4	--	-	--	-	--	-
...NITZSCHIAEAE												
...NITZSCHIA	--	-	--	-	6	1	--	-	*	0	--	-
..CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...MALLOMONADACEAE												
...MALLOMONAS	--	-	47	1	--	-	--	-	--	-	--	-
...OCHROMONADACEAE												
...OCHROMONAS	--	-	*	0	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
..CRYPTOPHYCEAE												
...CRYPTOMONADALES												
...CRYPTOMONADACEAE												
...CRYPTOMONAS	--	-	--	-	--	-	100	1	26	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
...ANACYSTIS	1000	11	570#	16	160#	19	--	-	--	-	--	-
...COCCOCHLORIS	2200#	24	28	1	--	-	--	-	--	-	--	-
...HORMOGONALES												
...NOSTOCACEAE												
...ANABAENA	3000#	34	2000#	54	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE												
...OSCILLATORIA	300	3	95	3	--	-	--	-	450	12	1200#	67
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
...PHACUS	--	-	--	-	6	1	--	-	--	-	--	-
...TRACHELONAS	910	10	300	8	430#	50	*	0	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
...PERIDIINALES												
...GLENODINIACEAE												
...GLENODINIUM	120	1	28	1	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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 (30 km) downstream from Los Gatos Creek.

DRAINAGE AREA.--146 mi² (378 km²), revised.

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 (21.946 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good. Flow regulated by Lexington Reservoir 12 mi (19 km) upstream and Calero, Almaden, Guadalupe Reservoirs, and Lake Elsmar given elsewhere in this report, with water released during summer for percolation in spreading basins on tributaries. During current year, 12,110 acre-ft (14.9 hm³) was diverted by San Jose Water Works for urban use and 186 acre-ft (229,000 m³) was diverted by Santa Clara Valley Water District into Alamitos percolation ponds from Coyote Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft³/s (259 m³/s) Apr. 2, 1958, gage height, 16.55 ft (5.044 m); no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,210 ft³/s (90.9 m³/s) Jan. 8, gage height, 6.75 ft (2.057 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	2.9	2.5	17	52	22	.34	1.4	.59	.32	.16
2		0	3.5	1.7	17	19	19	1.4	1.0	.61	.31	.06
3		0	4.4	.08	4.0	11	8.0	1.6	.58	.45	.63	.13
4		0	2.3	0	3.6	8.6	2.1	1.4	.69	.34	.70	0
5		0	.40	1.6	3.8	8.3	1.6	5.2	.94	.31	3.9	0
6		1.2	.03	2.4	7.9	4.6	2.1	.59	.83	.59	.50	.06
7		0	.06	16	5.8	.68	1.5	1.3	.68	.67	.47	.08
8		0	.34	413	5.4	.90	2.0	1.9	.63	.92	.41	.03
9		0	.18	40	2.8	.84	3.5	1.4	.58	1.1	.43	0
10		0	.07	15	2.9	.99	3.2	.80	.37	1.1	.39	0
11		0	.02	52	2.7	1.1	6.2	.61	.53	1.0	.47	0
12		0	.15	19	2.7	2.0	7.5	.51	.51	.71	1.1	0
13		0	.13	4.0	154	2.7	.29	.84	.56	.75	.63	0
14		.38	.05	175	145	1.4	.24	.99	.61	.62	.53	.22
15		1.8	.11	556	35	6.5	.23	.63	.48	.42	2.6	.16
16		1.3	.01	86	137	32	.36	.62	.47	.78	.45	0
17		.30	1.6	59	23	13	.50	1.1	.44	.57	.56	.01
18		.19	14	34	42	27	.85	.66	.61	.58	.32	.01
19		.22	7.3	11	36	15	.89	.81	.42	.81	.86	.02
20		67	2.4	7.2	124	4.3	.46	1.0	.45	.77	2.0	.02
21		61	2.2	4.4	129	3.0	.32	1.6	.62	3.8	.80	.03
22		74	1.7	2.3	235	2.6	.24	1.3	.71	8.1	.19	.03
23		6.4	2.8	.75	173	2.6	96	.74	.87	.98	.16	.04
24		4.3	1.8	.28	61	3.5	5.0	.50	.82	.72	.20	.03
25		3.2	.63	.26	35	2.0	1.5	.45	1.0	.81	.13	.05
26		2.6	.43	.18	41	50	18	.31	1.4	.80	0	.05
27		1.9	6.7	.60	18	354	2.5	.49	.95	.70	.07	.06
28		1.6	.17	.38	41	209	.83	.76	1.2	2.6	.07	.06
29		1.4	.01	1.0	---	92	.50	.87	1.1	1.6	.16	.07
30		2.2	3.3	58	---	42	.36	.49	.64	5.2	.37	.07
31		---	3.5	22	---	26	---	.93	---	.42	.23	---
TOTAL	0	230.99	63.19	1585.63	1504.6	998.61	207.77	32.14	22.09	39.42	19.96	1.45
MEAN	0	7.70	2.04	51.1	53.7	32.2	6.93	1.04	.74	1.27	.64	.048
MAX	0	74	14	556	235	354	96	5.2	1.4	8.1	3.9	.22
MIN	0	0	.01	0	2.7	.68	.23	.31	.37	.31	0	0
AC-FT	0	458	125	3150	2980	1980	412	64	44	78	40	2.9
CAL YR 1978	TOTAL	27742.55	MEAN	76.0	MAX	2820	MIN	0	AC-FT	55030		
WTR YR 1979	TOTAL	4705.85	MEAN	12.9	MAX	556	MIN	0	AC-FT	9330		

GUADALUPE RIVER BASIN

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 (0.8 km) southwest of Saratoga, and 0.7 mi (1.1 km) downstream from diversion dam.

DRAINAGE AREA.--9.22 mi² (23.88 km²).

PERIOD OF RECORD.--October 1933 to current year. Prior to October 1951, published as Campbell Creek at Saratoga.

REVISED RECORDS.--WSP 1445: 1940, 1952(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 500 ft (152 m), from topographic map. Prior to Dec. 6, 1968, at site 40 ft (12 m) downstream at different datum.

REMARKS.--Records fair including those for periods of no gage-height record, Oct. 4-25 and Feb. 14 to Apr. 11. Water is diverted for municipal use by San Jose Water Works at diversion dam above station.

AVERAGE DISCHARGE (adjusted for diversion).--46 years, 9.83 ft³/s (0.278 m³/s), 7,120 acre-ft/yr (8.78 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,730 ft³/s (77.3 m³/s) Dec. 22, 1955, gage height, 6.40 ft (1.951 m) site and datum then in use, from rating curve extended above 510 ft³/s (14.4 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 110 ft³/s (3.1 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 15	0045	307	8.69	4.40	1.341	Feb. 22	unknown	*unknown	unknown	unknown	unknown
Feb. 13	2200	169	4.79	3.98	1.213	Mar. 28	unknown	141	3.99	3.87	1.180

Minimum daily discharge, 0.21 ft³/s (0.006 m³/s) Aug. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.74	1.1	2.1	1.4	3.2	120	23	2.9	.57	.24	.24	.50
2	.70	1.5	2.2	1.4	3.2	85	20	2.8	.46	.33	.31	.50
3	.66	1.5	2.1	1.4	3.0	36	18	2.5	.49	.67	.21	.51
4	1.1	1.6	1.8	1.4	2.9	18	16	2.6	.47	.51	.23	.51
5	1.4	1.7	1.5	1.6	2.9	14	15	2.9	.44	.52	.22	.49
6	1.6	1.8	1.3	1.6	2.7	11	13	2.5	.58	.49	.28	.50
7	1.8	1.8	1.4	1.7	2.6	10	12	2.8	.50	.56	.46	.44
8	1.7	1.7	1.5	1.3	2.6	9.3	11	2.3	.49	.43	.47	.53
9	1.5	1.7	1.5	5.3	2.6	9.2	11	2.0	.38	.44	.46	.55
10	1.4	1.8	1.5	3.4	2.6	8.6	10	1.7	.32	.34	.46	.58
11	1.2	1.9	1.5	1.9	2.6	9.0	9.5	1.7	.34	.30	.47	.55
12	1.1	2.0	1.6	9.0	2.5	9.6	8.7	1.6	.32	.31	.47	.63
13	.92	2.2	1.6	5.0	3.9	9.8	8.0	1.4	.34	.26	.47	.63
14	.94	2.1	1.5	4.0	1.5	11	6.6	1.3	.35	.25	.52	.42
15	1.0	2.0	1.6	7.3	6.6	18	5.2	1.3	.38	.32	.50	.43
16	1.1	2.0	1.7	2.0	1.5	3.1	5.6	1.1	.40	.42	.52	.41
17	1.2	2.1	4.8	1.2	9.4	2.0	5.9	.97	.40	.71	.48	.40
18	1.3	2.1	3.1	8.5	8.6	2.5	5.1	1.2	.37	.55	.45	.43
19	1.4	2.4	2.1	6.1	1.0	3.9	4.2	.96	.32	.28	.48	.43
20	1.6	5.4	1.8	6.2	2.0	2.5	3.7	1.1	.29	.37	.45	.40
21	1.8	5.2	1.7	5.6	9.0	2.1	3.0	1.0	.28	.97	.50	.41
22	2.0	7.3	1.6	5.7	18.0	2.0	2.8	1.1	.28	.75	.45	.44
23	1.8	3.9	1.6	4.1	8.0	2.4	1.1	.83	.29	.46	.43	.46
24	1.5	3.2	1.5	4.2	4.9	1.7	5.7	.90	.27	.35	.46	.51
25	.92	2.8	1.5	3.7	4.5	1.5	3.7	.64	.38	.36	.44	.68
26	.73	2.6	1.6	3.5	6.1	1.3	7.1	1.1	.28	.35	.45	.66
27	.78	2.5	1.5	3.8	4.4	5.4	5.1	2.0	.27	.34	.44	.58
28	.80	2.4	1.5	3.8	4.4	9.0	3.9	1.3	.24	.34	.45	.59
29	.80	2.2	1.5	3.0	---	7.2	3.3	.69	.27	.34	.47	.57
30	.82	2.0	1.4	6.0	---	4.5	3.0	.76	.25	.32	.50	.61
31	.90	---	1.4	3.6	---	3.0	---	.82	---	.29	.49	---
TOTAL	37.21	74.5	55.0	278.0	750.0	919.5	260.1	48.77	11.02	13.17	13.23	15.35
MEAN	1.20	2.48	1.77	8.97	26.8	29.7	8.67	1.57	.37	.42	.43	.51
MAX	2.0	7.3	4.8	7.3	18.0	12.0	2.3	2.9	.58	.97	.52	.68
MIN	.66	1.1	1.3	1.4	2.5	8.6	2.8	.64	.24	.24	.21	.40
AC-FT	74	148	109	551	1490	1820	516	97	22	26	26	30
(†)	0	0	0	0	4	17	76	188	140	59	6	0
CAL YR 1978	TOTAL	6271.49	MEAN	17.2	MAX	56.0	MIN	.10	AC-FT	12440	†	1270
WTR YR 1979	TOTAL	2475.85	MEAN	6.78	MAX	18.0	MIN	.21	AC-FT	4910	†	490

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

COYOTE CREEK BASIN

11169800 COYOTE CREEK NEAR GILROY, CA

LOCATION.--Lat 37°04'40", long 121°29'36", in NE¼SE¼ sec.11, T.10 S., R.4 E., Santa Clara County, Hydrologic Unit 18050003, on left bank 0.7 mi (1.1 km) downstream from Bear Creek, 5.0 mi (8.0 km) upstream from Coyote Creek Dam, and 6.4 mi (10.3 km) northeast of Gilroy.

DRAINAGE AREA.--109 mi² (282 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 790 ft (241 m), from topographic map. Prior to Nov. 14, 1963, at site 0.4 mi (0.6 km) downstream at different datum.

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

AVERAGE DISCHARGE.--19 years, 43.0 ft³/s (1.218 m³/s), 31,150 acre-ft/yr (38.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/s (286 m³/s) Jan. 31, 1963, gage height, 12.60 ft (3.840 m) site and datum then in use, from rating curve extended above 3,200 ft³/s (90.6 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 15	0900	1100	31.2	6.59	2.009
Feb. 21	0945	*2500	70.8	8.60	2.621

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	21	66	36	6.5	1.6	.41	.08	
2				0	26	53	30	6.3	1.3	.43	.07	
3				0	21	44	25	6.0	1.2	.42	.06	
4				0	16	38	22	5.6	1.1	.39	.05	
5				0	13	33	20	5.3	1.0	.38	.03	
6				0	12	29	19	5.7	.92	.33	.03	
7				0	12	26	18	6.6	.84	.30	.03	
8				0	11	24	16	6.5	.87	.30	.02	
9				36	9.1	22	15	5.7	.86	.29	.02	
10				8.3	8.0	20	14	5.2	.80	.30	.02	
11				8.9	7.3	18	14	5.0	.76	.28	.01	
12				45	6.7	17	13	4.9	.73	.26	.01	
13				11	8.5	16	12	4.9	.73	.24	.01	
14				42	362	15	11	4.7	.68	.24	.01	
15				438	96	17	11	4.7	.66	.22	.01	
16				100	91	25	10	4.4	.65	.21	0	
17				34	71	25	11	4.5	.71	.20	0	
18				30	56	20	10	4.2	.66	.17	0	
19				20	99	19	9.1	4.3	.62	.17	0	
20				14	336	17	8.8	4.0	.58	.16	0	
21				12	1130	16	8.4	4.0	.57	.16	0	
22				9.9	719	15	8.1	3.9	.55	.14	0	
23				8.9	570	14	8.1	3.9	.51	.13	0	
24				8.3	221	13	8.5	3.9	.48	.12	0	
25				7.4	122	13	7.7	3.8	.47	.11	0	
26				6.1	86	12	8.4	3.6	.49	.10	0	
27				5.3	63	35	10	3.0	.46	.10	0	
28				5.1	51	127	8.6	2.8	.42	.10	0	
29				4.7	---	104	7.2	2.4	.39	.09	0	
30				6.1	---	62	6.7	2.2	.41	.08	0	
31		---		14	---	45	---	1.9	---	.08	0	---
TOTAL	0	0	0	875.0	4244.6	1000	406.6	140.4	22.02	6.91	.46	0
MEAN	0	0	0	28.2	152	32.3	13.6	4.53	.73	.22	.015	0
MAX	0	0	0	438	1130	127	36	6.6	1.6	.43	.08	0
MIN	0	0	0	0	6.7	12	6.7	1.9	.39	.08	0	0
AC-FT	0	0	0	1740	8420	1980	806	278	44	14	.9	0
CAL YR 1978	TOTAL	30625.32	MEAN 83.9	MAX 3060	MIN 0	AC-FT 60750						
WTR YR 1979	TOTAL	6695.99	MEAN 18.3	MAX 1130	MIN 0	AC-FT 13280						

COYOTE CREEK BASIN

RESERVOIRS IN COYOTE CREEK BASIN, CA

11169850 COYOTE LAKE.--Lat 37°07'06", long 121°32'55", in SE¼ sec.29, T.9 S., R.4 E., Santa Clara County, Hydrologic Unit 18050003, at center of dam on Coyote Creek, 3.8 mi (6.1 km) northeast of San Martin. DRAINAGE AREA, 120 mi² (311 km²). PERIOD OF RECORD, February 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. 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 (29.2 hm³) between elevations 693.3 ft (211.32 m), invert of outlet tunnel and 777.2 ft (236.89 m), crest of spillway. Water released down Coyote Creek for storage in Anderson Lake. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 28,120 acre-ft (34.7 hm³) Dec. 8, 1950, elevation, 782.5 ft (238.51 m); no contents at times.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 20,110 acre-ft (24.8 hm³) Mar. 30, elevation, 771.5 ft (235.15 m); minimum observed, 9,250 acre-ft (11.4 hm³) Jan. 8, 9, elevation 749.8 ft (228.54 m).

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 (4.0 km) northeast of Madrone. DRAINAGE AREA, 195 mi² (505 km²). PERIOD OF RECORD, December 1950 to current year. Monthly contents prior to October 1959, published in WSP 1735. 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 (113 hm³) between elevations 439 ft (133.8 m), invert of outlet tunnel and 625.0 ft (190.50 m), crest of spillway. Water released down Coyote Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 95,990 acre-ft (118 hm³) Apr. 3, 1958, elevation, 628.67 ft (191.619 m), from floodmarks; no contents at times in 1960-62.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 42,820 acre-ft (52.8 hm³) April 15, elevation, 575.2 ft (175.31 m); minimum observed, 21,330 acre-ft (26.3 hm³) Sept. 30, elevation, 539.7 ft (164.50 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Date	Coyote Lake	Anderson Lake
Sept. 30, 1978.....	16630	39500
Oct. 31.....	13870	37550
Nov. 30.....	9980	38360
Dec. 31.....	9330	37790
Jan. 31, 1979.....	10540	38200
Feb. 28.....	19140	40390
Mar. 31.....	19790	42170
Apr. 30.....	19380	42090
May 31.....	18900	37880
June 30.....	18000	33010
July 31.....	17110	28390
Aug. 31.....	16140	23930
Sept. 30.....	14030	21250

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 (1.9 km) downstream from Anderson Dam; and 1.8 mi (2.9 km) northeast of Madrone.

DRAINAGE AREA.--196 mi² (508 km²).

PERIOD OF RECORD.--October 1902 to September 1912, December 1916 to current year. Records for water years 1917-19 incomplete, yearly estimates published in WSP 1315-B. Published as Coyote River near Madrone 1902-12, 1916-26.

REVISED RECORDS.--WSP 1345: 1932, 1935(M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 375 ft (114 m), from topographic map. Prior to Mar. 1, 1950, nonrecording gage and water-stage recorders at various sites within 1.4 mi (2.3 km) upstream at different datums.

REMARKS.--Records good. Flow regulated by Coyote (station 11169880) and Anderson (station 11169920) Lakes; water released during summer. Water is diverted to Main Avenue percolation ponds by Santa Clara Valley Water District.

AVERAGE DISCHARGE (unadjusted).--73 years, 63.2 ft³/s (1.790 m³/s), 45,790 acre-ft/yr (56.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s (708 m³/s) probably Mar. 7, 1911 (record furnished by Duryea, Haehl, and Gilman); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87 ft³/s (2.46 m³/s) May 16, 17, gage height, 2.48 ft (0.756 m); minimum daily 0.01 ft³/s (<0.001 m³/s) Feb. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	45	20	8.9	7.1	12	9.6	58	78	68	71	63
2	57	46	20	8.3	6.8	11	12	54	78	65	72	63
3	56	45	20	7.6	6.7	10	13	47	79	65	72	65
4	56	44	18	7.8	6.7	12	10	47	79	65	72	65
5	59	45	14	8.8	6.8	12	10	47	79	65	72	65
6	64	44	14	9.6	7.1	12	9.0	47	79	65	72	63
7	64	44	14	9.6	7.2	12	9.3	47	79	65	73	62
8	64	45	12	10	7.6	11	9.5	47	78	65	74	62
9	63	42	9.0	9.0	7.8	11	9.6	47	76	65	72	62
10	62	40	9.0	9.0	6.6	11	13	54	76	65	73	61
11	61	40	9.0	7.5	.39	11	17	68	76	64	73	59
12	60	41	9.0	.50	.01	11	17	77	76	64	73	59
13	62	41	8.6	.03	.14	11	17	77	75	64	68	59
14	62	41	8.6	.14	3.9	10	17	72	76	65	64	60
15	63	42	9.0	.50	17	10	17	69	77	66	64	61
16	57	42	8.9	1.9	16	10	17	75	76	72	66	60
17	54	42	9.0	10	16	10	17	81	76	76	66	60
18	53	42	9.9	10	16	10	16	79	76	75	67	60
19	53	42	9.7	8.4	16	10	15	79	76	75	65	60
20	52	43	9.7	3.5	17	9.8	15	80	76	76	66	60
21	50	43	9.3	3.2	17	9.8	15	79	76	78	66	60
22	50	43	9.0	3.3	13	9.8	15	78	76	76	66	59
23	49	42	9.0	4.9	1.4	9.8	15	78	76	71	66	59
24	47	42	9.0	7.3	.66	9.8	20	78	76	71	65	58
25	45	42	9.0	7.6	.54	9.8	35	78	74	71	64	58
26	45	42	9.0	7.8	4.1	9.6	46	78	70	71	64	58
27	49	42	9.0	7.8	12	9.6	45	79	67	72	63	59
28	49	31	9.0	7.8	12	9.6	45	79	67	71	63	54
29	49	20	8.8	7.8	---	9.6	46	79	68	71	62	49
30	47	20	9.0	8.0	---	9.6	52	79	68	72	62	49
31	46	---	8.8	7.8	---	9.6	---	78	---	71	61	---
TOTAL	1705	1223	340.3	204.37	233.54	323.4	604.0	2115	2259	2145	2097	1792
MEAN	55.0	40.8	11.0	6.59	8.34	10.4	20.1	68.2	75.3	69.2	67.6	59.7
MAX	64	46	20	10	17	12	52	81	79	78	74	65
MIN	45	20	8.6	.03	.01	9.6	9.0	47	67	64	61	49
AC-FT	3380	2430	675	405	463	641	1200	4200	4480	4250	4160	3550
(+)	351	342	265	196	75	0.48	97	333	273	144	16	27

CAL YR 1978 TOTAL 15883.18 MEAN 43.5 MAX 89 MIN 0 AC-FT 31500 + 5960
WTR YR 1979 TOTAL 15041.61 MEAN 41.2 MAX 81 MIN .01 AC-FT 29840 + 2120

+ Diversion, in acre-feet, to Main Avenue percolation ponds, furnished by Santa Clara Valley Water District.

11173200 ARROYO HONDO NEAR SAN JOSE, CA

LOCATION.--Lat 37°27'42", long 121°46'06", in NE¼NE¼ sec.32, T.5 S., R.2 E., Santa Clara County, Hydrologic Unit 18050004, on right bank 150 ft (46 m) upstream from road bridge, 3.5 mi (5.6 km) southeast of Calaveras Dam, 3.5 mi (5.6 km) northeast of city limits of San Jose.

DRAINAGE AREA.--77.1 mi² (199.7 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 783.86 ft (238.921 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--11 years, 46.1 ft³/s (1.306 m³/s), 33,400 acre-ft/yr (41.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft³/s (131 m³/s) Jan. 26, 1969, gage height, 10.94 ft (3.335 m); minimum daily, 0.11 ft³/s (0.003 m³/s) July 28-30, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (23 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 15	0715	847	24.0	6.95	2.118
Feb. 22	1815	*2030	57.5	8.65	2.637

Minimum daily discharge, 0.48 ft³/s (0.014 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.2	2.3	2.7	20	262	80	14	4.6	1.9	.74	.72
2	1.2	1.1	2.4	2.7	21	172	64	13	4.4	1.9	.72	.72
3	1.2	1.1	2.5	2.7	22	125	52	13	4.1	1.8	.71	.71
4	1.2	1.2	2.6	2.7	21	95	44	12	3.9	1.8	.69	.72
5	1.2	1.3	2.4	2.7	21	75	39	11	3.9	1.7	.68	.71
6	1.2	1.5	2.4	2.7	22	61	36	12	3.7	1.7	.66	.70
7	1.1	1.5	2.4	2.9	23	51	34	13	3.4	1.7	.65	.69
8	1.1	1.5	2.3	4.9	22	45	30	18	3.2	1.7	.72	.70
9	1.1	1.7	2.3	4.1	21	42	29	16	3.0	1.7	.75	.70
10	1.1	2.0	2.3	17	19	36	26	14	2.9	1.7	.71	.68
11	1.1	2.0	2.3	142	18	32	27	12	2.9	1.7	.69	.66
12	1.1	2.1	2.3	137	18	30	26	11	2.8	1.6	.69	.64
13	1.1	2.0	2.6	49	18	28	23	10	2.7	1.5	.72	.62
14	1.1	2.0	2.7	95	204	25	21	9.8	2.6	1.4	.72	.62
15	1.1	2.6	2.7	607	117	26	20	9.4	2.6	1.4	.72	.62
16	1.1	3.0	2.7	169	200	35	20	9.1	2.6	1.3	.70	.61
17	1.1	5.1	3.3	74	143	34	24	8.6	2.7	1.3	.67	.61
18	1.2	4.8	4.0	76	86	30	23	8.2	2.9	1.2	.63	.61
19	1.2	3.0	7.9	53	129	38	19	7.9	3.0	1.1	.63	.62
20	1.3	2.6	7.0	40	248	32	18	7.7	2.8	1.1	.64	.62
21	1.4	2.5	5.2	34	950	36	17	7.3	2.7	1.1	.65	.62
22	1.4	2.4	4.3	30	884	32	16	7.3	2.6	1.1	.67	.55
23	1.4	2.4	3.9	27	680	28	22	7.0	2.5	1.0	.66	.53
24	1.3	2.4	3.8	25	312	25	24	6.6	2.3	.97	.67	.53
25	1.3	2.4	3.4	23	190	23	19	6.4	2.3	.91	.68	.53
26	1.4	2.9	3.4	21	159	22	18	5.9	2.3	.91	.69	.53
27	1.4	2.5	3.4	20	119	225	20	5.6	2.2	.93	.68	.53
28	1.4	2.6	3.4	19	94	389	17	5.6	2.1	.92	.71	.52
29	1.3	2.5	3.1	18	---	250	15	5.4	2.1	.86	.73	.51
30	1.3	2.4	3.1	18	---	157	14	5.1	2.1	.81	.75	.48
31	1.3	---	2.8	21	---	107	---	4.8	---	.78	.72	---
TOTAL	37.9	68.3	101.2	1780.0	4781	2568	837	296.7	87.9	41.49	21.45	18.61
MEAN	1.22	2.28	3.26	57.4	171	82.8	27.9	9.57	2.93	1.34	.69	.62
MAX	1.4	5.1	7.9	607	950	389	80	18	4.6	1.9	.75	.72
MIN	1.1	1.1	2.3	2.7	18	22	14	4.8	2.1	.78	.63	.48
AC-FT	75	135	201	3530	9480	5090	1660	589	174	82	43	37
CAL YR 1978	TOTAL	24682.10	MEAN	67.6	MAX	1920	MIN	1.1	AC-FT	48960		
WTR YR 1979	TOTAL	10639.55	MEAN	29.1	MAX	950	MIN	.48	AC-FT	21100		

ALAMEDA CREEK BASIN

11176000 ARROYO MOCHO NEAR LIVERMORE, CA

LOCATION.--Lat 37°37'35", long 121°42'13", in NW¼SE¼ sec.36, T.3 S., R.2 E., Alameda County, Hydrologic Unit 18050004, on right bank 40 ft (12 m) downstream from Mines Road bridge, 2.4 mi (3.9 km) upstream from small right-bank tributary, and 5.2 mi (8.4 km) southeast of Livermore.

DRAINAGE AREA.--38.2 mi² (98.9 km²).

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. Concrete control since Aug. 5, 1964 (ineffective due to gravel fill). Datum of gage is 746.49 ft (227.530 m) National Geodetic Vertical Datum of 1929. 1912 to October 1914 at present site at different datum. November 1914 to Sept. 30, 1930, at site 1 mi (2 km) upstream at different datum.

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

AVERAGE DISCHARGE.--34 years, 4.28 ft³/s (0.121 m³/s), 3,100 acre-ft/yr (3.82 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 1,680 ft³/s (47.6 m³/s) Mar. 5, 1978, gage height, 7.66 ft (2.335 m), from rating curve extended above 270 ft³/s (7.65 m³/s); maximum daily discharge, 1,000 ft³/s (28.3 m³/s) Jan. 25, 1914 (estimated); no flow for parts of most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, discharge 1,880 ft³/s (53.2 m³/s), by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 90 ft³/s (2.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 15	0730	102	2.89	6.02	1.835
Feb. 22	1730	*205	5.81	6.67	2.033

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.28	.95	11	4.3	.87	.08			
2			0	.28	1.0	6.5	3.3	.84	.05			
3			0	.28	.89	4.9	2.7	.76	.03			
4			0	.28	.79	3.9	2.4	.71	.02			
5			0	.28	.73	3.0	2.2	.71	.02			
6			0	.28	.70	2.6	2.0	.71	0			
7			0	.35	.64	2.2	1.9	.84	0			
8			0	.87	.64	2.0	1.7	1.0	.01			
9			0	2.4	.69	1.8	1.6	.90	.01			
10			.01	1.1	.68	1.7	1.5	.77	0			
11			.01	3.9	.64	1.5	1.4	.69	0			
12			.01	9.9	.61	1.4	1.3	.61	0			
13			.02	2.9	.68	1.4	1.2	.55	0			
14			.02	2.8	7.9	1.4	1.1	.46	0			
15			.03	54	6.6	1.3	1.1	.22	0			
16			.04	20	7.9	2.0	1.1	.28	0			
17			.04	6.7	7.7	2.7	1.1	.33	0			
18			.05	6.4	4.7	1.9	1.3	.32	0			
19			.05	3.8	5.7	2.7	1.2	.28	0			
20			.05	2.5	19	2.5	1.0	.27	0			
21			.08	1.9	97	2.0	.94	.23	0			
22			.23	1.5	84	1.8	.87	.23	0			
23			.28	1.2	68	2.2	1.1	.22	0			
24			.28	1.1	27	1.8	2.2	.19	0			
25			.28	.95	13	1.5	1.4	.19	0			
26			.28	.83	8.8	1.5	1.3	.19	0			
27			.28	.71	5.7	9.1	1.3	.16	0			
28			.28	.62	4.2	20	1.3	.16	0			
29			.28	.59	---	15	1.1	.15	0			
30			.28	.60	---	9.1	.92	.13	0			
31		---	.28	.82	---	5.9	---	.11	---			---
TOTAL	0	0	3.16	130.12	376.84	128.3	47.83	14.08	.22	0	0	0
MEAN	0	0	.10	4.20	13.5	4.14	1.59	.45	.007	0	0	0
MAX	0	0	.28	54	97	20	4.3	1.0	.08	0	0	0
MIN	0	0	0	.28	.61	1.3	.87	.11	0	0	0	0
AC-FT	0	0	6.3	258	747	254	95	28	.4	0	0	0
CAL YR 1978	TOTAL	3514.29	MEAN	9.63	MAX	634	MIN	0	AC-FT	6970		
WTR YR 1979	TOTAL	700.55	MEAN	1.92	MAX	97	MIN	0	AC-FT	1390		

ALAMEDA CREEK BASIN

11176000 ARROYO MOCHO NEAR LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January to September 1979.

INSTRUMENTATION--Water-quality monitor since January 1979.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,290 micromhos Jan. 5; minimum recorded, 314 micromhos Feb. 20.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), PERIOD JANUARY TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1										---	---	---
2										---	---	---
3										---	---	---
4										---	---	---
5										1290	1280	1290
6										1280	1260	1270
7										1260	1160	1210
8										1180	876	1060
9										1010	945	979
10										1050	1010	1030
11										1050	848	957
12										829	760	791
13										909	829	873
14										909	782	874
15										724	366	474
16										558	434	493
17										631	563	604
18										656	615	631
19										709	656	686
20										748	709	731
21										774	748	763
22										796	774	785
23										810	796	803
24										829	810	820
25										834	824	830
26										848	834	840
27										859	848	853
28										865	859	862
29										870	859	865
30										870	859	865
31										859	843	847
MONTH										1290	366	855
	FEBRUARY			MARCH			APRIL			MAY		
1	843	834	839	---	---	---	583	563	575	848	848	848
2	834	834	834	---	---	---	606	583	597	865	843	854
3	848	834	841	---	---	---	624	601	616	865	854	861
4	854	848	851	---	---	---	643	624	633	881	859	870
5	865	854	859	---	---	---	649	640	645	876	870	872
6	870	865	866	---	---	---	---	---	---	881	865	873
7	870	865	869	---	---	---	---	---	---	876	848	864
8	876	870	871	676	669	672	---	---	---	859	843	850
9	921	876	896	686	676	681	---	---	---	876	859	867
10	921	909	915	701	686	693	---	---	---	892	870	882
11	921	909	919	709	701	706	756	740	745	903	887	895
12	927	921	922	724	709	717	769	748	757	915	898	906
13	927	887	908	736	724	730	778	760	768	927	903	915
14	881	663	776	740	732	737	791	778	784	934	915	923
15	701	659	676	740	740	740	800	787	793	945	933	939
16	705	603	672	740	683	719	800	791	796	944	932	938
17	640	598	612	716	701	706	796	774	778	950	931	940
18	656	621	648	732	720	724	778	769	772	956	937	948
19	666	640	650	724	709	715	800	778	789	962	948	956
20	666	314	592	728	709	718	819	800	809	968	954	962
21	---	---	---	748	728	739	829	819	823	973	967	970
22	---	---	---	752	744	749	834	829	831	979	973	976
23	---	---	---	740	732	735	834	805	828	985	978	982
24	---	---	---	760	740	749	796	782	791	991	984	988
25	---	---	---	774	760	766	819	796	809	1000	990	995
26	---	---	---	774	752	769	819	800	811	1010	996	1000
27	---	---	---	752	509	685	819	810	814	1010	1000	1010
28	---	---	---	505	498	502	824	805	815	1020	1010	1010
29	---	---	---	505	494	497	838	824	830	1020	1020	1020
30	---	---	---	536	505	521	848	838	843	1030	1020	1030
31	---	---	---	563	536	551	---	---	---	1040	1030	1040
MONTH	927	314	801	774	494	688	848	563	762	1040	843	935

11176140 ALTAMONT CREEK NEAR LIVERMORE, CA

LOCATION.--Lat 37°43'23", long 121°43'41" in NW¼NW¼ sec.35, T.2 S., R.2 E., Alameda County, Hydrologic Unit 18050004, on right bank 1,000 ft (305 m) downstream from small right bank tributary and 3.6 mi (5.8 km) northeast of Livermore.

DRAINAGE AREA.--13.4 mi² (34.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1979.

GAGE.--Water-stage recorder. Altitude of gage is 515 ft (157 m), from topographic map.

REMARKS.--Records fair. Some releases from South Bay Aqueduct into stream.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s (1.4 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 15	0430	63	1.78	2.05	0.625
Feb. 21	0900	*65	1.84	2.07	.631

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	0	.01	.02	.45	3.5	.04	.74	.73	.40	1.4	.15
2	1.5	0	.01	.02	.45	.83	.03	.72	.11	2.0	.10	.17
3	.20	1.2	.01	.01	.41	.55	.04	.69	.01	.35	.42	2.0
4	1.5	.15	.01	.01	.37	.49	.03	.81	1.1	1.9	.01	.20
5	.20	.01	.01	.02	.41	.24	.04	.99	.32	.30	0	1.6
6	1.5	0	.01	.03	.38	.18	.05	1.0	1.3	1.8	1.9	.01
7	.30	0	.01	.03	.38	.14	.04	1.7	.38	.30	.16	1.3
8	.20	0	.02	1.0	.56	.12	.05	.99	1.2	.20	2.2	.01
9	1.5	0	.03	.30	.69	.11	.05	.86	.21	1.6	.13	0
10	.20	.99	.03	.07	.40	.09	.06	.83	.18	.10	2.3	1.3
11	1.5	.03	.03	6.3	.34	.08	.07	.78	1.0	1.3	.13	.01
12	.02	0	.02	.51	.32	.07	.07	.78	.24	.02	.13	1.5
13	.87	0	.02	.12	1.2	.07	.07	.78	1.3	1.3	2.0	.01
14	.42	.01	.02	3.3	1.1	.08	.07	.77	.36	.01	.22	1.5
15	.43	.01	.02	22	.66	.09	.07	.79	1.5	.01	2.0	.01
16	2.7	0	.02	2.0	.58	.21	1.8	.80	.44	1.5	.02	0
17	.32	0	.02	1.3	.20	1.4	.18	.76	.26	.10	1.9	1.5
18	1.9	0	.03	1.6	.30	.36	1.7	.66	1.4	2.1	.08	.01
19	.10	0	.03	.76	1.3	.39	.07	.58	.36	.06	.31	1.5
20	.02	.04	.03	.65	18	.17	.05	.59	1.6	1.5	2.7	.01
21	.01	.25	.03	.55	39	.06	.03	.55	.44	.20	.30	1.2
22	.01	.30	.03	.47	22	.02	.02	.53	2.5	.15	2.9	.01
23	1.4	.03	.02	.45	14	.02	.02	2.3	.43	1.7	.26	0
24	.14	.01	.02	.45	4.6	0	.04	.84	.19	.30	2.5	1.1
25	.01	.01	.02	.48	1.9	0	.08	2.5	3.8	1.4	.13	.01
26	0	.01	.02	.38	1.6	0	.29	.67	.62	.20	.09	1.0
27	1.4	.01	.02	.35	.76	.15	.30	.49	2.0	1.5	1.8	.01
28	.05	.01	.02	.43	.65	1.1	.44	1.9	.40	.20	.15	1.1
29	0	.01	.02	.52	---	.61	.74	.32	3.8	.15	2.1	.01
30	0	.01	.02	.54	---	.15	.74	.89	.50	1.5	.20	0
31	0	---	.02	.51	---	.06	---	.06	---	.20	2.0	---
TOTAL	18.60	3.09	.63	45.18	113.01	11.34	7.28	27.67	28.68	24.35	30.54	17.23
MEAN	.60	.10	.020	1.46	4.04	.37	.24	.89	.96	.79	.99	.57
MAX	2.7	1.2	.03	22	39	3.5	1.8	2.5	3.8	2.1	2.9	2.0
MIN	0	0	.01	.01	.20	0	.02	.06	.01	.01	0	0
AC-FT	37	6.1	1.2	90	224	22	14	55	57	48	61	34

WTR YR 1979 TOTAL 327.60 MEAN .90 MAX 39 MIN 0 AC-FT 650

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 (122 m) downstream from El Charro Road bridge, and 2.8 mi (4.5 km) northeast of Pleasanton.

DRAINAGE AREA.--75.0 mi² (194.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1977 to current year. 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 (107 m), from topographic map.

REMARKS.--Records fair. Flow partly regulated by wastewater from Livermore sewage treatment plant 2.3 mi (3.7 km) upstream.

COOPERATION.--Gage-height record and 23 discharge measurements were furnished by Alameda County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 860 ft³/s (24.4 m³/s) Jan. 17, 1978, gage height unknown; no flow Aug. 2, 1978, July 20, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 11	1345	468	13.3	4.96	1.512
Jan. 15	0300	*510	14.4	5.09	1.551

Minimum daily discharge, no flow July 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	5.5	6.6	6.0	6.7	33	6.3	7.4	3.0	4.1	3.5	4.5
2	3.0	5.3	6.2	7.1	6.8	9.6	6.4	6.5	2.7	3.8	2.4	5.1
3	3.4	5.9	5.4	6.9	6.7	1.8	7.1	5.9	3.1	4.5	.33	2.1
4	3.7	3.6	5.7	7.1	7.1	2.0	6.5	4.0	3.1	4.9	.19	1.9
5	3.5	6.1	5.3	7.6	6.3	3.8	4.7	5.0	4.5	3.0	.06	3.3
6	5.0	5.8	5.2	7.2	6.6	3.8	6.4	5.5	3.8	4.1	.03	4.8
7	5.3	5.7	7.1	8.3	7.3	4.5	7.4	11	4.8	3.0	.03	4.4
8	4.6	5.4	2.6	42	6.6	.81	7.2	8.3	5.0	3.7	.03	4.3
9	5.9	5.3	6.6	17	5.9	2.6	6.4	7.9	6.5	7.6	.03	4.2
10	6.4	4.0	7.9	4.9	6.3	3.8	4.9	5.8	5.6	6.2	.06	3.4
11	5.4	6.2	7.1	162	5.9	3.8	4.0	5.0	2.3	4.0	.04	4.2
12	5.6	6.6	4.4	33	6.3	3.4	6.1	5.8	2.3	3.3	.05	3.5
13	.83	7.0	5.8	9.2	12	3.1	6.1	6.4	2.7	2.7	1.1	3.0
14	1.4	3.5	6.7	37	15	3.1	6.9	5.0	6.4	4.9	3.0	3.3
15	4.8	4.2	4.5	225	8.5	4.1	5.0	5.1	6.1	3.8	3.2	4.3
16	4.8	5.9	5.7	27	12	6.6	5.5	6.1	6.8	3.8	5.2	3.8
17	5.8	6.8	8.1	13	8.0	12	6.3	4.7	5.8	5.5	4.2	4.0
18	4.2	6.7	8.5	14	11	6.6	5.7	4.6	5.2	3.1	3.4	4.6
19	5.4	5.7	8.4	7.8	11	7.1	4.7	5.7	5.8	1.2	3.2	4.8
20	5.5	10	3.3	7.8	57	6.2	4.0	4.3	3.8	0	3.4	1.6
21	5.7	42	4.7	6.9	224	5.7	5.8	5.0	4.3	2.4	5.0	4.0
22	5.8	18	7.8	6.9	145	5.3	6.3	5.7	3.2	5.2	3.6	3.7
23	3.1	9.1	8.4	6.6	91	8.0	6.9	3.0	4.7	5.5	4.8	4.4
24	4.3	6.8	8.3	7.1	21	5.7	5.5	4.9	2.8	5.0	4.9	5.5
25	5.4	7.0	7.1	1.4	11	4.5	4.5	4.6	3.1	4.4	5.1	5.2
26	3.2	6.2	5.2	6.1	9.6	6.2	11	3.9	4.1	4.7	4.4	4.8
27	3.8	7.1	6.9	6.7	8.0	12	8.8	3.1	2.8	4.8	4.8	5.7
28	6.6	7.1	6.1	7.6	11	17	7.1	2.5	3.5	5.8	3.7	3.7
29	6.2	5.6	5.7	6.9	---	12	5.9	3.5	3.4	3.9	4.2	5.0
30	5.6	5.0	5.8	7.1	---	6.6	5.0	4.2	3.4	2.2	3.2	4.1
31	5.1	---	5.9	6.8	---	6.2	---	2.6	---	2.6	3.8	---
TOTAL	142.53	229.1	193.0	720.0	733.6	210.91	184.4	163.0	124.6	123.7	80.95	121.2
MEAN	4.60	7.64	6.23	23.2	26.2	6.80	6.15	5.26	4.15	3.99	2.61	4.04
MAX	6.6	42	8.5	225	224	33	11	11	6.8	7.6	5.2	5.7
MIN	.83	3.5	2.6	1.4	5.9	.81	4.0	2.5	2.3	0	.03	1.6
AC-FT	283	454	383	1430	1460	418	366	323	247	245	161	240
CAL YR 1978	TOTAL	4597.07	MEAN	12.6	MAX	350	MIN	0	AC-FT	9120		
WTR YR 1979	TOTAL	3026.99	MEAN	8.29	MAX	225	MIN	0	AC-FT	6000		

ALAMEDA CREEK BASIN

11176180 ARROYO LAS POSITAS AT EL CHARRO ROAD, NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1978 to September 1979.

INSTRUMENTATION.--Water-quality monitor since December 1978.

REMARKS.--Difference between recorder values before adjustment and field measurement values exceeded ± 10 percent micromhos for specific conductance at times during the year.

COOPERATION.--Specific conductance data furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

EXTREMES: December 1978 to September 1979.

SPECIFIC CONDUCTANCE: Maximum recorded, 1,530 micromhos Aug. 16; minimum recorded, 312 micromhos Feb. 22.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), PERIOD DECEMBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	1130	1080	1110
2							954	892	924	1110	1080	1090
3							952	872	914	1110	932	1040
4							904	854	884	1190	1090	1150
5							870	822	846	1210	828	1100
6							910	828	848	1250	928	1140
7							1040	934	1010	1290	954	1200
8							1080	1050	1060	918	390	603
9							1070	996	1030	984	542	625
10							1070	984	1030	1190	1000	1100
11							1070	988	1030	1170	358	595
12							1050	1010	1030	1060	482	748
13							1120	1020	1070	1220	1090	1160
14							1150	998	1060	1230	386	783
15							1040	948	987	---	---	---
16							978	884	942	---	---	---
17							1010	928	961	---	---	---
18							992	896	964	---	---	---
19							1020	708	938	---	---	---
20							1040	878	964	---	---	---
21							956	834	910	---	---	---
22							991	899	952	---	---	---
23							1040	957	993	---	---	---
24							1070	999	1030	---	---	---
25							1070	1020	1050	---	---	---
26							1090	1060	1070	---	---	---
27							1120	1020	1090	---	---	---
28							1110	1030	1070	---	---	---
29							1120	1080	1100	---	---	---
30							1130	1090	1110	---	---	---
31							1130	1100	1120	---	---	---
MONTH							1150	708	1000	1290	358	960

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 (0.5 km) upstream from Santa Rita Road, 0.8 mi (1.3 km) downstream from Arroyo Las Positas, and 2 mi (3 km) north of Pleasanton.

DRAINAGE AREA.--142 mi² (368 km²), revised.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 319.51 ft (97.387 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 30, 1967, at site 0.4 mi (0.6 km) downstream at different datum. Dec. 8, 1967, to July 7, 1968, nonrecording gage at bridge 0.3 mi (0.5 km) downstream at different datum.

REMARKS.--Records good. No regulation. Waste water from Livermore sewage disposal plant and gravel operations enters stream about 4 mi (6 km) upstream from gage.

AVERAGE DISCHARGE.--17 years, 13.7 ft³/s (0.388 m³/s), 9,930 acre-ft/yr (12.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,760 ft³/s (49.8 m³/s) Feb. 1, 1963, gage height, 8.60 ft (2.621 m) site and datum then in use, from rating curve extended above 58 ft³/s (1.64 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s (7.1 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 11	1400	347	9.83	9.65	2.941	Feb. 21	0645	390	11.0	9.76	2.975
Jan. 15	0315	*434	12.3	9.87	3.008						

Minimum daily discharge, 0.96 ft³/s (0.027 m³/s) Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	4.7	7.8	9.4	8.9	43	8.5	9.6	5.9	8.4	5.7	5.9
2	3.6	5.1	7.4	8.6	9.6	21	9.6	8.5	5.7	6.9	8.8	6.4
3	3.8	5.3	6.2	8.8	9.2	12	10	9.2	7.3	7.7	6.4	6.4
4	3.8	3.7	6.6	7.6	9.6	13	9.4	9.0	6.7	5.0	3.3	7.3
5	3.7	5.3	5.9	9.1	8.6	12	6.8	7.0	7.6	3.7	2.1	5.8
6	4.5	5.1	5.6	8.9	8.8	9.9	9.6	10	8.1	4.4	5.5	6.5
7	4.9	5.2	7.2	11	9.3	13	14	19	8.4	3.5	4.3	6.6
8	4.5	4.8	4.1	67	9.0	7.6	13	8.6	8.3	2.9	4.9	9.1
9	5.1	4.8	6.6	23	8.3	9.5	12	9.2	8.3	6.3	4.7	8.4
10	5.8	3.2	7.3	7.5	8.5	11	11	7.9	6.1	5.9	5.1	7.6
11	4.9	5.2	8.6	162	8.2	12	8.6	5.8	5.8	4.4	5.8	8.0
12	5.3	5.9	6.2	40	8.5	11	8.8	5.5	4.6	3.4	2.2	5.3
13	1.8	8.8	7.8	19	18	11	8.8	7.5	4.4	2.6	6.7	3.6
14	.96	3.8	8.9	68	17	10	9.4	6.6	8.5	3.7	7.7	5.2
15	4.4	4.7	8.2	246	17	12	8.2	8.0	9.4	3.5	7.8	3.8
16	4.6	5.4	7.2	49	23	17	10	8.7	10	2.9	9.5	4.2
17	5.4	6.6	14	20	17	19	10	5.2	10	4.5	8.3	4.5
18	4.4	6.3	12	20	20	11	8.7	7.9	8.5	4.4	8.1	4.3
19	4.8	6.2	9.8	13	17	13	8.1	8.2	9.1	5.6	9.0	6.9
20	5.0	19	5.5	15	74	11	7.6	8.4	7.0	5.6	9.6	6.1
21	5.3	57	7.0	14	306	9.8	8.9	8.3	9.4	5.5	10	7.9
22	5.3	25	8.4	12	228	9.9	8.7	10	8.5	5.0	7.9	5.2
23	3.8	14	9.9	8.9	193	12	10	7.3	7.9	6.6	9.5	5.0
24	3.7	9.5	13	10	53	9.2	8.8	8.3	6.9	9.0	11	11
25	4.9	7.2	11	6.1	29	7.8	7.9	8.8	7.4	9.1	10	9.6
26	3.6	9.3	7.7	8.9	18	10	18	7.8	8.1	9.1	9.2	7.1
27	3.7	7.8	8.1	13	13	24	11	6.5	7.2	9.7	7.5	5.4
28	5.8	7.7	7.8	15	21	36	9.6	6.9	7.4	9.9	6.1	4.1
29	5.8	7.6	7.8	12	---	21	9.6	7.0	7.1	7.0	8.2	6.8
30	5.2	5.4	9.4	9.9	---	11	8.4	7.5	5.1	7.5	5.7	4.8
31	5.2	---	10	9.7	---	7.5	---	6.0	---	5.2	6.4	---
TOTAL	137.46	269.6	253.0	932.4	1170.5	437.2	293.0	254.2	224.7	178.9	217.0	188.8
MEAN	4.43	8.99	8.16	30.1	41.8	14.1	9.77	8.20	7.49	5.77	7.00	6.29
MAX	5.8	57	14	246	306	43	18	19	10	9.9	11	11
MIN	.96	3.2	4.1	6.1	8.2	7.5	6.8	5.2	4.4	2.6	2.1	3.6
AC-FT	273	535	502	1850	2320	867	581	504	446	355	430	374
CAL YR 1978	TOTAL	6803.69	MEAN	18.6	MAX	497	MIN	.49	AC-FT	13500		
WTR YR 1979	TOTAL	4556.76	MEAN	12.5	MAX	306	MIN	.96	AC-FT	9040		

ALAMEDA CREEK BASIN

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11176300 TASSAJARA CREEK NEAR PLEASANTON, CA
(Formerly published as Tassajero Creek near Pleasanton)

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 (244 m) downstream from bridge on Interstate Highway 580 and 2.6 miles (4.2 km) north of Pleasanton, CA.

DRAINAGE AREA.--26.8 mi² (69.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to May 1919 and October 1921 to September 1930, published as Tassajero Creek near Pleasanton. October 1978 to September 1979. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 345 ft (105 m), from topographic map.

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

AVERAGE DISCHARGE.--13 years (water years 1915-18, 1922-30), 2.24 ft³/s (0.063 m³/s), 1,620 acre-ft/yr (2.00 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 372 ft³/s (10.5 m³/s) Jan. 14, 1916; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 75 ft³/s (2.1 m³/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 11	1400	89	2.52	2.46	0.750	Feb. 22	2010	*296	8.38	4.55	1.387
Jan. 15	0400	144	4.08	3.02	.920	Mar. 1	0130	97	2.75	2.54	.774

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.16	24	1.9	.51				
2				0	.06	5.3	1.7	.52				
3				0	0	4.9	1.6	.44				
4				0	0	4.5	1.4	.40				
5				0	0	4.1	1.3	.44				
6				0	0	3.7	1.5	.74				
7				0	0	3.4	1.3	.77				
8				0	0	3.2	1.1	.69				
9				0	0	3.0	.98	.43				
10				0	0	2.7	.83	.33				
11				21	0	2.6	.80	.20				
12				2.4	0	2.6	.77	0				
13				.73	0	2.5	.74	0				
14				19	.96	2.5	.73	0				
15				59	1.1	2.5	.70	0				
16				5.7	.78	3.1	.67	0				
17				2.8	1.6	4.5	.82	0				
18				3.0	.50	3.0	.71	0				
19				1.2	4.3	3.0	.65	0				
20				.70	3.4	2.5	.63	0				
21				.59	136	2.2	.62	0				
22				.49	96	2.0	.64	0				
23				.41	69	1.8	1.0	0				
24				.36	13	1.8	.73	0				
25				.32	8.0	1.6	.55	0				
26				.23	6.8	1.9	.70	0				
27				.13	5.4	4.8	1.6	0				
28				.03	6.0	6.5	.60	0				
29				.07	---	4.0	.50	0				
30				.06	---	2.6	.50	0				
31				.16	---	2.1	---	0				
TOTAL	0	0	0	118.38	353.06	118.9	28.27	5.47	0	0	0	0
MEAN	0	0	0	3.82	12.6	3.84	.94	.18	0	0	0	0
MAX	0	0	0	59	136	24	1.9	.77	0	0	0	0
MIN	0	0	0	0	0	1.6	.50	0	0	0	0	0
AC-FT	0	0	0	235	700	236	56	11	0	0	0	0
WTR YR 1979	TOTAL	624.08	MEAN	1.71	MAX	136	MIN	0	AC-FT	1240		

ALAMEDA CREEK BASIN

11176300 TASSAJARA CREEK NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD--

SPECIFIC CONDUCTANCE: March to September 1979.

INSTRUMENTATION--Water-quality monitor since March 1979.

REMARKS.--Specific conductance table omitted for period of no flow June through September.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,120 micromhos May 6; minimum recorded, 672 micromhos Mar. 28.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), PERIOD MARCH TO SEPTEMBER 1979

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	---	---	---	1090	1050	1070
2				---	---	---	---	---	---	1100	1070	1080
3				---	---	---	---	---	---	1090	1080	1080
4				---	---	---	---	---	---	1090	1060	1080
5				---	---	---	---	---	---	1100	1030	1070
6				887	865	880	---	---	---	1120	1050	1080
7				903	887	897	---	---	---	1090	1020	1070
8				915	881	903	---	---	---	1090	1050	1070
9				921	887	906	---	---	---	1100	1070	1090
10				921	892	908	---	---	---	1090	1050	1070
11				921	892	913	---	---	---	1100	1040	1070
12				939	903	926	---	---	---	---	---	---
13				951	921	940	---	---	---	---	---	---
14				963	933	946	---	---	---	---	---	---
15				963	951	957	---	---	---	---	---	---
16				983	957	968	---	---	---	---	---	---
17				1000	881	944	---	---	---	---	---	---
18				915	870	886	---	---	---	---	---	---
19				963	921	950	---	---	---	---	---	---
20				970	957	960	---	---	---	---	---	---
21				983	963	968	---	---	---	---	---	---
22				983	970	976	---	---	---	---	---	---
23				1000	976	990	---	---	---	---	---	---
24				1010	990	999	---	---	---	---	---	---
25				1020	997	1010	1070	1040	1050	---	---	---
26				1020	970	1000	1040	970	1020	---	---	---
27				1060	870	981	1100	1020	1070	---	---	---
28				912	672	775	1100	1030	1070	---	---	---
29				835	727	797	1030	1000	1020	---	---	---
30				---	---	---	1050	1020	1040	---	---	---
31				---	---	---	---	---	---	---	---	---
MONTH				1060	672	933	1100	970	1050	1120	1020	1080

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CA

LOCATION.--Lat 37°39'46", long 121°54'19", in Santa Rita Grant, Alameda County, Hydrologic Unit 18050004, on right bank 250 ft (76 m) upstream from Arroyo Valle, 1.0 mi (1.6 km) downstream from Arroyo Mocho, and 1.8 mi (2.9 km) west of Pleasanton.

DRAINAGE AREA.--224 mi² (580 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to July 1979 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 300 ft (91 m), from topographic map.

REMARKS.--Records fair except those for period of backwater condition, May 30 to July 31, which are poor. Flow partly regulated by South Bay Aqueduct and by waste water from Valley Community Services District (VCSD) sewage disposal plant which enters stream 1.7 mi (2.7 km) upstream from station. Records published for flows of 50 ft³/s (1.42 m³/s) or less for water-quality monitoring purposes.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; minimum daily, 2.8 ft³/s (0.079 m³/s) Apr. 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; minimum daily, 7.3 ft³/s (0.21 m³/s) Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	10	17	16	16	---	24	19	15	14		
2	9.2	12	14	15	16	---	25	17	13	13		
3	9.5	10	14	17	15	40	25	19	15	16		
4	10	11	14	14	17	36	23	16	15	12		
5	9.4	11	13	17	15	31	21	21	15	11		
6	9.5	12	13	18	15	27	24	23	15	12		
7	10	11	13	28	15	26	27	50	15	12		
8	10	11	12	---	15	21	26	21	15	13		
9	11	11	13	---	14	23	26	24	13	14		
10	11	9.4	15	25	14	21	24	21	13	18		
11	11	12	17	---	14	24	20	20	13	15		
12	11	19	14	---	14	21	20	19	10	15		
13	9.0	25	14	44	---	22	21	21	9.0	12		
14	7.3	9.3	15	---	---	20	23	21	13	14		
15	9.7	11	17	---	24	21	20	22	15	13		
16	11	10	13	---	---	38	24	23	15	11		
17	11	11	33	---	27	38	29	21	17	15		
18	11	11	26	---	---	24	21	23	14	14		
19	10	12	20	30	---	23	20	21	13	17		
20	11	---	13	28	---	20	22	22	15	16		
21	10	---	14	26	---	19	23	20	13	20		
22	11	---	15	23	---	18	24	24	14	19		
23	11	25	16	20	---	20	38	20	11	18		
24	8.7	19	20	20	---	17	42	19	13	23		
25	11	14	19	17	---	16	34	21	11	24		
26	9.8	17	15	17	---	27	39	18	13	22		
27	10	14	15	20	43	---	28	16	12	21		
28	11	15	15	22	---	---	20	16	12	20		
29	12	14	14	19	---	---	18	16	15	20		
30	12	13	15	18	---	34	19	15	11	19		
31	11	---	17	18	---	24	---	14	---	13		
TOTAL	318.8	---	495	---	---	---	750	643	403.0	496		
MEAN	10.3	---	16.0	---	---	---	25.0	20.7	13.4	16.0		
MAX	12	---	33	---	---	---	42	50	17	24		
MIN	7.3	---	12	---	---	---	18	14	9.0	11		
AC-FT	632	---	982	---	---	---	1490	1280	799	984		

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-79 (discontinued).
 CHEMICAL ANALYSES: Water years 1975-79 (discontinued).
 SPECIFIC CONDUCTANCE: Water years 1975-79 (discontinued).
 WATER TEMPERATURES: Water years 1975-78.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1974 to July 1979.
 WATER TEMPERATURES: December 1974 to September 1978.

INSTRUMENTATION.--Water-quality monitor since December 1974.

REMARKS.--Difference between recorder values before adjustment and field measurement values exceeded ± 10 percent micromhos for specific conductance at times during the year.

COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,830 micromhos Feb. 23, 1977; minimum recorded, 206 micromhos Feb. 22, 1979.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,370 micromhos Mar. 9, Apr. 13-14; minimum recorded, 206 micromhos Feb. 22.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	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)
DEC 06...	1020	12	1030	7.0	8.5	41	240	--	47	29
MAR 07...	1120	31	1150	8.0	18.0	25	320	320	62	39
MAY 30...	1145	21	900	7.4	23.0	12	190	--	49	17

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
DEC 06...	140	677	.92	21.9	19	.05	19	.10	.40
MAR 07...	150	770	1.05	64.4	6.0	.04	6.0	.01	.30
MAY 30...	110	591	.80	33.5	5.9	.06	6.0	.01	.30

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1280	1230	1250	1220	1180	1200	1240	1080	1160	1100	1080	1090
2	1290	1230	1260	1220	1110	1160	1190	1100	1140	1110	1090	1100
3	1290	1240	1270	1190	1150	1170	1190	1130	1150	1110	1100	1110
4	1300	1240	1270	1190	1140	1160	1190	1100	1140	1120	1100	1110
5	1290	1210	1250	1220	1140	1180	1170	1120	1140	1190	894	1100
6	1260	1210	1230	1220	1130	1170	1190	1130	1160	1110	928	1020
7	1250	1200	1230	1220	1140	1180	1180	1100	1150	1130	600	945
8	1260	1180	1220	1200	1140	1170	1210	1110	1140	758	254	507
9	1210	1170	1190	1210	1150	1180	1220	1100	1160	662	398	538
10	1230	1190	1210	1220	1160	1190	1170	1120	1150	850	668	758
11	1240	1180	1210	1200	1140	1170	1160	1110	1130	848	722	791
12	1240	1190	1210	1210	722	1160	1180	1110	1140	920	852	894
13	1230	1180	1210	1030	740	890	1190	1090	1130	988	922	953
14	1210	1170	1190	1170	1050	1110	1190	1100	1120	994	928	958
15	1240	1190	1210	1170	1120	1150	1130	1030	1080	994	950	969
16	1250	1200	1220	1230	1180	1200	1190	1060	1110	1010	652	961
17	1240	1190	1230	1230	1140	1180	1160	623	972	---	---	---
18	1230	1160	1200	1210	1150	1170	1010	835	927	---	---	---
19	1310	1220	1250	1190	1010	1100	1080	975	1020	---	---	---
20	1310	1230	1270	1140	290	701	1150	1070	1120	---	---	---
21	1280	1220	1260	898	336	631	1170	1130	1140	---	---	---
22	1270	1190	1230	840	590	699	1150	1120	1140	---	---	---
23	1260	1170	1220	1000	780	891	1140	1120	1130	---	---	---
24	1260	1150	1220	1120	1010	1070	1130	1080	1100	---	---	---
25	1290	1180	1240	1250	1120	1180	1090	1080	1080	---	---	---
26	1290	1170	1230	1230	1050	1110	1100	1080	1090	---	---	---
27	1300	1220	1260	1210	1130	1170	1120	1100	1110	---	---	---
28	1270	1220	1240	1220	1130	1160	1140	1120	1130	---	---	---
29	1260	1200	1230	1210	1130	1160	1150	1130	1140	---	---	---
30	1260	1180	1190	1270	1150	1190	1150	1100	1130	---	---	---
31	1260	1210	1230	---	---	---	1140	1090	1110	---	---	---
MONTH	1310	1150	1230	1270	290	1100	1240	623	1110	1190	254	925
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	1100	1020	1050	1210	1140	1180
2	---	---	---	---	---	---	1150	1100	1120	1200	1150	1180
3	---	---	---	---	---	---	1190	1150	1160	1190	1140	1160
4	---	---	---	---	---	---	1230	1190	1200	1170	1130	1150
5	---	---	---	---	---	---	1260	1230	1240	1170	1010	1120
6	---	---	---	---	---	---	1270	1240	1260	1070	998	1030
7	1180	1140	1160	1210	1170	1180	1290	1250	1280	1030	914	949
8	1170	1150	1160	1240	1170	1200	1270	1220	1230	1130	936	1030
9	1180	1160	1170	1370	1180	1290	1270	1240	1250	1170	1110	1130
10	1180	1160	1170	1330	1190	1270	1300	1250	1270	1230	1170	1190
11	1180	1170	1180	1290	1180	1230	1320	1290	1310	1240	1200	1220
12	1270	1180	1210	1290	1220	1260	1340	1310	1320	1250	1210	1230
13	1230	530	950	1310	1160	1240	1370	1280	1320	1270	1200	1230
14	1020	320	732	1300	1200	1250	1370	1260	1320	1230	1180	1200
15	---	---	---	1280	1150	1250	1320	1220	1280	1260	1140	1190
16	1060	692	798	---	---	---	1320	1140	1210	1310	1150	1200
17	---	---	---	---	---	---	1320	1010	1140	1310	1170	1230
18	1070	740	884	---	---	---	1350	1200	1270	1300	1120	1180
19	912	830	881	---	---	---	1350	1230	1270	1240	1120	1160
20	942	512	785	---	---	---	1310	1210	1270	1250	1120	1170
21	532	332	445	---	---	---	1270	1180	1220	1240	1010	1140
22	630	206	357	---	---	---	1250	1190	1220	1220	1120	1160
23	---	---	---	---	---	---	1210	1030	1110	1240	1120	1170
24	---	---	---	---	---	---	1230	1120	1160	1300	1150	1190
25	---	---	---	---	---	---	1240	1180	1210	1300	1150	1200
26	---	---	---	---	---	---	1240	884	1080	1260	1100	1170
27	---	---	---	---	---	---	1120	913	991	1280	1140	1200
28	---	---	---	---	---	---	1230	1140	1190	1270	1130	1210
29	---	---	---	---	---	---	1230	1200	1210	1230	1140	1180
30	---	---	---	---	---	---	1200	1150	1170	1250	1180	1210
31	---	---	---	---	---	---	---	---	---	1250	1160	1200
MONTH	1270	206	920	1370	1150	1240	1370	884	1210	1310	914	1170

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA

LOCATION.--Lat 37°33'41", long 121°40'58", in NE¼NE¼ sec.30, T.4 S., R.3 E., Alameda County, Hydrologic Unit 18050004, on left bank 100 ft (30 m) upstream from small left-bank tributary, 1.2 mi (1.9 km) downstream from Lang Canyon, and 9.5 mi (15.3 km) southeast of Livermore.

DRAINAGE AREA.--130 mi² (337 km²).

WATER-DISCHARGE RECORDS

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 (229 m), from topographic map. Prior to June 19, 1975, at site 1.4 mi (2.3 km) upstream at different datum.

REMARKS.--Records good except those for flows below 5 ft³/s, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--16 years, 28.0 ft³/s (0.793 m³/s), 20,290 acre-ft/yr (25.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,340 ft³/s (151 m³/s) Jan. 25, 1969, gage height, 8.90 ft (2.713 m) site and datum then in use; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 989 ft³/s (28.0 m³/s) Feb. 22 (2315 hrs), gage height, 2.59 ft (0.789 m), no other peak above base of 500 ft³/s (14 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.93	7.7	88	33	6.6	.31			
2			0	.86	8.2	64	26	6.2	.26			
3			0	.90	7.5	50	21	6.2	.40			
4			0	.93	7.1	44	20	5.7	.48			
5			0	1.1	7.1	38	18	6.0	.42			
6			0	1.1	7.1	32	16	5.3	.34			
7			0	1.5	6.5	28	14	6.5	.23			
8			0	4.5	6.2	24	13	7.5	.12			
9			0	14	6.2	22	13	6.1	.08			
10			0	5.3	6.2	20	12	5.3	.03			
11			0	39	6.2	19	11	4.9	.02			
12			0	27	6.1	19	11	4.5	0			
13			0	7.1	6.8	17	9.7	4.5	0			
14			0	9.4	98	16	9.4	4.3	0			
15			0	119	91	15	8.6	4.0	0			
16			0	53	70	18	8.2	3.5	0			
17			.05	30	63	18	9.6	2.9	0			
18			.63	24	37	16	8.9	2.4	0			
19			.80	17	40	17	8.2	2.2	0			
20			1.6	12	89	15	6.6	1.7	0			
21			1.1	11	710	17	6.2	.54	0			
22			.93	9.3	556	15	6.2	.20	0			
23			.93	9.4	586	13	8.4	.13	0			
24			.93	8.2	218	12	8.5	.27	0			
25			.81	7.1	116	12	7.1	.35	0			
26			.68	7.1	83	12	7.5	.50	0			
27			.68	6.2	62	32	8.5	.23	0			
28			.86	5.3	49	117	7.6	.08	0			
29			.84	5.3	---	104	7.1	.09	0			
30			.93	6.7	---	67	7.1	.06	0			
31		---	.89	8.3	---	45	---	.29	---			---
TOTAL	0	0	12.66	452.52	2956.9	1026	351.4	99.04	2.69	0	0	0
MEAN	0	0	.41	14.6	106	33.1	11.7	3.19	.090	0	0	0
MAX	0	0	1.6	119	710	117	33	7.5	.48	0	0	0
MIN	0	0	0	.86	6.1	12	6.2	.06	0	0	0	0
AC-FT	0	0	25	898	5870	2040	697	196	5.3	0	0	0
CAL YR 1978	TOTAL	22047.44	MEAN 60.4	MAX 1910	MIN 0	AC-FT 43730						
WTR YR 1979	TOTAL	4901.21	MEAN 13.4	MAX 710	MIN 0	AC-FT 9720						

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.
 WATER TEMPERATURES: Water years 1974 to current year.
 SEDIMENT RECORDS: Water years 1974 to current year.

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: October 1973 to current year.
 SEDIMENT RECORDS: October 1973 to current year.

REMARKS.--Sediment table omitted for period of no flow July 1 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,670 mg/L Jan. 16, 1978; minimum daily mean, no flow for many days each year.

SEDIMENT DISCHARGE: Maximum daily, 17,500 tons (15,900 metric tons) Jan. 16, 1978; minimum daily, 0 ton (0 metric ton) many days each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 625 mg/L Feb. 21; minimum daily mean, no flow for many days.

SEDIMENT DISCHARGE: Maximum daily, 1,270 tons (1,150 metric tons) Feb. 21; minimum daily, 0 ton (0 metric ton) many days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				---	---	10.5	---	---				
2				---	---	---	---	---				
3				---	---	---	---	---				
4				7.5	---	---	19.0	22.0				
5				---	---	---	20.0	---				
6				---	---	---	---	---				
7				---	---	15.0	---	---				
8				---	8.0	---	---	---				
9				---	11.5	---	---	---				
10				---	---	---	---	---				
11				12.0	---	---	---	---				
12				---	---	---	16.0	---				
13				---	---	---	---	---				
14				---	10.0	---	---	26.5				
15				---	10.5	---	---	---				
16				11.0	---	---	---	---				
17				9.0	---	---	15.5	---				
18				8.0	9.0	---	---	---				
19				7.5	---	---	---	---				
20				9.5	---	---	---	---				
21				---	8.5	16.0	---	---				
22				---	---	---	---	---				
23				---	---	---	---	---				
24				---	---	---	14.5	---				
25				9.0	---	---	---	---				
26				8.5	---	---	15.5	---				
27				---	12.0	---	---	---				
28				---	---	---	---	---				
29				---	---	---	---	---				
30				5.0	---	---	---	---				
31				---	---	16.5	---	---				

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							0	0	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							.05	6	0
18							.63	12	.03
19							.80	11	.03
20							1.6	11	.05
21							1.1	4	.01
22							.93	3	.01
23							.93	3	.01
24							.93	3	.01
25							.81	3	.01
26							.68	3	.01
27							.68	3	.01
28							.86	3	.01
29							.84	3	.01
30							.93	3	.01
31							.89	3	.01
TOTAL	0	0	0	0	0	0	12.66	---	.22
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	.93	3	.01	7.7	4	.08	88	52	12
2	.86	3	.01	8.2	4	.09	64	6	1.0
3	.90	3	.01	7.5	4	.08	50	4	.54
4	.93	3	.01	7.1	3	.06	44	4	.48
5	1.1	3	.01	7.1	3	.06	38	3	.31
6	1.1	3	.01	7.1	3	.06	32	3	.26
7	1.5	4	.02	6.5	3	.05	28	2	.15
8	4.5	18	.34	6.2	3	.05	24	2	.13
9	14	34	1.3	6.2	3	.05	22	2	.12
10	5.3	8	.11	6.2	3	.05	20	2	.11
11	39	59	6.2	6.2	3	.05	19	2	.10
12	27	25	1.8	6.1	3	.05	19	2	.10
13	7.1	7	.13	6.8	4	.07	17	2	.09
14	9.4	19	.48	98	82	35	16	2	.09
15	119	101	32	91	38	10	15	2	.08
16	53	25	3.6	70	56	12	18	2	.10
17	30	13	1.1	63	32	6.0	18	2	.10
18	24	14	.91	37	15	1.5	16	2	.09
19	17	7	.32	40	28	3.1	17	2	.09
20	12	4	.13	89	93	52	15	2	.08
21	11	4	.12	710	625	1270	17	7	.34
22	9.3	5	.13	556	398	689	15	4	.16
23	9.4	5	.13	586	334	615	13	3	.11
24	8.2	6	.13	218	105	66	12	2	.06
25	7.1	6	.12	116	33	10	12	2	.06
26	7.1	6	.12	83	20	4.5	12	2	.06
27	6.2	5	.08	62	12	2.0	32	32	7.1
28	5.3	4	.06	49	17	2.4	117	88	29
29	5.3	3	.04	---	---	---	104	73	21
30	6.7	7	.13	---	---	---	67	19	3.4
31	8.3	7	.16	---	---	---	45	7	.85
TOTAL	452.52	---	49.72	2956.9	---	2779.30	1026	---	78.16

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	33	4	.36	6.6	4	.07	.31	4	0	
2	26	4	.28	6.2	3	.05	.26	3	0	
3	21	5	.28	6.2	3	.05	.40	3	0	
4	20	7	.38	5.7	3	.05	.48	3	0	
5	18	7	.34	6.0	3	.05	.42	3	0	
6	16	6	.26	5.3	3	.04	.34	3	0	
7	14	5	.19	6.5	8	.14	.23	2	0	
8	13	4	.14	7.5	4	.08	.12	2	0	
9	13	3	.11	6.1	4	.07	.08	2	0	
10	12	2	.06	5.3	5	.07	.03	2	0	
11	11	2	.06	4.9	5	.07	.02	2	0	
12	11	2	.06	4.5	5 00	.06	0 0	0 0	0 0	
13	9.7	2	.05	4.5	6	.07	0	0	0	
14	9.4	2	.05	4.3	6	.07	0	0	0	
15	8.6	2	.05	4.0	6	.06	0	0	0	
16	8.2	2	.04	3.5	6	.06	0	0	0	
17	9.6	2	.05	2.9	6	.05	0	0	0	
18	8.9	2	.05	2.4	6	.04	0	0	0	
19	8.2	2	.04	2.2	6	.04	0	0	0	
20	6.6	2	.04	1.7	6	.03	0	0	0	
21	6.2	2	.03	.54	6	.01	0	0	0	
22	6.2	2	.03	.20	5	0	0	0	0	
23	8.4	12	.30	.13	5	0	0	0	0	
24	8.5	14	.32	.27	5	0	0	0	0	
25	7.1	8	.15	.35	5	0	0	0	0	
26	7.5	5	.10	.50	5	.01	0	0	0	
27	8.5	7	.16	.23	5	0	0	0	0	
28	7.6	5	.10	.08	4	0	0	0	0	
29	7.1	4	.08	.09	4	0	0	0	0	
30	7.1	4	.08	.06	4	0	0	0	0	
31	---	---	---	.29	4	0	---	---	---	
TOTAL	351.4	---	4.24	99.04	---	1.24	2.69	---	0	
YEAR	4901.21		2912.88							

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEUS (CFS)	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 11...	1520	12.0	82	183	41	--	--	--	
FEB 14...	1500	10.0	207	211	118	--	--	--	
21...	1400	8.5	874	664	1570	--	42	54	
21...	1530	9.0	946	783	2000	33	43	55	
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 11...		--	--	95	97	99	100	--	--
FEB 14...		--	--	94	96	98	100	--	--
21...		66	79	86	90	92	95	99	100
21...		70	84	92	98	99	100	--	--

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 (274 m) downstream from highway bridge, 1.1 mi (1.8 km) upstream from Dry Creek, 1.3 mi (2.1 km) downstream from Del Valle Dam, 4.1 mi (6.6 km) south of Livermore, and 6.9 mi (11.1 km) southeast of Pleasanton.

DRAINAGE AREA.--147 mi² (381 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1912 to September 1930, October 1957 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as Arroyo del Valle near Livermore, 1912-29.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 510.44 ft (155.582 m) National Geodetic Vertical Datum of 1929. Prior to November 1914, at site 900 ft (274 m) upstream at different datum. Nov. 1, 1914, to Sept. 30, 1930, at site 300 ft (91 m) upstream at different datum.

REMARKS.--Records good. Flow regulated by Del Valle Reservoir 1.3 mi (2.1 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm³). Water from Sacramento-San Joaquin Delta imported through South Bay Aqueduct can be pumped into Del Valle Reservoir for storage and later released into the channel for downstream percolation or returned to the South Bay Aqueduct.

AVERAGE DISCHARGE.--29 years (1912-30, 1957-68), 29.6 ft³/s (0.838 m³/s), 21,450 acre-ft/yr (26.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s (346 m³/s) Apr. 2, 1958, gage height, 10.91 ft (3.325 m); no flow at times. Maximum discharge since construction of Del Valle Dam in 1968, 1,080 ft³/s (30.6 m³/s) Mar. 5, 1978, gage height, 5.58 ft (1.701 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a stage of 13.93 ft (4.246 m) from floodmarks, discharge, 18,200 ft³/s (515 m³/s), on basis of contracted-opening and slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49 ft³/s (1.39 m³/s) Aug. 28, gage height, 2.86 ft (0.872 m); minimum daily, 0.42 ft³/s (0.012 m³/s) Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.8	11	11	5.1	.97	12	6.7	26	27	31	14
2	11	8.7	11	11	7.7	.80	12	6.2	26	27	31	14
3	10	7.7	11	10	5.2	.80	12	12	26	27	31	14
4	9.9	7.7	11	9.3	7.1	.80	12	12	29	27	31	13
5	9.9	7.9	11	9.3	.48	.80	12	12	28	26	32	14
6	9.9	7.7	11	9.3	.42	6.8	12	12	28	27	32	14
7	9.9	7.7	11	9.5	5.0	9.3	12	12	28	27	32	14
8	9.7	7.6	11	9.9	5.9	6.1	12	12	28	26	32	13
9	8.9	7.3	11	9.3	.45	.75	12	12	28	28	32	13
10	9.1	7.3	11	9.3	5.5	5.3	12	12	28	31	31	13
11	9.1	7.5	11	11	5.0	6.3	12	12	28	31	31	13
12	5.2	7.8	11	9.9	.47	.68	12	12	28	31	31	13
13	5.2	5.6	11	9.9	1.8	6.0	12	12	28	31	31	13
14	7.0	5.7	11	10	5.9	9.9	13	12	28	31	31	12
15	3.9	12	11	11	6.8	5.7	12	12	28	31	31	11
16	5.6	11	11	9.9	.59	.72	12	12	28	31	31	11
17	3.8	11	11	9.9	5.4	5.3	6.8	12	28	31	31	11
18	5.4	11	12	9.4	8.6	4.6	5.0	12	28	31	32	11
19	4.9	11	12	9.3	4.4	.66	6.5	11	27	31	32	11
20	9.4	12	12	9.1	5.7	4.2	4.8	11	26	31	32	11
21	9.9	12	12	8.8	5.8	11	5.2	12	26	31	25	11
22	9.6	12	12	8.8	6.8	11	5.4	12	27	31	15	11
23	9.9	12	12	8.8	1.1	12	5.9	12	27	31	15	11
24	9.9	12	12	9.6	.90	12	4.6	12	27	31	16	11
25	9.9	12	12	5.8	.80	12	5.7	12	27	31	14	11
26	9.9	12	12	4.8	.80	12	5.4	12	27	31	14	11
27	9.1	12	12	6.4	.78	12	6.8	12	27	31	13	11
28	9.2	12	11	6.1	.85	14	6.1	23	27	31	15	11
29	9.3	12	11	6.7	---	12	5.3	31	27	31	13	11
30	8.8	11	11	5.8	---	12	5.8	31	27	31	13	11
31	8.8	---	11	6.3	---	12	---	29	---	31	14	---
TOTAL	263.1	292.0	351	275.2	105.34	208.48	272.3	424.9	821	924	795	363
MEAN	8.49	9.73	11.3	8.88	3.76	6.73	9.08	13.7	27.4	29.8	25.6	12.1
MAX	11	12	12	11	8.6	14	13	31	29	31	32	14
MIN	3.8	5.6	11	4.8	.42	.66	4.6	6.2	26	26	13	11
AC-FT	522	579	696	546	209	414	540	843	1630	1830	1580	720
CAL YR 1978 TOTAL	11264.16			MEAN 30.9	MAX 1020	MIN .44	AC-FT 22340					
WTR YR 1979 TOTAL	5095.32			MEAN 14.0	MAX 32	MIN .42	AC-FT 10110					

11176500 ARROYO VALLE NEAR LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1959 to December 1978 (discontinued).

CHEMICAL ANALYSES: Water years 1953, 1959-66.

WATER TEMPERATURES: Water years 1960-61, 1963 to December 1978 (discontinued).

SEDIMENT RECORDS: Water years 1963-67.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1959 to September 1961, October 1962 to December 1978.

SEDIMENT RECORDS: October 1962 to September 1967.

INSTRUMENTATION.--Temperature recorder since October 1963.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 30.5°C June 14, 1966, June 29, 1974; minimum recorded, 4.0°C Jan. 2, Dec. 28, 1966, Dec. 14, 1967.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 17.5°C Oct. 16; minimum for period recorded, 6.5°C Dec. 16, 20-23.

TEMPERATURE, WATER (DEG. C), PERIOD OCTOBER TO DECEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15.0	14.0	13.5	13.0	10.5	10.0						
2	15.0	14.5	14.0	13.0	10.0	10.0						
3	15.5	14.0	14.0	13.0	10.0	10.0						
4	16.5	14.5	13.5	13.0	10.0	10.0						
5	15.5	14.5	14.0	13.0	10.0	10.0						
6	15.5	14.5	14.0	13.0	9.5	8.0						
7	15.0	14.0	14.0	13.0	8.5	8.0						
8	15.5	14.0	14.0	13.5	8.0	7.0						
9	15.5	14.5	14.5	13.5	7.5	7.0						
10	15.5	14.0	13.5	13.0	7.0	7.0						
11	16.0	14.5	13.0	12.0	7.0	7.0						
12	17.0	15.0	12.5	12.0	7.5	7.0						
13	17.0	16.0	12.5	11.5	7.0	7.0						
14	16.5	15.5	11.5	10.5	7.0	7.0						
15	17.0	16.0	10.5	10.0	7.0	7.0						
16	17.5	15.5	10.5	10.5	7.0	6.5						
17	16.0	15.0	10.5	10.0	7.0	7.0						
18	15.5	14.5	11.0	10.0	7.0	7.0						
19	15.5	15.0	11.0	10.5	7.0	7.0						
20	15.5	15.0	11.0	11.0	7.0	6.5						
21	15.0	15.0	11.0	11.0	7.0	6.5						
22	15.0	14.5	11.0	11.0	7.0	6.5						
23	15.0	14.0	11.0	11.0	7.0	6.5						
24	15.0	14.0	11.0	11.0	---	---						
25	15.0	14.0	11.0	11.0	---	---						
26	14.5	14.0	11.0	10.5	---	---						
27	14.5	14.0	11.0	10.5	---	---						
28	14.5	13.5	10.5	10.0	---	---						
29	14.0	13.5	10.5	10.0	---	---						
30	13.5	13.0	10.5	10.0	---	---						
31	13.5	13.0	---	---	---	---						
MONTH	17.5	13.0	14.5	10.0	10.5	6.5						

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 0.4 mi (0.6 km) northwest of Pleasanton, and 5.8 mi (9.3 km) west of Livermore.

DRAINAGE AREA.--171 mi² (443 km²).

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 (95.037 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Del Valle Reservoir 10 mi (16 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm³). Water imported from Sacramento-San Joaquin Delta (see REMARKS for station 11176500). Flow regulated by pumping and gravel operations above station.

AVERAGE DISCHARGE.--11 years (1958-68), 27.7 ft³/s (0.784 m³/s), 20,050 acre-ft/yr (24.7 hm³/yr); 11 years (1969-79), 15.5 ft³/s (0.439 m³/s), 11,230 acre-ft/yr (13.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft³/s (320 m³/s) Apr. 3, 1958, gage height, 25.36 ft (7.730 m); no flow at times in most years. Maximum discharge since construction of Del Valle Dam in 1968, 1,060 ft³/s (30.0 m³/s) Feb. 13, 1973, gage height, 11.17 ft (3.405 m); maximum gage height, 11.43 ft (3.484 m) Mar. 3, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 105 ft³/s (2.97 m³/s) Jan. 15, gage height, 8.46 ft (2.579 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	2.8	2.5	1.9	6.0	4.1	0	11	12	17	5.2
2	0	0	2.5	2.7	1.6	4.8	4.0	0	11	12	17	5.1
3	0	0	2.7	2.8	1.6	3.5	4.3	0	11	12	17	4.7
4	.08	0	3.1	2.5	1.2	2.1	4.0	0	11	12	17	4.5
5	.16	0	3.0	2.9	1.1	1.3	3.8	0	12	12	17	4.4
6	.01	0	2.8	2.3	1.1	.76	3.8	0	13	12	17	4.4
7	0	0	2.8	3.6	.37	.34	3.8	.41	13	12	17	4.2
8	.09	0	2.6	16	0	.08	3.8	1.4	13	12	17	4.2
9	.28	0	2.9	6.7	0	.15	4.0	1.9	13	12	18	3.9
10	.02	0	3.3	11	0	.34	4.0	2.6	13	13	18	3.7
11	0	0	3.3	37	0	.11	3.4	2.0	13	13	18	3.5
12	0	0	3.3	14	0	0	3.6	1.9	14	14	18	3.3
13	0	0	3.3	15	.76	0	3.6	2.0	14	14	18	3.1
14	0	0	3.3	29	.37	0	3.6	1.9	14	14	18	2.9
15	0	0	3.3	37	0	0	3.6	2.3	14	15	19	2.8
16	0	0	3.2	18	.86	.04	3.8	2.2	14	15	19	2.4
17	0	0	4.1	13	0	.35	4.0	2.4	14	15	19	2.0
18	0	.09	4.3	9.9	1.2	.40	3.7	2.5	14	15	19	1.6
19	0	1.8	4.2	8.2	.06	.25	2.1	2.4	14	15	19	1.6
20	0	12	4.0	6.7	8.6	0	1.3	2.5	13	15	19	1.5
21	0	7.2	4.0	6.2	17	0	.80	2.4	13	15	19	1.5
22	0	7.1	3.8	5.4	20	0	1.4	2.4	13	16	17	1.5
23	0	4.8	3.7	4.8	18	0	1.0	2.5	12	16	12	1.6
24	0	3.6	3.7	4.8	10	0	.03	2.5	12	15	9.4	1.5
25	0	3.2	3.7	4.5	6.4	.47	0	2.7	12	15	8.3	1.5
26	0	2.9	3.8	4.2	4.8	2.7	.76	2.7	12	15	7.5	1.4
27	0	2.7	3.8	3.3	3.7	7.3	.04	2.4	12	15	6.6	1.7
28	0	2.7	3.7	3.5	9.0	13	0	2.1	12	15	5.8	1.6
29	0	2.8	3.5	2.3	---	8.6	0	2.7	12	15	5.8	1.5
30	0	2.8	3.5	2.3	---	5.0	0	6.7	12	16	5.8	1.4
31	0	---	3.8	1.9	---	4.3	---	10	---	17	5.5	---
TOTAL	.64	53.69	105.8	284.0	109.62	61.89	76.33	67.51	381	436	460.7	84.2
MEAN	.021	1.79	3.41	9.16	3.92	2.00	2.54	2.18	12.7	14.1	14.9	2.81
MAX	.28	12	4.3	37	20	13	4.3	10	14	17	19	5.2
MIN	0	0	2.5	1.9	0	0	0	0	11	12	5.5	1.4
AC-FT	1.3	106	210	563	217	123	151	134	756	865	914	167
CAL YR 1978	TOTAL	8153.01	MEAN	22.3	MAX	865	MIN	0	AC-FT	16170		
WTR YR 1979	TOTAL	2121.38	MEAN	5.81	MAX	37	MIN	0	AC-FT	4210		

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, 1979.
 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 were collected by Alameda County Water District.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 736 micromhos Mar. 30, 1976; minimum recorded, 82 micromhos Mar. 2, 1976.

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 559 micromhos Aug. 26; minimum recorded, 119 micromhos Feb. 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
DEC 06...	1000	3.0	489	7.6	6.0	.50	170	38	19
MAR 07...	1100	.10	442	8.6	17.0	2.5	150	31	17
MAY 30...	1130	6.9	473	7.9	23.0	1.1	200	33	28

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
DEC 06...	51	284	.39	2.30	.24	.01	.25	.02	.10
MAR 07...	41	256	.35	.07	.12	.01	.13	.00	.10
MAY 30...	44	291	.40	5.42	.15	.01	.16	.01	.10

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	494	478	485	473	455	460
2	---	---	---	---	---	---	502	482	488	462	454	458
3	---	---	---	---	---	---	498	480	485	462	456	458
4	552	532	541	---	---	---	500	476	483	461	455	458
5	544	518	529	---	---	---	496	474	486	456	444	452
6	526	518	523	---	---	---	494	482	487	461	455	458
7	---	---	---	---	---	---	496	482	487	456	362	422
8	536	512	524	---	---	---	495	479	482	407	147	306
9	530	508	522	---	---	---	492	474	480	---	---	---
10	522	506	517	---	---	---	494	474	480	---	---	---
11	---	---	---	---	---	---	491	475	479	---	---	---
12	---	---	---	---	---	---	486	468	476	---	---	---
13	---	---	---	---	---	---	491	471	476	---	---	---
14	---	---	---	---	---	---	492	472	478	---	---	---
15	---	---	---	---	---	---	491	473	477	---	---	---
16	---	---	---	---	---	---	491	473	478	---	---	---
17	---	---	---	---	---	---	480	396	447	---	---	---
18	---	---	---	536	532	533	461	395	441	---	---	---
19	---	---	---	534	474	520	476	450	465	---	---	---
20	---	---	---	498	191	402	503	463	469	---	---	---
21	---	---	---	456	236	388	474	462	466	---	---	---
22	---	---	---	468	358	421	494	464	470	---	---	---
23	---	---	---	506	470	483	475	459	466	414	406	410
24	---	---	---	496	480	489	472	460	464	425	409	414
25	---	---	---	498	484	490	469	459	463	---	---	---
26	---	---	---	526	482	492	464	458	461	---	---	---
27	---	---	---	524	482	490	461	455	458	430	408	414
28	---	---	---	498	482	488	461	455	459	425	409	414
29	---	---	---	504	478	487	460	456	458	432	410	420
30	---	---	---	492	478	484	461	455	458	425	419	421
31	---	---	---	---	---	---	474	454	461	428	420	424
MONTH	552	506	526	536	191	474	503	395	471	473	147	426

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 (0.5 km) upstream from small left-bank tributary, 0.8 mi (1.3 km) downstream from highway bridge, and 3.2 mi (5.1 km) south of Pleasanton.

DRAINAGE AREA.--405 mi² (1,049 km²).

PERIOD OF RECORD.--January 1912 to September 1930, October 1969 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 251.40 ft (76.627 m) National Geodetic Vertical Datum of 1929. January 1912 to September 1917, at site 3.0 mi (4.8 km) upstream at different datum. October 1917 to September 1930, at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--Records good. Flow partly regulated by Del Valle Reservoir 15 mi (24 km) upstream, capacity, 77,100 acre-ft (95.1 hm³). Water imported from Sacramento-San Joaquin Delta (see REMARKS for station 11176500). Water from South Bay Aqueduct at times imported through Vallecitos Creek 1.5 mi (2.4 km) downstream.

AVERAGE DISCHARGE.--17 years (water years 1913-19, 1921-30), 42.5 ft³/s (1.204 m³/s), 30,790 acre-ft/yr (38.0 hm³/yr); 10 years (water years 1970-79), 46.0 ft³/s (1.303 m³/s), 33,330 acre-ft/yr (41.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 9,810 ft³/s (278 m³/s) Jan. 25, 1914; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,860 ft³/s (52.7 m³/s) Jan. 15, gage height, 9.76 ft (2.975 m); minimum daily, 6.8 ft³/s (0.19 m³/s) Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	7.9	19	18	18	188	37	21	26	26	29	15
2	9.3	11	17	16	20	77	37	19	24	25	32	14
3	11	8.4	16	19	19	59	36	19	26	27	31	15
4	10	9.3	16	17	20	53	35	19	26	23	28	16
5	8.5	8.7	15	18	18	46	32	21	27	23	25	16
6	8.6	10	15	21	18	40	34	25	28	23	29	15
7	11	9.4	15	26	19	39	38	59	28	24	27	15
8	9.2	9.6	15	213	18	34	35	23	28	24	28	17
9	11	9.6	13	91	17	34	35	26	26	25	26	17
10	11	7.4	17	39	18	31	32	23	26	30	29	19
11	11	9.9	19	787	17	34	29	20	26	27	28	17
12	9.6	16	16	175	17	30	28	19	24	28	26	15
13	8.8	33	16	83	72	29	28	20	23	24	29	12
14	6.8	11	17	375	115	28	30	19	27	27	32	14
15	9.1	9.6	19	927	48	27	27	21	29	27	31	12
16	10	9.3	14	176	105	42	30	23	29	25	34	13
17	9.8	10	36	94	53	49	37	22	31	28	33	12
18	11	11	34	91	79	29	27	24	28	28	33	12
19	9.8	12	24	61	104	29	24	22	27	30	33	13
20	11	102	15	57	310	26	22	23	28	30	36	14
21	9.5	165	16	52	1070	24	22	21	26	34	34	15
22	10	64	18	47	764	22	23	26	27	34	31	14
23	9.5	32	17	40	418	25	31	23	22	32	26	12
24	7.5	24	23	39	156	21	25	22	25	36	25	17
25	9.3	18	22	32	96	21	22	25	23	37	26	19
26	8.7	21	17	28	78	30	41	22	25	35	26	16
27	8.8	17	17	26	52	134	27	18	24	34	23	14
28	9.5	17	17	31	83	150	22	17	23	34	16	14
29	11	17	16	24	---	92	21	18	26	34	19	13
30	11	16	17	20	---	50	21	22	22	33	18	14
31	9.8	---	19	19	---	38	---	24	---	28	16	---
TOTAL	301.1	706.1	567	3662	3822	1531	888	706	780	895	859	441
MEAN	9.71	23.5	18.3	118	137	49.4	29.6	22.8	26.0	28.9	27.7	14.7
MAX	11	165	36	927	1070	188	41	59	31	37	36	19
MIN	6.8	7.4	13	16	17	21	21	17	22	23	16	12
AC-FT	597	1400	1120	7260	7580	3040	1760	1400	1550	1780	1700	875
CAL YR 1978 TOTAL	27454.4		MEAN 75.2	MAX 1390	MIN 6.8	AC-FT 54460						
WTR YR 1979 TOTAL	15158.2		MEAN 41.5	MAX 1070	MIN 6.8	AC-FT 30070						

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 (213 m) upstream from mouth, and 0.3 mi (0.5 km) east of Sunol.

DRAINAGE AREA.--7.48 mi² (19.37 km²).

PERIOD OF RECORD.--Water years 1975 to current year.
 CHEMICAL ANALYSES: Water years 1975 to current year.
 SPECIFIC CONDUCTANCE: Water years 1975 to current year.
 WATER TEMPERATURES: Water years 1975 to 1978.

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.

REMARKS.--Differences between recorder values before adjustment and field measurement values exceeded ±10 percent micromhos for specific conductance at times during the year.

COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,400 micromhos Nov. 22, 1977; minimum recorded, 117 micromhos Feb. 9, 1978.

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,160 micromhos Feb. 18; minimum recorded, 149 micromhos Jan. 8.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	HARDNESS (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	
JAN 31...	1015	.40	553	7.7	6.0	1.4	160	38	17	
MAR 07...	1030	2.0	620	7.9	15.0	.50	220	41	28	
MAY 30...	1345	--	280	8.0	25.0	16	180	18	32	
DATE	AS CL	CHLORIDE, DIS-SOLVED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
JAN 31...	170	490	.67	.53	1.8	.06	1.9	.19	.20	
MAR 07...	120	417	.57	2.25	2.0	.03	2.0	.00	.20	
MAY 30...	32	186	.25	--	.44	.07	.51	.03	.10	

ALAMEDA CREEK BASIN

11177200 VALLECITOS CREEK AT SUNOL, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	483	467	477	480	466	473	665	557	584	609	587	599
2	499	481	490	468	414	441	558	422	514	624	592	608
3	507	495	501	441	423	432	555	379	500	653	623	639
4	511	481	499	437	417	424	559	533	543	670	640	656
5	511	493	505	438	414	425	598	560	583	673	601	637
6	515	495	507	446	418	434	629	597	613	606	598	603
7	495	465	478	466	440	454	626	608	619	598	536	578
8	475	465	470	473	457	464	603	579	587	601	149	489
9	483	469	479	481	463	471	586	578	582	630	586	609
10	493	483	487	470	408	445	593	581	587	657	513	639
11	494	460	471	458	442	452	600	592	595	600	290	412
12	460	448	453	481	381	451	615	601	607	733	487	623
13	462	450	458	465	293	369	620	606	613	787	717	757
14	470	408	438	490	354	433	601	533	579	862	246	591
15	470	434	455	538	418	480	532	342	436	493	243	408
16	472	450	459	543	477	523	563	347	441	644	512	583
17	474	460	468	534	522	527	569	301	465	727	553	667
18	470	464	467	537	517	528	526	292	394	707	565	645
19	476	454	463	534	458	503	533	439	488	818	710	758
20	470	446	459	535	255	447	530	404	464	815	767	792
21	467	415	440	596	294	474	589	401	527	882	808	842
22	455	443	448	572	392	492	586	378	523	903	851	869
23	466	442	455	589	483	547	615	589	606	916	850	885
24	478	452	466	586	384	516	588	376	524	902	806	873
25	483	389	461	595	585	588	555	347	476	893	857	877
26	483	393	439	628	596	617	638	390	532	912	874	894
27	444	424	431	645	621	629	655	623	637	963	879	915
28	434	420	425	646	632	640	654	640	647	958	900	926
29	438	338	395	663	647	652	642	616	628	965	921	940
30	429	351	394	676	656	669	627	571	606	969	803	904
31	467	373	421	---	---	---	602	572	590	906	838	888
MONTH	515	338	460	676	255	500	665	292	551	969	149	713
	FEBRUARY			MARCH			APRIL			MAY		
1	955	867	912	486	308	395	794	692	755	428	354	382
2	902	710	842	600	476	537	806	690	774	392	334	354
3	921	695	851	638	552	603	806	754	792	381	345	359
4	905	653	791	679	611	646	814	778	800	511	391	447
5	922	692	834	713	649	682	827	753	795	610	520	584
6	919	679	835	761	659	704	793	635	743	640	488	558
7	930	760	874	755	667	711	801	611	721	637	517	570
8	875	661	793	779	677	727	799	567	696	679	553	630
9	874	686	794	761	675	725	799	581	708	682	660	672
10	890	648	785	777	679	733	803	639	741	686	664	675
11	897	631	789	789	689	748	807	651	774	699	679	691
12	934	682	823	791	665	742	797	593	749	717	701	707
13	936	568	782	805	731	765	787	631	742	718	694	707
14	1080	660	922	793	741	768	791	771	780	732	718	724
15	950	782	887	781	631	734	780	600	733	732	550	680
16	1130	763	889	781	647	740	770	534	686	744	600	694
17	1080	867	941	781	651	727	747	675	712	746	656	718
18	1160	545	794	804	646	741	783	755	777	746	734	738
19	837	569	692	810	662	757	820	746	787	744	726	737
20	755	313	574	814	660	766	746	506	688	740	504	646
21	439	159	293	800	664	752	745	403	505	720	558	665
22	431	169	290	790	614	729	457	321	430	734	720	728
23	417	239	328	776	628	722	456	402	431	742	734	739
24	548	422	489	786	622	720	450	416	433	740	700	725
25	628	528	574	788	592	715	441	409	422	742	732	737
26	646	476	550	808	610	732	455	323	418	740	287	486
27	676	556	611	844	486	635	468	414	430	287	275	281
28	686	308	602	710	420	548	434	402	419	293	275	282
29	---	---	---	664	544	591	431	383	404	301	271	285
30	---	---	---	720	592	656	429	373	398	295	273	284
31	---	---	---	770	636	731	---	---	---	301	271	285
MONTH	1160	159	719	844	308	693	827	321	641	746	271	573

ALAMEDA CREEK BASIN

11179000 ALAMEDA CREEK NEAR NILES, CA

LOCATION.--Lat 37°35'14", long 121°57'35", in NW¼ sec.15, T.4 S., R.1 W., Alameda County, Hydrologic Unit 18050004, on right bank 0.3 mi (0.5 km) downstream from railroad bridge, and 1.2 mi (1.9 km) northeast of Niles.

DRAINAGE AREA.--633 mi² (1,639 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1891 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "at Niles Dam" 1891-1900, and as "at Sunolglen" 1901-21.

REVISED RECORDS.--WSP 1315-B: 1921. WSP 1515: 1951-52, 1956. WSP 1565: 1945.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.65 ft (26.106 m) National Geodetic Vertical Datum of 1929. Prior to 1901, nonrecording gage at site 1 mi (2 km) upstream at different datum. 1901 to Sept. 30, 1914, nonrecording gage and Oct. 1, 1914, to Sept. 30, 1916, water-stage recorder at site 4.5 mi (7.2 km) upstream at different datum. Oct. 1, 1916, to Dec. 17, 1923, water-stage recorder at site 800 ft (244 m) upstream at different datum.

REMARKS.--Records good. Flow regulated since 1916, although dam not completed until 1925, by Calaveras Reservoir usable capacity, 96,800 acre-ft (119 hm³), most of which is diverted for San Francisco water supply; since February 1965 by San Antonio Reservoir, capacity, 51,000 acre-ft (62.9 hm³); and since September 1968 by Del Valle Reservoir, 23 mi (37 km) upstream, capacity, 77,100 acre-ft (95.1 hm³). 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 (36.4 km²) above station.

AVERAGE DISCHARGE.--71 years (water years 1892-1962), 123 ft³/s (3.483 m³/s), 89,050 acre-ft/yr (110 hm³/yr); 17 years (water years 1963-79), 90.6 ft³/s (2.566 m³/s), 65,640 acre-ft/yr (80.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft³/s (821 m³/s) Dec. 23, 1955, gage height, 14.9 ft (4.54 m); minimum (water years 1892-1962), no flow at times; minimum daily (water years 1963-79), 1.4 ft³/s (0.040 m³/s) Dec. 7, 8, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,060 ft³/s (58.3 m³/s) Feb. 21, gage height, 6.07 ft (1.850 m); minimum daily, 6.8 ft³/s (0.19 m³/s) Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	8.9	17	20	27	294	43	29	41	65	33	36
2	9.6	12	18	20	25	106	42	28	42	61	46	43
3	9.6	12	16	22	24	83	41	28	47	62	50	44
4	8.2	12	16	20	24	73	39	25	44	69	48	43
5	7.4	11	15	20	23	63	38	22	37	56	51	43
6	6.8	12	16	24	23	55	40	32	39	44	56	43
7	10	12	16	21	22	55	41	57	37	40	55	43
8	9.5	12	18	160	22	50	39	29	48	41	54	45
9	10	11	14	120	21	51	41	28	55	41	53	45
10	10	11	18	35	20	55	37	26	56	45	48	44
11	11	10	20	772	20	53	37	23	54	43	42	39
12	9.5	12	20	205	20	49	33	23	53	45	43	37
13	9.5	33	17	73	45	47	32	22	55	43	41	35
14	7.4	17	19	321	110	41	32	22	60	45	46	35
15	9.5	11	21	1120	41	34	30	22	71	48	46	24
16	11	13	17	227	87	47	32	23	68	41	50	13
17	11	13	25	106	49	60	42	21	72	28	42	12
18	12	14	43	101	55	40	32	20	64	27	32	13
19	11	14	29	63	101	42	28	27	69	28	32	13
20	11	40	20	50	234	37	28	34	68	28	42	14
21	11	190	17	46	1280	33	36	26	65	31	46	11
22	10	66	20	42	944	30	36	24	66	31	47	15
23	8.7	35	20	38	679	33	47	25	61	29	41	13
24	9.6	25	24	36	246	32	50	22	67	32	43	12
25	9.9	19	25	36	156	35	42	24	68	40	43	16
26	11	19	22	29	133	38	40	27	68	46	39	17
27	10	17	20	32	97	134	55	35	67	47	41	13
28	11	17	20	37	103	166	33	33	64	47	36	11
29	12	17	20	36	---	127	29	32	68	46	35	10
30	11	17	20	30	---	66	29	34	64	32	35	10
31	9.8	---	21	31	---	48	---	40	---	29	36	---
TOTAL	307.2	712.9	624	3893	4631	2077	1124	863	1738	1310	1352	792
MEAN	9.91	23.8	20.1	126	165	67.0	37.5	27.8	57.9	42.3	43.6	26.4
MAX	12	190	43	1120	1280	294	55	57	72	69	56	45
MIN	6.8	8.9	14	20	20	30	28	20	37	27	32	10
AC-FT	609	1410	1240	7720	9190	4120	2230	1710	3450	2600	2680	1570
CAL YR 1978	TOTAL	34008.3	MEAN	93.2	MAX	2000	MIN	6.8	AC-FT	67460		
WTR YR 1979	TOTAL	19424.1	MEAN	53.2	MAX	1280	MIN	6.8	AC-FT	38530		

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITRO- GEN, NITRITE DIS- SOLVED (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)	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. TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPATE DISSOL. (MG/L AS P)
	OCT 19...	--	15	15	.06	.01	1.7	2.0	1.8	2.0	17	6.50
NOV 07...	--	18	18	.01	.02	1.4	1.8	1.4	1.8	19	7.40	--
DEC 06...	.05	--	15	--	.06	--	--	--	--	--	--	--
07...	--	13	15	.01	.00	1.9	1.7	1.9	1.7	15	5.20	5.3
JAN 10...	--	4.9	4.9	.02	.02	1.2	.82	1.2	.84	6.1	1.80	1.3
MAR 07...	.03	--	6.7	--	.03	--	--	--	--	--	--	--
22...	--	8.5	9.1	.02	.01	.80	.91	.82	.92	9.3	3.00	1.1
APR 25...	--	3.9	3.9	.06	.01	.53	.53	.59	.54	4.5	1.50	1.6
MAY 17...	--	8.3	7.9	.02	.00	.64	1.1	.66	1.1	9.0	3.10	2.5
AUG 16...	--	1.8	1.8	.26	.26	1.0	.16	1.3	.42	3.1	1.50	2.6
SEP 20...	--	8.7	8.5	.07	.00	1.2	1.6	1.3	1.6	10	5.90	4.6
DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT 19...	6.2	--	--	--	--	--	--	--	--	--	--	--
NOV 07...	6.7	.40	6	0	980	0	0	20	.0	1	0	20
DEC 06...	--	.60	--	--	--	--	--	--	--	--	--	--
07...	7.2	--	--	--	--	--	--	--	--	--	--	--
JAN 10...	7.5	--	--	--	--	--	--	--	--	--	--	--
MAR 07...	--	.20	--	--	900	--	--	--	--	--	--	--
22...	5.4	--	--	--	1100	--	--	--	--	--	--	--
APR 25...	6.1	--	--	--	--	--	--	--	--	--	--	--
MAY 17...	4.7	--	--	--	--	--	--	--	--	--	--	--
AUG 16...	5.1	--	--	--	--	--	--	--	--	--	--	--
SEP 20...	4.5	--	--	--	820	--	--	--	--	--	--	--

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1150	1110	1130	1180	1170	1180	1030	1000	1020	1020	1000	1010
2	1170	1120	1140	1170	1150	1160	1040	1020	1030	1020	1010	1010
3	1150	1130	1140	1170	1160	1170	1050	1030	1040	1020	1000	1010
4	1160	1140	1150	1170	1160	1170	1050	1040	1050	1020	1010	1010
5	1160	1140	1150	1170	1160	1170	1050	1040	1050	1030	1010	1020
6	1180	1150	1160	1170	1150	1160	1050	1040	1050	1030	1020	1030
7	1180	1160	1170	1140	1120	1130	1050	1040	1050	1030	994	1010
8	1170	1150	1160	1160	1130	1140	1050	1030	1040	1000	392	860
9	1170	1150	1160	1150	1130	1140	1040	1030	1040	648	370	498
10	1160	1150	1160	1160	1140	1150	1040	1030	1040	810	658	738
11	1150	1130	1140	1160	1150	1150	1040	1030	1040	---	---	---
12	1140	1120	1130	1160	1140	1150	1040	1030	1040	---	---	---
13	1150	1130	1140	1150	998	1100	1050	1030	1040	---	---	---
14	1150	1130	1140	996	876	910	1050	1040	1050	---	---	---
15	1180	1160	1170	958	920	940	1050	1040	1050	---	---	---
16	1190	1150	1180	1110	964	1040	1050	1040	1040	---	---	---
17	1210	1180	1190	1140	1120	1130	1050	1040	1040	---	---	---
18	1200	1160	1180	1150	1130	1140	1050	1040	1040	---	---	---
19	1170	1150	1160	1160	1150	1150	1040	1020	1030	---	---	---
20	1170	1120	1150	1150	928	1140	1020	998	1010	---	---	---
21	1140	1060	1120	824	674	714	1000	988	995	---	---	---
22	1130	1050	1100	760	726	744	994	980	988	---	---	---
23	1160	1020	1090	798	760	779	992	978	987	---	---	---
24	1160	1140	1160	828	800	813	992	982	989	---	---	---
25	1170	1150	1160	866	830	845	994	982	990	---	---	---
26	1160	1130	1150	906	868	884	996	986	993	---	---	---
27	1160	1140	1150	942	908	923	996	986	992	---	---	---
28	1170	1150	1160	966	944	953	1000	992	996	---	---	---
29	1180	1160	1170	988	968	977	1010	994	1000	---	---	---
30	1190	1170	1180	1000	990	996	1010	996	1010	---	---	---
31	1190	1180	1190	---	---	---	1020	998	1010	---	---	---
MONTH	1210	1020	1150	1180	674	1040	1050	978	1020	1030	370	920
	FEBRUARY			MARCH			APRIL			MAY		
1	1050	1030	1040	---	---	---	1040	1030	1040	1010	994	1000
2	1070	1040	1050	---	---	---	1050	1040	1050	1010	1000	1010
3	1070	1040	1060	---	---	---	1050	1040	1040	1020	1010	1010
4	1080	1040	1070	---	---	---	1040	1030	1040	1040	1020	1020
5	1090	1060	1080	962	952	956	1050	1050	1050	1050	1040	1050
6	1100	1070	1090	983	963	973	1060	1050	1050	1070	1050	1060
7	1110	1090	1100	1010	985	999	1070	1050	1060	---	---	---
8	1120	1100	1110	1020	1000	1010	1070	1070	1070	---	---	---
9	1130	1100	1120	1070	1020	1050	1090	1080	1080	1030	1010	1020
10	1130	1110	1120	1080	1060	1080	1090	1070	1080	1020	1000	1010
11	1130	1110	1120	---	---	---	1090	1070	1080	1010	1000	1010
12	1180	1130	1180	---	---	---	1090	1080	1080	1020	1000	1010
13	---	---	---	---	---	---	1090	1070	1080	1030	1020	1020
14	---	---	---	---	---	---	1090	1060	1080	1040	1030	1030
15	---	---	---	---	---	---	1100	1070	1080	1040	1040	1040
16	---	---	---	---	---	---	1090	1080	1090	1050	1040	1040
17	---	---	---	---	---	---	1080	1060	1070	1090	1020	1070
18	---	---	---	---	---	---	1060	1030	1050	1070	1060	1060
19	---	---	---	---	---	---	1040	1020	1030	1070	1050	1070
20	---	---	---	---	---	---	1030	1010	1020	1030	973	1000
21	---	---	---	---	---	---	1010	972	994	957	927	934
22	---	---	---	---	---	---	958	938	949	935	913	921
23	---	---	---	1160	1150	1150	916	898	909	942	924	930
24	---	---	---	1180	1160	1160	880	824	862	942	930	934
25	---	---	---	1170	1130	1150	868	804	822	940	926	933
26	---	---	---	1140	1120	1130	984	894	968	941	924	929
27	---	---	---	---	---	---	998	894	931	932	849	881
28	---	---	---	---	---	---	920	888	900	846	818	831
29	---	---	---	---	---	---	970	924	957	814	790	800
30	---	---	---	---	---	---	996	970	989	786	758	769
31	---	---	---	1040	1030	1040	---	---	---	764	746	755
MONTH	1180	1030	1100	1180	952	1060	1100	804	1020	1090	746	971

ALAMEDA CREEK BASIN

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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 (274 m) downstream from bridge on State Highway 238 in Decoto District in Union City, and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--9.39 mi² (24.32 km²).

PERIOD OF RECORD.--October 1916 to September 1919 (published as "near Decoto"), April 1959 to current year.

REVISED RECORDS.--WSP 2129: 1962(M), 1968(P), 1965(P). WDR CA-76-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.12 ft (25.945 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 1, 1959, at site 1.4 mi (2.3 km) downstream at different datum.

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

AVERAGE DISCHARGE.--23 years, 2.02 ft³/s (0.057 m³/s), 1,460 acre-ft/yr (1.80 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 930 ft³/s (26.3 m³/s) Oct. 13, 1962, gage height, 5.27 ft (1.606 m) from outside gage, from rating curve extended above 140 ft³/s (3.96 m³/s) on basis of slope-area measurement of maximum flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 40 ft³/s (1.1 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 11	1300	*258	7.31	3.11	0.948	Feb. 21	0445	197	5.58	2.94	0.896
Jan. 14	2400	190	5.38	2.92	.890	Feb. 28	2300	61	1.73	2.40	.732

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.01	0	1.2	14	3.0	.73	.01			
2		0	0	0	.80	6.9	2.6	.70	.01			
3		0	0	0	.31	5.9	2.7	.64	.01			
4		0	0	0	.37	5.3	2.1	.63	.01			
5		0	0	0	.35	4.5	1.9	.62	.01			
6		0	0	0	.32	3.8	2.0	.87	.01			
7		0	0	0	1.0	3.3	1.9	1.2	.01			
8		0	0	.30	1.9	2.9	1.6	.83	.01			
9		0	0	.05	2.1	2.6	1.7	.78	.01			
10		0	0	.07	.90	2.4	1.8	.81	.01			
11		0	0	52	.24	2.2	2.4	.74	.01			
12		0	0	9.7	.32	2.1	2.3	.70	0			
13		0	0	3.5	1.7	2.0	2.1	.67	0			
14		0	0	19	4.2	1.8	2.0	.65	0			
15		0	0	51	1.7	1.8	1.9	.66	0			
16		0	0	11	4.7	2.5	1.8	.65	0			
17		0	0	8.6	2.9	2.5	2.1	.61	0			
18		0	0	6.6	3.9	2.0	1.8	.52	0			
19		0	0	3.9	4.0	2.3	1.4	.59	0			
20		0	0	2.9	25	1.9	.84	.50	0			
21		.01	0	2.7	63	1.6	.84	.39	0			
22		0	0	2.1	60	1.4	.90	.33	0			
23		0	0	1.7	32	1.3	1.1	.30	0			
24		0	0	1.5	15	1.2	.90	.30	0			
25		0	0	1.2	9.5	1.2	.86	.25	0			
26		0	0	1.2	8.9	1.6	1.1	.08	0			
27		0	0	.73	5.5	7.1	1.0	.02	0			
28		0	0	.70	11	10	.82	.02	0			
29		0	0	.60	---	6.3	1.2	.02	0			
30		0	0	1.4	---	4.1	1.9	.02	0			
31		---	0	1.1	---	3.5	---	.02	---			---
TOTAL	0	.01	.01	183.55	262.81	112.0	50.56	15.85	.11	0	0	0
MEAN	0	.0003	.0003	5.92	9.39	3.61	1.69	.51	.004	0	0	0
MAX	0	.01	.01	52	63	14	3.0	1.2	.01	0	0	0
MIN	0	0	0	0	.24	1.2	.82	.02	0	0	0	0
AC-FT	0	.02	.02	364	521	222	100	31	.2	0	0	0
CAL YR 1978	TOTAL	1394.61	MEAN	3.82	MAX	103	MIN	0	AC-FT	2770		
WTR YR 1979	TOTAL	624.90	MEAN	1.71	MAX	63	MIN	0	AC-FT	1240		

ALAMEDA CREEK BASIN

11180700 PATTERSON CREEK AT UNION CITY, CA

LOCATION.-- Lat 37°35'09" (revised), long 122°02'50", in Potrero de Los Cerritos Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.1 mi (0.2 km) downstream from effluence from Alameda Creek, 0.2 mi (0.3 km) upstream from bridge on State Highway 17 (Nimitz Freeway), and 2.0 mi (3.2 km) southwest of Decoto District in Union City.

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

GAGE.--Water-stage recorder. Datum of gage is 4.13 ft (1.259 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 26, 1966, at site 0.2 mi (0.3 km) downstream at same datum.

REMARKS.--Records fair. This stream is a distributary of Alameda Creek. (See REMARKS for Alameda Creek near Niles). Diversion by Alameda County Water District to percolation ponds between station near Niles and this station; additional percolation to ground water by placing check dams in channel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,500 ft³/s (297 m³/s) Feb. 1, 1963, gage height, 20.4 ft (6.22 m) from floodmarks; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,300 ft³/s (65.1 m³/s) Jan. 15, gage height, 9.65 ft (2.941 m), from rating curve extended above 660 ft³/s (18.7 m³/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	18	8.1	14	9.0	400	33	13				73
2	0	14	5.1	14	22	141	30	13				.21
3	0	23	3.1	14	46	96	28	10				0
4	0	21	3.4	35	25	77	28	8.8				0
5	0	23	4.7	15	26	67	29	6.5				0
6	0	20	4.8	12	24	58	35	9.0				0
7	0	21	5.2	3.3	24	55	42	63				0
8	0	20	5.3	164	23	54	49	43				0
9	0	18	3.6	252	22	45	53	5.3				0
10	0	11	1.5	48	22	61	54	12				0
11	0	7.3	5.1	989	21	55	56	3.9				0
12	0	11	8.6	376	20	55	8.3	3.0				0
13	0	30	7.5	99	33	55	6.5	3.3				0
14	0	33	7.9	350	138	52	9.3	0				0
15	0	18	7.6	1430	44	44	9.3	0				0
16	0	15	8.7	366	80	50	8.0	0				0
17	0	17	5.7	151	55	71	31	.01				0
18	0	17	28	137	43	52	27	.27				0
19	0	19	19	60	104	44	15	.22				0
20	13	95	13	47	196	37	9.2	3.6				0
21	24	244	8.5	40	1460	33	21	8.2				0
22	25	53	10	38	1100	28	38	3.1				0
23	23	28	8.0	36	890	27	59	2.8				0
24	16	13	4.8	34	354	27	60	1.6				0
25	16	2.1	13	36	206	27	64	0				0
26	22	.45	12	26	168	31	34	0				0
27	25	1.4	8.3	30	114	150	91	0				0
28	17	.83	7.0	35	107	192	25	0				0
29	18	3.6	11	37	---	188	17	0				0
30	21	4.9	11	55	---	64	15	0				0
31	20	---	13	30	---	41	---	0	---	---	---	---
TOTAL	240	802.58	262.5	4973.3	5376.0	2377	984.6	213.60	0	0	0	73.21
MEAN	7.74	26.8	8.47	160	192	76.7	32.8	6.89	0	0	0	2.44
MAX	25	244	28	1430	1460	400	91	63	0	0	0	73
MIN	0	.45	1.5	3.3	9.0	27	6.5	0	0	0	0	0
AC-FT	476	1590	521	9860	10660	4710	1950	424	0	0	0	145
CAL YR 1978	TOTAL	28272.38	MEAN 77.5	MAX 1930	MIN 0	AC-FT 56080						
WTR YR 1979	TOTAL	15302.79	MEAN 41.9	MAX 1460	MIN 0	AC-FT 30350						

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 (1.4 km) upstream from Cull Creek Dam and 1.1 mi (1.8 km) northeast of Castro Valley Post Office.

DRAINAGE AREA.--5.79 mi² (15.00 km).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1979.

GAGE.--Water stage recorder. Altitude of gage is 450 ft (137 m), from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 11	1300	327	9.26	2.80	0.853	Feb. 21	0445	*400	11.3	2.92	0.890
Jan. 15	0030	227	6.43	2.70	.823						

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0		.15	.15	.88	16	5.2	1.4	.50	.20		
2	0		.21	.15	.86	10	4.8	1.4	.49	.20		
3	0		.11	.16	.79	8.7	4.4	1.2	.45	.17		
4	0		.02	.21	.76	7.5	4.3	1.2	.41	.19		
5	0		.01	.23	.76	6.7	4.1	1.4	.35	.20		
6	0		.01	.23	.71	6.4	4.1	1.3	.31	.19		
7	0		.01	.27	.70	5.8	3.7	1.4	.31	.17		
8	0		.01	3.6	.70	5.6	3.6	1.2	.30	.17		
9	0		.01	1.3	.65	5.3	3.6	1.1	.27	.15		
10	0		.01	1.2	.64	5.1	3.1	1.0	.27	.16		
11	0		.08	61	.64	4.9	3.1	.97	.27	.17		
12	0		.12	6.6	.64	4.7	3.0	.97	.23	.16		
13	0		.12	3.3	3.4	4.5	3.0	.97	.23	.15		
14	0		.12	21	7.1	4.3	2.6	.97	.22	.14		
15	0		.12	47	1.7	4.4	2.4	.97	.20	.12		
16	0		.13	9.5	6.6	6.7	2.4	.93	.20	.12		
17	0		.40	4.9	2.6	5.8	2.4	.83	.20	.12		
18	0		.60	3.2	9.9	4.5	2.1	.83	.20	.12		
19		.02	.33	2.2	9.6	4.3	2.0	.70	.20	.12		
20		.46	.20	2.0	37	3.9	1.9	.70	.20	.10		
21		.58	.19	1.7	120	3.8	1.8	.70	.20	.10		
22		.15	.19	1.5	68	3.6	1.8	.69	.20	.09		
23		.08	.19	1.4	42	3.4	1.9	.70	.20	.08		
24	0		.19	1.3	25	3.4	1.8	.70	.20	.08		
25	0		.19	1.2	16	3.3	1.6	.70	.20	.05		
26	0		.19	.95	13	4.5	2.1	.70	.22	.04		
27	0		.19	.94	7.3	33	1.8	.62	.23	.03		
28	0		.19	.94	13	18	1.6	.56	.23	.02		
29	0		.19	.88	---	9.7	1.5	.56	.23	0		
30	0		.19	.88	---	7.0	1.4	.63	.23	0		
31		---	.15	.88	---	5.9	---	.56	---	0		---
TOTAL	0	1.29	4.82	180.77	390.93	220.7	83.1	28.56	7.95	3.61	0	0
MEAN	0	.043	.16	5.83	14.0	7.12	2.77	.92	.27	.12	0	0
MAX	0	.58	.60	61	120	33	5.2	1.4	.50	.20	0	0
MIN	0	0	.01	.15	.64	3.3	1.4	.56	.20	0	0	0
AC-FT	0	2.6	9.6	359	775	438	165	57	16	7.2	0	0

WTR YR 1979 TOTAL 921.73 MEAN 2.53 MAX 120 MIN 0 AC-FT 1830

SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to September 1979 (seasonal records only).

WATER TEMPERATURES: October 1978 to September 1979.

SEDIMENT RECORDS: October 1978 to September 1979.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1978 to September 1979.

SEDIMENT RECORDS: October 1978 to September 1979.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,930 mg/L January 11; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE: Maximum daily, 3,220 tons (2,920 metric tons) February 21; minimum daily, 0 ton (0 metric ton) many days.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1978 TO SEPTEMBER 1979

ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	4.0	---	---	---					
2			---	---	---	---	---					
3			---	---	4.5	10.5	---					
4			---	---	---	---	---					
5			6.0	---	---	12.0	---					
6			---	---	---	---	---					
7			6.0	7.5	---	---	---					
8			---	8.5	---	---	---					
9			---	8.5	---	---	---					
10			---	7.5	---	---	---					
11			6.0	10.5	---	---	---					
12			---	---	---	---	---					
13			---	8.5	10.5	---	---					
14			---	8.5	9.5	---	---					
15			---	---	9.5	---	---					
16			---	7.5	9.0	---	---					
17			8.0	7.0	---	---	---					
18			---	---	8.0	---	---					
19			---	5.0	---	---	---					
20			---	---	8.5	---	---					
21			---	---	9.0	---	---					
22			4.0	---	9.0	---	---					
23			---	---	10.5	---	---					
24			---	6.5	11.0	---	11.5					
25			3.5	---	---	---	---					
26			---	---	11.0	---	---					
27			---	---	9.0	11.5	---					
28			---	---	10.5	---	---					
29			---	---	---	---	---					
30			---	5.0	---	---	---					
31			---	---	---	---	---					

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1978 TO SEPTEMBER 1979

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	.15	20	.01
2				0	0	0	.21	13	.01
3				0	0	0	.11	11	0
4				0	0	0	.02	10	0
5				0	0	0	.01	9	0
6				0	0	0	.01	12	0
7				0	0	0	.01	16	0
8				0	0	0	.01	14	0
9				0	0	0	.01	12	0
10				0	0	0	.01	10	0
11				0	0	0	.08	16	.01
12				0	0	0	.12	14	.01
13				0	0	0	.12	12	.01
14				0	0	0	.12	11	.01
15				0	0	0	.12	10	0
16				0	0	0	.13	10	0
17				0	0	0	.40	137	.21
18				0	0	0	.60	115	.24
19				.02	25	0	.33	19	.02
20				.46	95	.34	.20	10	.01
21				.58	54	.12	.19	7	0
22				.15	16	.01	.19	6	0
23				.08	10	0	.19	6	0
24				0	0	0	.19	6	0
25				0	0	0	.19	7	0
26				0	0	0	.19	7	0
27				0	0	0	.19	7	0
28				0	0	0	.19	7	0
29				0	0	0	.19	7	0
30				0	0	0	.19	7	0
31				---	---	---	.15	7	0
TOTAL	0			1.29	---	.47	4.82	---	.54
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	.15	7	0	.88	6	.01	16	1200	52
2	.15	7	0	.86	6	.01	10	276	7.5
3	.16	14	.01	.79	6	.01	8.7	75	1.8
4	.21	12	.01	.76	6	.01	7.5	34	.70
5	.23	10	.01	.76	6	.01	6.7	22	.40
6	.23	9	.01	.71	6	.01	6.4	14	.24
7	.27	16	.01	.70	6	.01	5.8	10	.16
8	3.6	981	9.5	.70	6	.01	5.6	9	.14
9	1.3	300	1.2	.65	5	.01	5.3	8	.11
10	1.2	145	1.2	.64	5	.01	5.1	8	.11
11	61	6930	1920	.64	5	.01	4.9	7	.09
12	6.6	441	9.8	.64	5	.01	4.7	7	.09
13	3.3	110	.98	3.4	617	11	4.5	7	.09
14	21	2840	478	7.1	734	32	4.3	6	.07
15	47	4710	1030	1.7	50	.23	4.4	6	.07
16	9.5	337	11	6.6	641	22	6.7	132	2.9
17	4.9	305	5.0	2.6	85	.60	5.8	65	1.1
18	3.2	207	2.0	9.9	1690	117	4.5	28	.34
19	2.2	28	.17	9.6	1070	35	4.3	20	.23
20	2.0	12	.06	37	3240	765	3.9	15	.16
21	1.7	10	.05	120	6210	3220	3.8	12	.12
22	1.5	9	.04	68	3360	1010	3.6	10	.10
23	1.4	9	.03	42	1110	136	3.4	9	.08
24	1.3	8	.03	25	237	16	3.4	8	.07
25	1.2	8	.03	16	135	5.7	3.3	7	.06
26	.95	8	.02	13	364	14	4.5	25	.30
27	.94	7	.02	7.3	60	1.3	33	3400	303
28	.94	7	.02	13	1100	39	18	1220	64
29	.88	7	.02	---	---	---	9.7	206	5.9
30	.88	7	.02	---	---	---	7.0	50	.95
31	.88	7	.02	---	---	---	5.9	35	.56
TOTAL	180.77	---	3469.26	390.93	---	5424.95	220.7	---	443.44

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), OCTOBER 1978 TO SEPTEMBER 1979

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	5.2	25	.35	1.4			.50		
2	4.8	20	.26	1.4			.49		
3	4.4	16	.19	1.2			.45		
4	4.3	14	.16	1.2			.41		
5	4.1	13	.14	1.4			.35		
6	4.1	12	.13	1.3			.31		
7	3.7	12	.12	1.4			.31		
8	3.6	12	.12	1.2			.30		
9	3.6	11	.11	1.1			.27		
10	3.1	11	.09	1.0			.27		
11	3.1	11	.09	.97			.27		
12	3.0	11	.09	.97			.23		
13	3.0	10	.08	.97			.23		
14	2.6	10	.07	.97			.22		
15	2.4	10	.06	.97			.20		
16	2.4	10	.06	.93			.20		
17	2.4	10	.06	.83			.20		
18	2.1	10	.06	.83			.20		
19	2.0	10	.05	.70			.20		
20	1.9	9	.05	.70			.20		
21	1.8	9	.04	.70			.20		
22	1.8	9	.04	.69			.20		
23	1.9	9	.05	.70			.20		
24	1.8	9	.04	.70			.20		
25	1.6	9	.04	.70			.20		
26	2.1	20	.11	.70			.22		
27	1.8	15	.07	.62			.23		
28	1.6	12	.05	.56			.23		
29	1.5	10	.04	.56			.23		
30	1.4	9	.03	.63			.23		
31	---	---	---	.56			---		
TOTAL	83.1	---	2.85	28.56			7.95		

YEAR 918.12

9341.51

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPERATURE, WATER (DEG C)	STREAM-FLOW, INSTANTANEOUS (CFS)	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 14...	1105	8.5	15	1170	47	69	80	87	
FEB 13...	1935	10.0	5.6	1200	18	--	68	75	
18...	1640	9.5	45	9600	1170	--	22	41	
20...	1550	8.5	199	15100	8110	--	34	41	
28...	1820	10.5	18	1510	73	--	24	31	
MAR 27...	1230	11.5	77	8690	1810	--	37	47	
27...	1400	12.0	48	5040	653	--	40	51	
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 14...	92	96	97	99	100	--	--	--	
FEB 13...	79	82	85	91	98	99	99	100	
18...	60	76	87	97	99	100	--	--	
20...	51	63	76	91	98	99	100	--	
28...	39	51	64	83	97	100	--	--	
MAR 27...	58	70	79	88	97	100	--	--	
27...	62	72	79	86	94	99	100	--	

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED	BED	BED	BED		
				MAT. SIEVE DIAM. % FINER THAN .062 MM	MAT. SIEVE DIAM. % FINER THAN .125 MM	MAT. SIEVE DIAM. % FINER THAN .250 MM	MAT. SIEVE DIAM. % FINER THAN .500 MM		
SEP 13...	0930	5	.00	1	3	10	22		
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
SEP 13...		28	37	51	69	87	100		

11180965 CULL CREEK BELOW CULL CREEK DAM, NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°42'08", long 122°03'15", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.1 mi (0.2 km) downstream from Cull Creek Dam, 0.1 mi (0.2 km) upstream from mouth, and 1.7 mi (2.7 km) northeast of Castro Valley Post Office.

DRAINAGE AREA.--6.37 mi² (16.50 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1979.

GAGE.--Water-stage recorder. Altitude of gage is 210 ft (64.0 m), from topographic map.

REMARKS.--Records good. Flow regulated by Cull Creek Reservoir 0.1 mi (0.2 km) upstream, capacity, 310 acre-ft (382,000 m³). No diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 213 ft³/s (6.03 m³/s) Jan. 11, gage height, 3.45 ft (1.052 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	0	.16	0	2.0	19	5.7	1.5	.21	.03		0
2	.02	0	.02	0	2.3	9.5	5.2	1.4	.20	.01		0
3	.02	0	.01	.15	1.7	8.3	4.7	.97	.18	0		0
4	.02	0	.01	.02	1.5	7.6	4.3	.04	.13	0		0
5	.02	0	.01	.02	1.5	7.0	4.1	.96	.12	0		0
6	.02	0	.01	.02	1.6	6.6	4.0	1.4	.11	0		0
7	.02	.03	.01	.30	1.7	6.1	3.8	1.6	.14	.01		0
8	.02	0	.01	9.7	1.7	5.7	3.5	1.1	.13	0		0
9	.02	0	.01	1.1	1.7	5.5	3.5	1.1	.01	0		0
10	.02	0	0	2.1	1.7	5.1	3.1	.91	0	0		0
11	.02	.03	0	93	1.8	4.8	3.0	.84	0	0		0
12	.02	.03	0	7.2	1.7	4.6	3.0	.86	.01	0		0
13	.07	.03	.02	1.7	8.9	4.4	2.8	.78	.01	0		0
14	.02	.01	.01	30	13	4.5	2.8	.88	.01	0		0
15	.02	.01	.01	69	3.7	4.5	2.4	.66	.01	0		0
16	.06	.01	0	14	12	10	2.9	.68	.01	0		0
17	.18	.01	.13	8.4	4.9	7.8	2.6	.70	.02	0		0
18	.02	.01	.04	6.0	12	4.8	2.2	.56	.02	0		0
19	.14	.10	.01	4.1	12	4.5	2.0	.70	.01	0		0
20	.24	.43	.01	3.5	35	4.0	1.9	.79	.02	0		0
21	.03	.09	.01	3.1	78	3.9	1.9	.68	.02	0		0
22	.02	.06	.01	2.8	46	3.7	1.8	.52	.02	0		0
23	.20	.02	.01	2.5	26	3.5	2.1	.48	.02	0		0
24	.02	.02	.01	2.6	14	3.5	1.7	.45	.01	0		0
25	.02	.02	.01	1.8	11	3.3	1.6	.39	0	0		0
26	.06	.02	.01	2.0	11	4.7	3.0	.73	0	0		0
27	.01	.02	.01	2.0	8.0	38	2.1	.81	.01	0		0
28	0	.01	.01	1.9	16	19	1.6	.41	.03	0		.01
29	0	.01	0	1.7	---	11	2.1	.36	.03	0		.01
30	.03	.01	0	2.9	---	7.8	2.3	.28	.03	0		.01
31	.04	---	0	2.3	---	6.5	---	.34	---	0		---
TOTAL	1.42	.98	.56	275.91	332.4	239.2	87.7	23.88	1.52	.05	0	.03
MEAN	.046	.033	.018	8.90	11.9	7.72	2.92	.77	.051	.002	0	.001
MAX	.24	.43	.16	93	78	38	5.7	1.6	.21	.03	0	.01
MIN	0	0	0	0	1.5	3.3	1.6	.04	0	0	0	0
AC-FT	2.8	1.9	1.1	547	659	474	174	.47	3.0	.10	0	.06

WTR YR 1979 TOTAL 963.65 MEAN 2.64 MAX 93 MIN 0 AC-FT 1910

SAN LORENZO CREEK BASIN

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11180965 CULL CREEK BELOW CULL CREEK DAM NEAR CASTRO VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to April 1979 (seasonal records only) (discontinued).

WATER TEMPERATURES: October 1978 to April 1979.

SEDIMENT RECORDS: October 1978 to April 1979.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1978 to April 1979.

SEDIMENT RECORDS: October 1978 to April 1979.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean 256 mg/L February 21; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE: Maximum daily, 71 tons (64 metric tons) January 11; minimum daily, 0 ton (0 metric ton) many days).

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO APRIL 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	13.0	5.0	---	---	---					
2		---	10.0	---	---	---	---					
3		---	---	---	---	11.5	---					
4		---	---	8.0	---	---	---					
5		---	8.0	---	---	---	---					
6		---	---	---	---	---	---					
7		19.5	6.0	9.5	---	---	---					
8		---	---	9.0	---	---	---					
9		---	---	9.0	---	---	---					
10		---	---	9.0	---	---	---					
11		---	7.0	10.5	---	---	---					
12		---	---	---	---	---	---					
13		---	---	10.0	9.5	---	---					
14		---	---	10.0	---	---	---					
15		---	---	---	10.0	---	---					
16		---	---	9.5	10.0	---	---					
17		---	10.0	9.5	---	---	---					
18		---	---	---	9.0	---	---					
19		---	---	9.0	---	---	---					
20		---	---	---	8.5	---	---					
21		---	---	---	9.0	---	---					
22		---	6.0	---	9.0	---	---					
23		---	---	---	9.5	---	17.0					
24		---	---	9.0	10.5	---	---					
25		---	5.0	---	---	---	---					
26		---	---	---	10.5	---	---					
27		9.0	---	---	10.5	11.0	---					
28		---	---	---	10.0	---	---					
29		---	---	---	---	---	---					
30		---	---	7.5	---	---	---					
31		---	---	---	---	---	---					
MEAN		14.5	8.0	9.0	9.5	11.5	17.0					
WTR YR 1979	MEAN		9.5	MAX	19.5	MIN	5.0					

11180965 CULL CREEK BELOW CULL CREEK DAM NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), PERIOD OCTOBER 1978 TO APRIL 1979

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	.02	15	0	0	0	0	.16	50	.04
2	.02	15	0	0	0	0	.02	27	0
3	.02	15	0	0	0	0	.01	25	0
4	.02	15	0	0	0	0	.01	24	0
5	.02	15	0	0	0	0	.01	60	0
6	.02	15	0	0	0	0	.01	60	0
7	.02	15	0	.03	20	0	.01	62	0
8	.02	15	0	0	0	0	.01	50	0
9	.02	15	0	0	0	0	.01	40	0
10	.02	15	0	0	0	0	0	0	0
11	.02	15	0	.03	20	0	0	0	0
12	.02	15	0	.03	30	0	0	0	0
13	.07	30	.01	.03	25	0	.02	50	0
14	.02	25	0	.01	22	0	.01	40	0
15	.02	20	0	.01	20	0	.01	30	0
16	.06	35	.01	.01	19	0	0	0	0
17	.18	40	.02	.01	18	0	.13	92	.06
18	.02	20	0	.01	17	0	.04	48	.01
19	.14	35	.01	.10	35	.01	.01	35	0
20	.24	40	.03	.43	80	.09	.01	32	0
21	.03	25	0	.09	60	.01	.01	29	0
22	.02	20	0	.06	50	.01	.01	27	0
23	.20	40	.02	.02	40	0	.01	24	0
24	.02	25	0	.02	33	0	.01	22	0
25	.02	20	0	.02	29	0	.01	19	0
26	.06	25	0	.02	27	0	.01	18	0
27	.01	15	0	.02	26	0	.01	18	0
28	0	0	0	.01	25	0	.01	18	0
29	0	0	0	.01	24	0	0	0	0
30	.03	20	0	.01	23	0	0	0	0
31	.04	20	0	---	---	---	0	0	0
TOTAL	1.42	---	.10	.98	---	.12	.56	---	.11
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	0	0	0	2.0	15	.08	19	104	6.1
2	0	0	0	2.3	15	.09	9.5	70	1.8
3	.15	76	.07	1.7	15	.07	8.3	54	1.2
4	.02	111	.01	1.5	14	.06	7.6	43	.88
5	.02	80	0	1.5	14	.06	7.0	37	.70
6	.02	50	0	1.6	13	.06	6.6	32	.57
7	.30	40	.03	1.7	13	.06	6.1	28	.46
8	9.7	93	5.5	1.7	12	.06	5.7	25	.38
9	1.1	37	.13	1.7	12	.06	5.5	23	.34
10	2.1	45	1.2	1.7	12	.06	5.1	22	.30
11	93	247	71	1.8	11	.05	4.8	21	.27
12	7.2	134	3.0	1.7	10	.05	4.6	20	.25
13	1.7	82	.38	8.9	41	1.2	4.4	19	.23
14	30	122	14	13	64	2.8	4.5	20	.24
15	69	233	49	3.7	33	.33	4.5	33	.43
16	14	160	6.0	12	67	2.5	10	82	2.7
17	8.4	118	2.6	4.9	18	.24	7.8	61	1.4
18	6.0	82	1.3	12	56	2.3	4.8	41	.53
19	4.1	73	.81	12	58	2.0	4.5	34	.41
20	3.5	65	.61	35	125	22	4.0	30	.32
21	3.1	57	.48	78	256	64	3.9	26	.27
22	2.8	50	.38	46	193	30	3.7	23	.23
23	2.5	48	.32	26	213	15	3.5	20	.19
24	2.6	60	.42	14	150	5.7	3.5	18	.17
25	1.8	50	.24	11	97	2.9	3.3	16	.14
26	2.0	40	.22	11	93	3.0	4.7	49	.74
27	2.0	30	.16	8.0	62	1.3	38	149	18
28	1.9	20	.10	16	89	6.7	19	77	4.3
29	1.7	15	.07	---	---	---	11	58	1.7
30	2.9	30	.26	---	---	---	7.8	42	.88
31	2.3	17	.11	---	---	---	6.5	33	.58
TOTAL	275.91	---	158.40	332.4	---	162.73	239.2	---	46.71

11180965 CULL CREEK BELOW CULL CREEK DAM NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), PERIOD OCTOBER 1978 TO APRIL 1979

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	5.7	29	.45						
2	5.2	27	.38						
3	4.7	25	.32						
4	4.3	24	.28						
5	4.1	23	.25						
6	4.0	22	.24						
7	3.8	21	.22						
8	3.5	20	.19						
9	3.5	19	.18						
10	3.1	18	.15						
11	3.0	17	.14						
12	3.0	16	.13						
13	2.8	15	.11						
14	2.8	14	.11						
15	2.4	14	.09						
16	2.9	34	.30						
17	2.6	21	.15						
18	2.2	17	.10						
19	2.0	14	.08						
20	1.9	12	.06						
21	1.9	10	.05						
22	1.8	9	.04						
23	2.1	24	.14						
24	1.7	9	.04						
25	1.6	8	.03						
26	3.0	30	.27						
27	2.1	14	.08						
28	1.6	11	.05						
29	2.1	10	.06						
30	2.3	10	.06						
31	---	---	---						
TOTAL	87.7	---	4.75						
YEAR	938.17		372.92						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, PERIOD OCTOBER 1978 TO APRIL 1979

DATE	TIME	TEMPERATURE, WATER (DEG C)	STREAM-FLOW, INSTANTANEOUS (CFS)	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
JAN 08...	1225	9.0	22	694	41	36	44
11...	1340	10.5	206	366	204	66	75
FEB 22...	1445	9.0	114	255	78	83	92
MAR 27...	1530	11.0	42	179	20	89	98
DATE	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
JAN 08...	58	76	92	98	100	--	--
11...	80	85	88	92	96	100	--
FEB 22...	95	96	97	97	98	99	100
MAR 27...	99	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 (0.8 km) downstream from Crow Creek, and 0.9 mi (1.4 km) downstream from Don Castro Dam.

DRAINAGE AREA.--37.5 mi² (97.1 km²).

PERIOD OF RECORD.--October 1939 to September 1940, October 1946 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

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 (40.587 m) National Geodetic Vertical Datum of 1929. January to September 1940, nonrecording gage on bridge at present site and datum.

REMARKS.--Records good. Flow partly regulated since October 1962 by Cull Creek Reservoir, capacity, 310 acre-ft (382,000 m³) and since January 1965 by Don Castro Reservoir, 0.9 mi (1.4 km) upstream, capacity, 380 acre-ft (469,000 m³). A few very small diversions above station for irrigation.

AVERAGE DISCHARGE.--34 years, 14.4 ft³/s (0.408 m³/s), 10,430 acre-ft/yr (12.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,460 ft³/s (211 m³/s) Oct. 13, 1962, gage height, 19.73 ft (6.014 m) from floodmarks, from rating curve extended above 2,700 ft³/s (76.5 m³/s) on basis of slope-area measurement of maximum flow; maximum gage height, 20.82 ft (6.346 m), from floodmarks, Dec. 22, 1955; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft³/s (9.9 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 11	1400	787	22.3	7.80	2.377	Feb. 21	0545	1050	29.7	8.43	2.569
Jan. 15	0130	*1100	31.2	8.57	2.612	Feb. 28	2330	382	10.8	6.44	1.963

Minimum daily discharge, 0.04 ft³/s (0.001 m³/s), Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.11	3.2	1.3	13	107	21	6.5	2.7	1.1	.38	2.5
2	.24	.10	.21	1.4	12	54	19	6.2	2.7	.91	.11	.53
3	.05	.11	.11	3.0	9.7	47	18	5.5	2.4	.97	.09	.96
4	.04	.14	.10	4.0	8.8	42	17	2.4	2.6	1.5	.54	.68
5	.13	.19	.45	4.2	9.1	35	16	7.2	2.9	1.6	.19	.27
6	.34	.18	.52	3.5	8.8	29	17	6.9	2.2	1.5	.38	.51
7	.07	.16	.37	6.8	9.1	26	16	11	1.9	1.2	.18	.86
8	.07	.13	.35	35	9.0	23	15	5.8	1.6	1.2	.43	1.2
9	.08	.13	.41	3.9	8.1	22	15	5.2	1.5	.94	.19	.31
10	.20	.13	.66	3.7	8.2	19	14	4.7	1.6	.78	.14	.50
11	.07	.15	.98	266	8.8	18	14	4.4	1.5	.79	.59	.05
12	.06	1.6	1.2	14	8.2	17	13	4.2	2.5	.77	.46	.42
13	.09	3.1	1.2	1.7	35	16	12	4.0	2.5	.64	3.1	.49
14	.08	1.9	1.1	120	65	15	12	4.1	2.6	.51	.80	.78
15	.07	.97	.64	381	22	16	11	4.1	1.5	.47	.56	.35
16	.13	.80	1.2	65	60	32	12	4.4	1.7	.49	.31	.06
17	.31	1.0	8.3	35	28	22	13	4.3	3.2	1.0	.99	.88
18	.05	1.1	5.7	27	58	14	11	4.0	1.7	2.7	1.5	.85
19	.17	4.2	1.5	17	40	13	10	4.1	2.0	1.5	.28	.35
20	.32	16	.57	14	168	11	10	4.5	3.1	.71	1.2	.39
21	.06	4.9	.45	12	409	10	10	4.3	2.5	2.1	1.2	.83
22	.08	.92	.63	11	342	10	8.7	4.0	3.2	2.4	.53	.92
23	.26	.17	.69	10	180	9.1	10	3.9	3.6	1.2	.45	.90
24	.06	.10	1.7	11	103	8.7	8.6	3.9	2.3	1.2	.31	.60
25	.07	.08	1.8	9.6	74	8.3	8.1	3.5	3.0	.31	.68	.72
26	.08	.08	2.1	14	65	13	15	3.9	3.7	.36	.93	.50
27	.07	.09	2.8	18	43	109	8.6	4.0	2.2	1.0	.69	.39
28	.07	.08	3.1	15	87	72	6.8	3.1	1.5	1.1	.71	.95
29	.09	.08	2.8	13	---	38	7.0	2.8	1.6	.89	.21	1.0
30	.11	.09	2.4	16	---	26	7.2	2.8	1.6	.28	1.0	.53
31	.13	---	2.2	15	---	22	---	2.9	---	.25	2.1	---
TOTAL	3.70	38.79	49.44	1152.1	1891.8	904.1	376.0	142.6	69.6	32.37	21.23	20.28
MEAN	.12	1.29	1.59	37.2	67.6	29.2	12.5	4.60	2.32	1.04	.68	.68
MAX	.34	16	8.3	381	409	109	21	11	3.7	2.7	3.1	2.5
MIN	.04	.08	.10	1.3	8.1	8.3	6.8	2.4	1.5	.25	.09	.05
AC-FT	7.3	77	98	2290	3750	1790	746	283	138	64	42	40

CAL YR 1978 TOTAL 7522.68 MEAN 20.6 MAX 628 MIN .04 AC-FT 14920
WTR YR 1979 TOTAL 4702.01 MEAN 12.9 MAX 409 MIN .04 AC-FT 9330

11181004 CASTRO VALLEY CREEK AT CASTRO VALLEY, CA

LOCATION.--Lat 37°42'42", long 122°03'45", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank, 50 ft (15 m) upstream from Seaview Avenue and 1.6 mi (2.6 km) northeast of Castro Valley Post Office.

DRAINAGE AREA.--0.98 mi² (2.54 km²).

PERIOD OF RECORD.--October 1978 to September 1979.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 310 ft (94.5 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record, Oct. 1 to Nov. 14, Feb. 20-22, Mar. 19-27, and Sept. 14-19, which are fair. No regulation or diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft³/s (0.74 m³/s) Feb. 22 (1210 hrs), gage height, 1.95 ft (0.594 m), no other peak above base of 20 ft³/s (0.6 m³/s); minimum daily, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.01	.01	.07	1.1	.56	.12	.03	.03	.01	.02
2		0	.01	.01	.07	.54	.52	.09	.03	.03	.01	.02
3		0	.01	.01	.07	.48	.48	.08	.03	.04	.01	.02
4		0	.01	.01	.07	.43	.43	.08	.03	.06	.01	.02
5		0	.01	.01	.07	.38	.39	.09	.03	.06	.02	.02
6		0	.01	.01	.09	.34	.37	.08	.03	.07	.01	.02
7		0	.01	.01	.10	.32	.34	.09	.03	.07	.01	.01
8		0	.01	.32	.12	.32	.31	.07	.03	.07	.02	.01
9		0	.01	.03	.11	.28	.39	.07	.03	.08	0	.01
10		0	.01	.16	.13	.31	.41	.06	.04	.07	0	.01
11		0	.01	1.4	.13	.37	.22	.05	.04	.07	0	.02
12		.07	.01	.08	.14	.25	.20	.06	.04	.06	0	.02
13		.02	.01	.10	.28	.23	.22	.06	.04	.04	0	.01
14		.01	.01	1.5	.27	.23	.19	.04	.04	.01	0	.01
15		0	.01	2.3	.10	.24	.18	.04	.05	.01	0	.01
16		0	.01	.26	.34	.40	.19	.04	.05	.01	0	.01
17		0	.01	.19	.13	.36	.17	.04	.05	.01	0	0
18		0	.01	.12	.45	.26	.13	.04	.02	.01	0	0
19		.01	.01	.08	.27	.25	.13	.04	.02	.01	0	0
20		.11	.01	.07	3.5	.24	.13	.03	.02	.01	0	0
21		.01	.01	.07	2.0	.23	.12	.04	.02	.01	0	0
22		.01	.01	.07	7.7	.21	.13	.04	.02	0	0	0
23		.01	.01	.07	2.2	.20	.14	.04	.03	0	0	0
24		.01	.01	.07	1.2	.20	.12	.04	.03	0	0	0
25		.01	.01	.07	.84	.20	.12	.04	.03	0	.01	0
26		.01	.01	.07	.55	1.5	.19	.04	.03	0	.01	0
27		.01	.01	.07	.44	4.5	.12	.03	.03	.01	.01	0
28		.01	.01	.07	1.1	2.2	.10	.03	.03	0	.01	0
29		.01	.01	.06	---	1.2	.11	.03	.03	.01	.01	0
30		.01	.01	.07	---	.75	.10	.03	.03	.01	.01	0
31		---	.01	.07	---	.63	---	.04	---	.01	.01	---
TOTAL	0	.32	.31	7.44	22.54	19.15	7.21	1.67	.96	.87	.17	.24
MEAN	0	.011	.010	.24	.81	.62	.24	.054	.032	.028	.006	.008
MAX	0	.11	.01	2.3	7.7	4.5	.56	.12	.05	.08	.02	.02
MIN	0	0	.01	.01	.07	.20	.10	.03	.02	0	0	0
AC-FT	0	.6	.6	15	45	38	14	3.3	1.9	1.7	.3	.5

WTR YR 1979 TOTAL 60.88 MEAN .17 MAX 7.7 MIN 0 AC-FT 121

SAN LORENZO CREEK BASIN

11181006 CASTRO VALLEY CREEK AT KNOX STREET, AT CASTRO VALLEY, CA

LOCATION.--Lat 37°40'56", long 122°04'44", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank at Knox Street, 1.0 mi (1.6 km) southeast of Castro Valley Post Office.

DRAINAGE AREA.--2.20 mi² (5.70 km²).

PERIOD OF RECORD.--October 1978 to September 1979.

GAGE.--Water-storage recorder and concrete control. Altitude of gage is 130 ft (39.6 m), from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.5 m³/s) and maxi457 (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 8	1315	*502	14.2	5.31	1.618
Feb. 22	1200	400	11.3	4.84	1.475

Minimum daily discharge, 0.01 ft³/s (<0.001 m³/s) many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	3.0	.04	.08	2.0	.63	.17	.06	.02	.01	.03
2	.01	.01	.04	.05	.08	.98	.52	.15	.04	.02	.02	.04
3	.01	.01	.02	.51	.07	.87	.42	.13	.04	.02	.02	.05
4	.01	.01	.03	.09	.07	.62	.38	.13	.03	.02	.01	.04
5	.01	.01	.03	.17	.07	.53	.35	.48	.03	.01	.01	.03
6	.01	.01	.02	.06	.08	.46	.36	.26	.03	.01	.02	.02
7	.01	.02	.03	2.5	.07	.42	.32	1.4	.03	.01	.02	.02
8	.01	.03	.02	27	.08	.38	.30	.23	.03	.02	.02	.01
9	.01	.01	.01	3.1	.07	.32	.34	.14	.03	.03	.01	.01
10	.01	.01	.01	8.7	.07	.30	.27	.11	.03	.02	.02	.02
11	.01	.01	.02	41	.09	.28	.26	.10	.03	.01	.02	.01
12	.01	.01	.06	.33	.08	.26	.10	.03	.02	.02	.03	.02
13	.01	.60	.09	.05	12	.24	.22	.11	.02	.03	.03	.02
14	.01	.08	.08	28	2.6	.21	.22	.10	.02	.02	.05	.02
15	.02	.02	.20	13	.46	.65	.21	.09	.02	.02	.01	.03
16	.01	.01	.13	1.3	7.5	4.6	.55	.08	.02	.02	.01	.02
17	.01	.01	3.1	2.6	.45	.55	.44	.10	.02	.02	.01	.02
18	.01	.02	.86	.83	6.0	.35	.17	.08	.03	.02	.01	.01
19	.01	1.8	.16	.37	1.9	.34	.17	.09	.03	.02	.01	.02
20	.01	11	.03	.27	17	.32	.17	.08	.03	.01	.01	.02
21	.01	1.5	.03	.30	15	.26	.18	.07	.03	.01	.01	.02
22	.01	.55	.03	.47	26	.21	.49	.05	.04	.01	.01	.02
23	.06	.03	.04	.48	5.8	.19	.65	.04	.02	.01	.01	.02
24	.10	.01	.04	.15	3.2	.20	.09	.06	.02	.01	.02	.01
25	.01	.01	.04	.19	2.8	.20	.09	.05	.02	.02	.02	.02
26	.01	.02	.04	.09	2.0	3.3	3.2	.04	.02	.01	.03	.01
27	.01	.01	.04	.08	1.0	17	.17	.04	.03	.01	.03	.02
28	.01	.01	.04	.09	6.0	4.3	.15	.04	.02	.01	.02	.02
29	.01	.01	.04	.10	---	2.2	.18	.03	.02	.01	.03	.02
30	.01	.01	.04	.40	---	1.1	.17	.05	.02	.02	.03	.03
31	.01	---	.04	.11	---	.77	---	.06	---	.01	.04	---
TOTAL	.46	15.85	8.36	132.43	110.62	44.41	11.89	4.66	.84	.50	.60	.65
MEAN	.015	.53	.27	4.27	3.95	1.43	.40	.15	.028	.016	.019	.022
MAX	.10	11	3.1	41	26	17	3.2	1.4	.06	.03	.05	.05
MIN	.01	.01	.01	.04	.07	.19	.09	.03	.02	.01	.01	.01
AC-FT	.9	31	17	263	219	88	24	9.2	1.7	1.0	1.2	1.3

WTR YR 1979 TOTAL 331.27 MEAN .91 MAX 41 MIN .01 AC-FT 657

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 (213 m) upstream from mouth, and 700 ft (213 m) downstream from small left-bank tributary.

DRAINAGE AREA.--5.51 mi² (14.27 km²).

PERIOD OF RECORD.--October 1971 to current year (seasonal records only, water years 1975-77).

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 100 ft (30 m), from topographic map. Recording rain gages at Sydney School, altitude, 400 ft (122 m) at site 2.2 mi (3.5 km) northwest of gaging station and at Proctor School, altitude, 420 ft (128 m) at site 2.6 mi (4.2 km) north of gaging station.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 670 ft³/s (19.0 m³/s) Jan. 8, 1979, gage height, 7.20 ft (2.195 m), from rating curve extended above 53 ft³/s (1.50 m³/s) on basis of slope-area measurements at gage heights 3.92 ft (1.195 m) and 6.02 ft (1.835 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14 m³/s), revised, and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 8	1320	*670	19.0	7.20	2.195	Feb. 22	1155	614	17.4	6.64	2.024
Jan. 11	0545	522	14.8	5.79	1.765	Mar. 27	0500	526	14.9	5.82	1.774
Jan. 14	2245	543	15.4	5.97	1.820						

Minimum daily discharge, 0.10 ft³/s (0.003 m³/s) Nov. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.13	12	.14	.82	5.6	1.6	.47	.34	.30	.19	.16
2	.14	.12	.52	.13	.25	2.5	1.4	.77	.35	.28	.22	.18
3	.12	.14	.20	2.0	.21	2.4	1.2	.42	.36	.28	.51	.18
4	.35	.13	.35	.47	.22	1.9	1.1	.38	.32	.23	.16	.28
5	.13	.15	.36	.62	.25	1.6	.99	1.1	.35	.53	.20	.19
6	.16	.14	.30	.18	.23	1.4	1.1	.43	.44	.24	.18	.18
7	.14	.25	.17	7.8	.32	1.3	.90	3.3	.33	.23	.21	.48
8	.15	.60	.17	71	.72	1.2	.82	.56	.35	.26	.18	.16
9	.14	.13	.14	9.1	.18	1.1	.88	.39	.32	.27	.55	.15
10	.12	.12	.16	38	.18	1.0	.72	.38	.33	.26	.19	.15
11	.16	.10	.35	163	.20	.99	.82	.38	.40	.23	.18	.16
12	.11	2.9	.15	2.3	.21	.94	.75	.46	.33	.26	.20	.19
13	.16	.99	.17	.92	59	.88	.65	.47	.31	.64	.15	.45
14	.13	.20	.14	111	8.4	.83	.69	1.1	.63	.44	.19	.17
15	.15	.14	.24	52	.85	2.0	.62	1.0	.33	.25	.18	.18
16	.16	.21	.15	1.9	45	19	1.6	.36	.30	.22	.51	.16
17	.42	.22	11	8.9	1.6	1.9	1.1	.70	.32	.26	.23	.17
18	.14	.13	1.8	1.8	42	1.4	.54	.39	.46	.21	.19	.20
19	.11	9.2	.29	.93	9.1	1.1	.49	.39	.33	.53	.23	.18
20	.16	50	.30	.65	84	1.2	.51	.37	.31	.23	.25	.16
21	.15	7.6	.18	.76	76	.88	.51	.34	.61	.20	.23	.41
22	.17	1.6	.20	.85	72	.79	1.2	.37	.35	.22	.17	.17
23	.69	.28	.18	.67	8.9	.74	2.3	.33	.32	.21	.52	.14
24	1.3	.22	.17	.45	3.5	.79	.59	.38	.31	.24	.20	.21
25	.17	.22	.29	.44	4.1	.98	.47	.36	.43	.21	.17	.14
26	.16	.24	.17	.30	5.2	12	9.9	.36	.40	.54	.19	.17
27	.15	.20	.16	.29	2.0	68	.65	.35	.34	.19	.21	.38
28	.14	.16	.16	.31	29	11	.54	.34	.65	.20	.25	.14
29	.18	.16	.16	.59	---	3.6	.53	.33	.30	.45	.20	.14
30	.13	.14	.44	1.0	---	2.4	.48	.36	.26	.20	.53	.14
31	.13	---	.15	.41	---	1.9	.53	.69	---	.20	.17	---
TOTAL	6.66	76.82	31.22	478.91	454.44	153.32	35.65	18.03	11.18	9.01	7.74	6.17
MEAN	.21	2.56	1.01	15.4	16.2	4.95	1.19	.58	.37	.29	.25	.21
MAX	1.3	50	12	163	84	68	9.9	3.3	.65	.64	.55	.48
MIN	.11	.10	.14	.13	.18	.74	.47	.33	.26	.19	.15	.14
AC-FT	13	152	62	950	901	304	71	36	22	18	15	12
(†)	0	2.23	.81	6.44	4.94	2.77	.65	---	---	---	---	---
(‡)	0	2.16	.81	6.39	5.07	2.69	.53	---	---	---	---	---

CAL YR 1978 TOTAL 1476.69 MEAN 4.05 MAX 88 MIN .09 AC-FT 2930
WTR YR 1979 TOTAL 1289.15 MEAN 3.53 MAX 163 MIN .10 AC-FT 2560

† Precipitation, in inches, at Proctor School Raingage at Castro Valley.

‡ Precipitation, in inches, at Sydney School Raingage at Castro Valley.

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 (5.8 km) upstream from mouth.

DRAINAGE AREA.--7.79 mi² (20.18 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 65.56 ft (19.983 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Minor storage in Lake Anza and Jewel Lake 5 mi (8 km) upstream. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft³/s (29.2 m³/s) Feb. 22, 1979, gage-height, 7.61 ft (2.320 m); no flow Aug. 31 and Sept. 6, 7, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,030 ft³/s (29.2 m³/s) Feb. 22 (1200 hrs), gage height, 7.61 ft (2.320 m), no other peak above base of 150 ft³/s (4.2 m³/s); no flow Aug. 31, Sept. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.07	.19	.09	.93	19	3.3	.98	.65	.11	.10	.01
2	.09	.08	.15	.10	.65	8.3	2.9	.84	.59	.07	.09	.02
3	.09	.08	.23	.32	.57	7.1	2.8	.70	.50	.10	.11	.01
4	.13	.08	.20	.12	.58	6.4	3.0	.65	.48	.10	.08	.01
5	.10	.08	.18	.11	.56	5.4	3.6	1.2	.51	.13	.06	.01
6	.13	.07	.20	.07	.51	4.6	4.6	1.2	.34	.07	.04	0
7	.12	.07	.20	1.3	.54	4.0	2.7	.75	.27	.08	.05	0
8	.16	.07	.21	29	.53	3.7	2.2	.64	.21	.07	.03	.02
9	.15	.08	.21	47	.48	3.1	2.1	.51	.16	.10	.09	.01
10	.14	.07	.30	32	.48	2.8	2.1	.46	.22	.19	.04	.01
11	.11	.09	.24	44	.52	2.9	2.0	.41	.17	.06	.05	.03
12	.15	.11	.21	5.3	.49	2.7	2.1	.38	.23	.07	.05	.03
13	.15	.10	.22	1.5	38	2.1	2.1	.44	.16	.08	.04	.04
14	.14	.08	.23	14	47	2.1	2.3	.36	.30	.07	.05	.04
15	.16	.09	.22	45	13	2.7	2.0	.36	.25	.12	.05	.02
16	.18	.09	.22	10	15	9.2	2.0	.41	.20	.09	.04	.02
17	.19	.08	2.8	4.9	9.1	4.7	2.3	.54	.21	.08	.04	.06
18	.17	.08	2.0	5.1	20	3.3	2.0	.40	.19	.06	.03	.17
19	.17	.38	.38	2.2	15	3.3	1.8	.47	.14	.05	.06	.19
20	.20	1.5	.22	1.5	28	2.6	1.8	.53	.12	.04	.06	.15
21	.20	.72	.18	1.3	39	2.2	1.6	.53	.10	.15	.05	.16
22	.25	1.8	.14	1.1	131	2.7	2.0	.60	.08	.07	.04	.13
23	.18	.19	.13	.90	27	2.7	4.8	.57	.14	.04	.06	.20
24	.16	.10	.12	.87	12	2.3	2.3	.63	.21	.09	.04	.14
25	.15	.08	.11	.81	9.2	2.6	1.4	.57	.16	.08	.03	.18
26	.12	.08	.11	.65	11	3.8	2.3	.61	.10	.10	.02	.22
27	.09	.08	.09	.57	6.4	24	2.2	.65	.12	.11	.02	.19
28	.09	.08	.10	.65	15	15	1.3	.75	.10	.07	.03	.28
29	.08	.12	.10	.54	---	6.8	1.1	.76	.06	.09	.02	.24
30	.08	.13	.11	2.7	---	4.6	1.1	.76	.02	.10	.01	.28
31	.07	---	.18	1.6	---	3.7	---	.60	---	.14	0	---
TOTAL	4.35	6.73	10.18	255.30	442.54	170.4	69.8	19.26	6.99	2.78	1.48	2.87
MEAN	.14	.22	.33	8.24	15.8	5.50	2.33	.62	.23	.090	.048	.096
MAX	.25	1.8	2.8	47	131	24	4.8	1.2	.65	.19	.11	.28
MIN	.07	.07	.09	.07	.48	2.1	1.1	.36	.02	.04	0	0
AC-FT	8.6	13	20	506	878	338	138	38	14	5.5	2.9	5.7
CAL YR 1978 TOTAL	2780.36			MEAN 7.62	MAX 177	MIN .07	AC-FT 5510					
WTR YR 1979 TOTAL	992.68			MEAN 2.72	MAX 131	MIN 0	AC-FT 1970					

11181390 WILDCAT CREEK AT VALE ROAD AT RICHMOND, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1977 to current year.
 WATER TEMPERATURES: Water year 1977 to current year.
 SEDIMENT RECORDS: Water year 1977 to current year.

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: October 1976 to current year.
 SEDIMENT RECORDS: October 1976 to current year.

REMARKS.--Total sediment discharge values are reported for days having mean discharge values of 20 ft³/s (0.57 m³/s) or less except those for Feb. 18, 28, and Mar. 1, when values are reported as suspended sediment discharge.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 5,990 mg/L Mar. 5, 1978; minimum daily mean, no flow Aug. 31, Sept. 6-7, 1979.
 SEDIMENT DISCHARGE: Maximum daily, 6,610 tons (6,000 metric tons) Feb. 22, 1979; minimum daily, 0 ton (0 metric ton) many days in 1976-79.

EXTREMES FOR CURRENT YEAR.--
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 5,520 mg/L Feb. 22; minimum daily mean, no flow Aug. 31, Sept. 6-7.
 SEDIMENT DISCHARGE: Maximum daily, 6,610 tons (6,000 metric tons) Feb. 22; minimum daily, 0 ton (0 metric ton) many days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	18.5	19.0	14.0	8.5	---	---	---	20.0	---	23.5	---
2	---	---	---	---	10.0	9.0	12.0	16.0	---	18.5	---	---
3	---	18.5	---	17.0	---	---	---	---	---	---	20.0	---
4	---	---	20.0	---	---	---	14.0	17.0	18.0	19.5	---	---
5	---	---	---	16.5	11.5	12.0	---	15.0	---	---	---	24.0
6	20.5	22.5	16.5	---	---	---	14.0	---	22.5	17.5	19.0	---
7	---	---	---	14.0	13.0	14.5	---	15.0	---	---	---	23.0
8	---	28.0	17.0	---	---	---	---	---	22.5	---	18.0	---
9	---	---	20.0	---	14.0	13.0	15.5	17.0	---	21.0	---	---
10	---	18.5	---	11.5	---	---	---	---	---	---	---	---
11	---	---	19.0	11.5	---	---	14.5	18.5	20.0	19.0	---	24.0
12	---	17.0	---	11.5	15.0	14.0	---	---	---	---	---	---
13	---	19.0	19.0	---	---	---	14.5	---	17.0	23.0	21.0	---
14	---	---	---	9.0	---	13.0	---	20.0	---	---	---	23.0
15	---	20.5	20.0	9.0	---	13.5	---	---	19.0	---	20.0	---
16	---	---	---	---	10.0	11.0	13.5	15.0	---	19.0	---	---
17	---	20.0	10.5	10.0	---	---	---	---	---	---	21.0	23.0
18	21.5	---	10.0	---	10.0	---	13.5	17.0	19.0	19.0	---	---
19	19.5	16.0	---	---	10.0	13.0	---	---	22.5	---	---	23.0
20	---	18.0	10.0	---	10.5	---	12.5	---	18.0	21.0	21.0	22.0
21	---	---	---	---	10.0	13.0	---	17.0	---	19.0	---	23.0
22	---	14.0	14.0	11.0	---	---	17.0	---	20.0	---	21.5	---
23	---	---	---	---	10.0	13.5	13.0	19.0	---	19.5	---	---
24	---	15.0	---	10.5	---	---	14.0	---	---	---	22.0	24.0
25	21.0	---	16.0	---	---	---	15.0	20.0	15.0	21.5	---	---
26	---	---	---	9.0	10.5	12.0	15.0	---	---	---	---	23.0
27	19.5	19.0	14.0	---	---	11.5	17.0	---	17.0	20.0	21.5	---
28	---	19.0	---	---	10.0	11.0	---	17.0	---	---	---	---
29	---	21.5	17.0	9.0	---	10.5	---	---	---	---	22.0	---
30	21.0	---	---	7.0	---	13.0	14.0	20.0	---	21.5	---	---
31	---	---	---	8.0	---	---	---	---	---	---	23.0	---
MEAN	20.5	19.0	16.0	11.0	11.0	12.5	14.5	17.5	19.5	20.0	21.0	23.0
WTR YR 1979	MEAN	16.5	MAX	28.0	MIN	7.0						

11181390 WILDCAT CREEK AT VALE ROAD AT RICHMOND, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	.15	3		.07	1	0	.19	4	0
2	.09	3		.08	1	0	.15	4	0
3	.09	3		.08	3	0	.23	3	0
4	.13	3		.08	5	0	.20	3	0
5	.10	3		.08	7	0	.18	3	0
6	.13	4		.07	10	0	.20	4	0
7	.12	4		.07	6	0	.20	5	0
8	.16	5		.07	4	0	.21	6	0
9	.15	5		.08	3	0	.21	8	0
10	.14	5		.07	3	0	.30	12	.01
11	.11	4		.09	2	0	.24	20	.01
12	.15	5		.11	3	0	.21	16	.01
13	.15	5		.10	2	0	.22	14	.01
14	.14	5		.08	1	0	.23	10	.01
15	.16	5		.09	1	0	.22	8	0
16	.18	6		.09	3	0	.22	12	.01
17	.19	8		.08	4	0	2.8	163	4.9
18	.17	10		.08	4	0	2.0	91	1.5
19	.17	8		.38	15	.02	.38	8	.01
20	.20	8		1.5	10	.04	.22	6	0
21	.20	7		.72	18	.03	.18	8	0
22	.25	7		1.8	30	.15	.14	10	0
23	.18	6		.19	15	.01	.13	9	0
24	.16	4		.10	5	0	.12	8	0
25	.15	2		.08	4	0	.11	8	0
26	.12	4		.08	3	0	.11	8	0
27	.09	4		.08	2	0	.09	8	0
28	.09	3		.08	1	0	.10	8	0
29	.08	3		.12	3	0	.10	9	0
30	.08	2		.13	4	0	.11	12	0
31	.07	2		---	---	---	.18	15	.01
TOTAL	4.35	---	0	6.73	---	.25	10.18	---	6.48
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	.09	20	0	.93	10	.03	19	202	13
2	.10	8	0	.65	6	.01	8.3	64	1.4
3	.32	7	0	.57	5	.01	7.1	33	.63
4	.12	8	0	.58	6	.01	6.4	24	.41
5	.11	6	0	.56	6	.01	5.4	18	.26
6	.07	5	0	.51	6	.01	4.6	14	.17
7	1.3	22	.11	.54	6	.01	4.0	10	.11
8	29	550	43	.53	6	.01	3.7	9	.09
9	47	150	19	.48	6	.01	3.1	10	.08
10	32	400	35	.48	6	.01	2.8	11	.08
11	44	1140	180	.52	7	.01	2.9	14	.11
12	5.3	67	1.2	.49	8	.01	2.7	18	.13
13	1.5	32	.13	38	1620	318	2.1	19	.11
14	14	528	27	47	1470	329	2.1	14	.08
15	45	1200	173	13	90	3.2	2.7	18	.18
16	10	103	3.8	15	198	9.8	9.2	170	6.2
17	4.9	80	1.4	9.1	39	.96	4.7	70	.89
18	5.1	26	.36	20	312	22	3.3	72	.66
19	2.2	17	.10	15	78	3.6	3.3	93	.83
20	1.5	13	.05	28	538	70	2.6	72	.51
21	1.3	11	.04	39	727	85	2.2	51	.30
22	1.1	10	.03	131	5520	6610	2.7	39	.28
23	.90	8	.02	27	376	32	2.7	19	.14
24	.87	4	.01	12	152	4.9	2.3	12	.07
25	.81	3	.01	9.2	117	3.1	2.6	9	.06
26	.65	3	.01	11	114	3.6	3.8	28	.69
27	.57	3	0	6.4	60	1.0	24	838	72
28	.65	3	.01	15	205	23	15	304	14
29	.54	5	.01	---	---	---	6.8	47	.94
30	2.7	150	2.9	---	---	---	4.6	17	.21
31	1.6	43	.26	---	---	---	3.7	15	.15
TOTAL	255.30	---	487.45	442.54	---	7519.30	170.4	---	114.77

11181390 WILDCAT CREEK AT VALE ROAD AT RICHMOND, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	3.3	12	.11	.98	8	.02	.65	25	.04	
2	2.9	10	.08	.84	5	.01	.59	20	.03	
3	2.8	8	.06	.70	5	.01	.50	20	.03	
4	3.0	6	.05	.65	7	.01	.48	25	.03	
5	3.6	6	.06	1.2	17	.10	.51	30	.04	
6	4.6	73	1.2	1.2	15	.05	.34	40	.04	
7	2.7	13	.09	.75	7	.01	.27	30	.02	
8	2.2	12	.07	.64	5	.01	.21	25	.01	
9	2.1	10	.06	.51	5	.01	.16	22	.01	
10	2.1	10	.06	.46	5	.01	.22	21	.01	
11	2.0	10	.05	.41	6	.01	.17	20	.01	
12	2.1	9	.05	.38	6	.01	.23	20	.01	
13	2.1	6	.03	.44	5	.01	.16	22	.01	
14	2.3	5	.03	.36	5	0	.30	25	.02	
15	2.0	5	.03	.36	8	.01	.25	35	.02	
16	2.0	5	.03	.41	9	.01	.20	30	.02	
17	2.3	6	.04	.54	9	.01	.21	35	.02	
18	2.0	9	.05	.40	10	.01	.19	20	.01	
19	1.8	10	.05	.47	5	.01	.14	8	0	
20	1.8	5	.02	.53	8	.01	.12	20	.01	
21	1.6	3	.01	.53	14	.02	.10	20	.01	
22	2.0	14	.12	.60	16	.03	.08	35	.01	
23	4.8	32	.54	.57	17	.03	.14	25	.01	
24	2.3	7	.04	.63	16	.03	.21	20	.01	
25	1.4	9	.03	.57	17	.03	.16	24	.01	
26	2.3	10	.05	.61	12	.02	.10	30	.01	
27	2.2	6	.04	.65	9	.02	.12	35	.01	
28	1.3	6	.02	.75	6	.01	.10	30	.01	
29	1.1	6	.02	.76	8	.02	.06	25	0	
30	1.1	9	.03	.76	11	.02	.02	22	0	
31	---	---	---	.60	15	.02	---	---	---	
TOTAL	69.8	---	3.12	19.26	---	.58	6.99	---	.47	
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	.11	21	.01	.10	12		.01	10		
2	.07	20	0	.09	6		.02	6		
3	.10	17	0	.11	3		.01	3		
4	.10	15	0	.08	3		.01	2		
5	.13	7	0	.06	2		.01	1		
6	.07	4	0	.04	2		0	0		
7	.08	8	0	.05	7		0	0		
8	.07	10	0	.03	10		.02	1		
9	.10	14	0	.09	10		.01	1		
10	.19	12	.01	.04	8		.01	2		
11	.06	10	0	.05	7		.03	2		
12	.07	9	0	.05	6		.03	2		
13	.08	9	0	.04	5		.04	1		
14	.07	7	0	.05	3		.04	1		
15	.12	6	0	.05	2		.02	1		
16	.09	5	0	.04	4		.02	1		
17	.08	4	0	.04	7		.06	1		
18	.06	3	0	.03	5		.17	1		
19	.05	8	0	.06	3		.19	2		
20	.04	12	0	.06	1		.15	6		
21	.15	33	.01	.05	1		.16	3		
22	.07	4	0	.04	1		.13	2		
23	.04	2	0	.06	3		.20	1		
24	.09	6	0	.04	8		.14	1		
25	.08	8	0	.03	8		.18	1		
26	.10	4	0	.02	8		.22	1		
27	.11	2	0	.02	8		.19	1		
28	.07	3	0	.03	7		.28	1		
29	.09	4	0	.02	6		.24	1		
30	.10	7	0	.01	9		.28	1		
31	.14	9	0	0	0		---	---		
TOTAL	2.78	---	.03	1.48	---	0	2.87	---	0	
YEAR	992.68		8132.45							

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 (15 m) downstream from Santa Fe Railway bridge at San Pablo, and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--1.49 mi² (3.86 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 13.63 ft (4.154 m) Corps of Engineers datum. Prior to Aug. 13, 1965, at site 0.2 mi (0.3 km) upstream at datum 7.74 ft (2.359 m) higher.

REMARKS.--Records fair. Low flow affected by return flow from industrial waste, leakage, and infrequent releases from off-stream North Reservoir.

AVERAGE DISCHARGE.--18 years (water years 1962-79), 1.33 ft³/s (0.038 m³/s), 964 acre-ft/yr (1.19 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 477 ft³/s (13.5 m³/s) Dec. 20, 1969, gage height, 6.95 ft (2.118 m), from rating curve extended above 150 ft³/s (4.25 m³/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.2 m³/s) and maximum (*) from rating curve extended above 150 ft³/s (4.25 m³/s):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 8	1215	208	5.89	5.03	1.533
Feb. 22	1000	*314	8.89	5.87	1.789

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.13	0	.38	1.5	.09	0	.01	.47	0	0
2		0	0	0	.18	.83	.07	.01	.01	.47	.09	0
3		0	0	.35	.16	.68	.06	0	.02	.04	.09	0
4		0	0	.08	.15	.42	.06	.01	.04	.02	.03	0
5		0	0	0	.17	.36	.06	1.4	.04	.02	.05	0
6		0	0	0	.14	.30	2.5	1.6	.01	.08	.02	0
7		0	0	2.2	.13	.27	.11	.16	0	.02	.03	0
8		0	0	22	.13	.23	.07	.03	.01	.02	.03	0
9		0	0	3.0	.13	.20	.04	0	.01	.05	.23	0
10		0	0	8.5	.13	.17	.04	0	0	.06	.13	0
11		0	0	25	.13	.15	.04	0	0	.02	.01	0
12		.79	0	.39	.12	.15	.03	0	.01	.07	0	0
13		.02	0	.21	44	.13	.03	.01	.07	.17	.02	0
14		0	0	18	4.3	.11	.03	.01	.03	.02	.04	0
15		0	0	25	.53	.84	.03	0	.04	0	.03	0
16		0	0	.88	2.9	1.6	.04	.01	.04	0	.02	0
17		0	5.2	1.2	.36	.20	.02	.02	.01	.08	0	0
18		0	1.8	.44	8.2	.10	.01	.03	.02	.01	0	0
19		4.1	0	.27	.62	.10	.02	.01	.05	0	0	0
20		4.6	0	.25	18	.08	.02	.02	.01	.03	0	0
21		2.9	0	.24	13	.07	.03	0	0	1.1	.01	.15
22		2.5	0	.22	31	.07	.51	0	0	.05	.02	0
23		.03	0	.21	5.7	.06	1.1	0	0	.06	0	0
24		0	0	.20	2.3	.07	.03	0	0	.06	0	.35
25		0	0	.19	2.4	.07	.03	0	.13	.05	0	.01
26		0	0	.17	1.8	2.6	1.3	0	.04	.01	0	0
27		0	0	.16	.50	6.9	.08	0	.01	.04	.07	0
28		0	0	.16	9.1	1.6	.07	0	0	.02	0	0
29		0	0	.15	---	.24	.02	0	0	.01	0	0
30		0	0	4.7	---	.13	.01	0	.24	.02	0	0
31		---	0	.25	---	.12	---	.03	---	.03	0	---
TOTAL	0	14.94	7.13	114.42	146.66	20.35	6.55	3.35	.85	3.10	.80	.51
MEAN	0	.50	.23	3.69	5.24	.66	.22	.11	.028	.10	.026	.017
MAX	0	4.6	5.2	25	44	6.9	2.5	1.6	.24	1.1	.23	.35
MIN	0	0	0	0	.12	.06	.01	0	0	0	0	0
AC-FT	0	30	14	227	291	40	13	6.6	1.7	6.1	1.6	1.0
CAL YR 1978	TOTAL	548.84	MEAN	1.50	MAX	43	MIN	0	AC-FT	1090		
WTR YR 1979	TOTAL	318.66	MEAN	.87	MAX	44	MIN	0	AC-FT	632		

ARROYO DEL HAMBRE BASIN

11182400 ARROYO DEL HAMBRE AT MARTINEZ, CA

LOCATION.--Lat 38°00'12", long 122°07'44", in Las Juntas Grant, Contra Costa County, Hydrologic Unit 18050001, on right bank 40 ft (12 m) upstream from D Street Bridge in Martinez.

DRAINAGE AREA.--15.1 mi² (39.1 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 48.33 ft (14.731 m) National Geodetic Vertical Datum of 1929 (levels by Contra Costa County Flood Control District).

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

AVERAGE DISCHARGE.--15 years, 3.93 ft³/s (0.111 m³/s), 2,850 acre-ft/yr (3.51 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,960 ft³/s (55.5 m³/s) Jan. 18, 1973, gage height, 10.93 ft (3.331 m), from rating curve extended above 540 ft³/s (15.3 m³/s) on basis of slope-area measurement at gage height 9.62 ft (2.932 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 729 ft³/s (20.6 m³/s) Feb. 22 (1245 hrs), gage height, 5.97 ft (1.820 m), no other peak above base of 150 ft³/s (4.2 m³/s); minimum daily, 0.05 ft³/s (0.001 m³/s) Oct. 3, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.07	.26	.20	.79	7.9	2.5	2.1	.35	.20	.14	.20
2	.06	.07	.15	.21	.66	3.6	2.3	1.6	.33	.18	.14	.20
3	.05	.07	.16	.28	.55	3.5	2.1	1.2	.30	.16	.16	.20
4	.06	.09	.16	.34	.54	3.1	2.1	1.2	.32	.16	.18	.19
5	.06	.09	.16	.35	.54	2.9	2.0	2.3	.32	.16	.19	.19
6	.07	.09	.16	.17	.54	2.7	3.5	2.2	.25	.16	.20	.16
7	.09	.09	.16	1.8	.54	2.6	2.2	2.1	.24	.15	.22	.16
8	.08	.09	.16	12	.54	2.5	2.0	3.2	.32	.12	.20	.16
9	.09	.11	.16	2.0	.52	2.4	1.8	1.7	.21	.13	.22	.16
10	.09	.10	.19	2.9	.95	2.3	1.8	1.3	.20	.16	.26	.14
11	.08	.10	.20	17	1.9	2.3	1.7	1.2	.20	.16	.23	.12
12	.07	.18	.24	1.8	2.1	2.2	1.7	1.1	.21	.14	.16	.11
13	.09	.17	.14	.98	19	2.2	1.6	1.1	.18	.13	.17	.10
14	.06	.09	.14	13	11	2.0	1.6	1.1	.18	.14	.17	.10
15	.07	.10	.14	28	2.0	2.2	1.6	1.1	.22	.12	.16	.09
16	.07	.10	.14	3.6	6.7	4.8	1.5	1.2	.23	.12	.16	.09
17	.09	.09	2.3	3.0	1.9	2.4	1.5	1.1	.23	.13	.15	.09
18	.10	.09	1.4	1.9	6.6	2.2	1.4	1.1	.23	.13	.14	.09
19	.10	.39	.21	1.3	2.7	2.1	1.4	1.0	.23	.15	.14	.09
20	.06	1.3	.17	1.2	10	2.0	1.4	1.1	.23	.18	.16	.08
21	.06	.82	.21	1.9	22	1.9	1.7	1.0	.23	.20	.16	.08
22	.06	1.4	.17	1.9	89	1.9	2.5	1.1	.23	.19	.14	.09
23	.06	.22	.21	1.9	17	1.8	3.9	.97	.22	.17	.18	.09
24	.09	.14	.21	2.1	6.1	1.7	1.7	.91	.20	.20	.19	.09
25	.09	.14	.20	1.7	4.5	1.7	1.5	.80	.20	.30	.14	.11
26	.08	.14	.20	1.6	4.3	2.8	4.0	.76	.20	.16	.14	.10
27	.08	.14	.22	1.7	3.4	25	1.9	.73	.20	.14	.16	.11
28	.08	.14	.23	1.1	10	8.6	1.5	.67	.20	.14	.16	.11
29	.08	.14	.21	.62	---	3.6	1.4	.54	.20	.14	.17	.11
30	.07	.16	.21	1.4	---	2.9	1.4	.46	.20	.14	.19	.11
31	.05	---	.21	.92	---	2.6	---	.36	---	.14	.20	---
TOTAL	2.32	6.92	9.08	108.87	226.37	112.4	59.2	38.30	7.06	4.90	5.38	3.72
MEAN	.075	.23	.29	3.51	8.08	3.63	1.97	1.24	.24	.16	.17	.12
MAX	.10	1.4	2.3	28	89	25	4.0	3.2	.35	.30	.26	.20
MIN	.05	.07	.14	.17	.52	1.7	1.4	.36	.18	.12	.14	.08
AC-FT	4.6	14	18	216	449	223	117	76	14	9.7	11	7.4
CAL YR 1978 TOTAL	2474.26		MEAN 6.78	MAX 187	MIN .05	AC-FT 4910						
WTR YR 1979 TOTAL	584.52		MEAN 1.60	MAX 89	MIN .05	AC-FT 1160						

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 (0.3 km) downstream from Bollinger Creek, and 1.0 mi (1.6 km) southwest of San Ramon.

DRAINAGE AREA.--5.89 mi² (15.26 km²).

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

REVISED RECORDS.--WSP 1445: 1953-54(P).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 530 ft (162 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record, Dec. 23 to Jan. 17, Mar. 12-30, and Aug. 17 to Sept. 19, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--27 years, 2.80 ft³/s (0.079 m³/s), 2,030 acre-ft/yr (2.50 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft³/s (45.3 m³/s) Oct. 13, 1962, gage height, 16.98 ft (5.176 m), from rating curve extended above 90 ft³/s (2.55 m³/s) on basis of indirect measurements of maximum flow through culvert at gage heights 12.09 ft (3.685 m) and 16.98 ft (5.176 m); no flow for parts of most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.8 m³/s) and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 11	unknown	*228	6.46	3.91	1.192	Feb. 21	0345	210	5.95	3.79	1.155
Jan. 15	unknown	176	4.98	unknown							

Minimum daily discharge, no flow Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.05	.25	.13	1.1	11	5.0	2.0	.78	.40	.02	.03
2	.03	.06	.21	.13	1.1	7.1	4.6	1.9	.72	.40	.02	.03
3	.01	.07	.13	.14	.98	6.7	4.4	1.8	.71	.45	.03	.02
4	.01	.08	.13	.19	.98	6.1	4.4	1.8	.71	.45	.04	.02
5	.03	.24	.13	.22	.98	5.5	4.1	2.5	.70	.43	.05	.02
6	.05	.07	.13	.22	.97	5.1	4.1	2.1	.64	.40	.04	.02
7	.07	.05	.10	.25	.89	4.8	3.9	2.7	.61	.41	.03	.02
8	.05	.06	.10	4.1	.89	4.5	3.7	1.9	.54	.39	.03	.02
9	.04	.07	.10	1.4	.89	4.4	3.6	1.7	.52	.35	.03	.02
10	.05	.09	.13	1.3	.89	4.2	3.4	1.6	.50	.34	.03	.02
11	.04	.10	.13	88	.89	4.1	3.4	1.6	.48	.33	.03	.01
12	.03	.17	.17	11	.89	4.1	3.0	1.5	.47	.30	.03	.01
13	.01	.26	.13	4.3	3.9	3.9	3.0	1.5	.50	.25	.07	.01
14	.01	.18	.13	22	7.6	3.8	3.0	1.4	.53	.20	.08	.01
15	.01	.13	.17	68	1.8	3.9	2.8	1.4	.58	.20	.06	.02
16	.05	.13	.17	10	6.0	6.2	2.8	1.4	.59	.19	.06	.02
17	.10	.13	.67	5.2	2.3	5.2	2.6	1.4	.57	.20	.06	.01
18	.07	.16	.65	3.5	6.7	4.3	2.4	1.3	.56	.19	.07	.01
19	.10	.29	.27	2.4	6.8	3.7	2.4	1.2	.53	.17	.05	.01
20	.13	2.3	.18	2.1	25	3.3	2.3	1.2	.49	.16	.05	.03
21	.10	1.1	.17	1.9	79	3.2	2.3	1.2	.49	.21	.04	.01
22	.08	.49	.17	1.7	39	3.2	2.1	1.2	.49	.29	.04	.01
23	.04	.34	.17	1.6	24	3.1	2.1	1.2	.46	.18	.04	.01
24	.01	.25	.17	1.6	13	3.0	2.1	1.1	.45	.14	.05	.01
25	.03	.17	.17	1.4	9.9	2.9	2.2	1.1	.48	.08	.06	.01
26	.05	.13	.17	1.2	9.6	4.3	3.1	1.0	.52	.07	.05	.01
27	.07	.13	.17	1.2	7.3	33	2.3	1.0	.50	.18	.05	.01
28	.07	.13	.17	1.2	15	18	2.0	.96	.47	.20	.04	.01
29	.06	.13	.17	1.1	---	8.0	2.0	.90	.46	.14	.04	.01
30	.05	.13	.17	1.2	---	5.8	2.0	.85	.43	.09	.03	0
31	.04	---	.13	1.1	---	5.5	---	.84	---	.04	.03	---
TOTAL	1.52	7.69	5.91	239.78	268.35	191.9	91.1	45.25	16.48	7.83	1.35	.45
MEAN	.049	.26	.19	7.73	9.58	6.19	3.04	1.46	.55	.25	.044	.015
MAX	.13	2.3	.67	88	79	33	5.0	2.7	.78	.45	.08	.03
MIN	.01	.05	.10	.13	.89	2.9	2.0	.84	.43	.04	.02	0
AC-FT	3.0	15	12	476	532	381	181	90	33	16	2.7	.9

CAL YR 1978 TOTAL 1617.54 MEAN 4.43 MAX 93 MIN 0 AC-FT 3210
WTR YR 1979 TOTAL 877.61 MEAN 2.40 MAX 88 MIN 0 AC-FT 1740

PACHECO CREEK BASIN

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 (183 m) upstream from Rudgear Road, near south city limits of town of Walnut Creek.

DRAINAGE AREA.--47.9 mi² (124.1 km²).

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

REVISED RECORDS.--WSP 1395: 1953(M).

GAGE.--Water-stage recorder. Concrete control since Dec. 4, 1962. Datum of gage is 169.98 ft (51.810 m), National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1971, at site 0.6 mi (1.0 km) downstream at different datum.

REMARKS.--Records good. No regulation; pumping for irrigation above station during periods of low flow.

AVERAGE DISCHARGE.--27 years, 15.5 ft³/s (0.439 m³/s), 11,230 acre-ft/yr (13.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,980 ft³/s (226 m³/s) Jan. 31, 1963, gage height, 14.40 ft (4.389 m) site and datum then in use, from rating curve extended above 2,200 ft³/s (62.3 m³/s) on basis of computed discharge at gage height 13.16 ft (4.011 m); maximum gage height, 14.55 ft (4.435 m) Dec. 23, 1955, site and datum then in use; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 8	1545	640	18.1	3.91	1.192	Jan. 15	0200	1500	42.5	5.14	1.567
Jan. 11	1245	*1800	51.0	5.45	1.661	Feb. 21	0415	1430	40.5	5.06	1.542

Minimum daily discharge, 1.3 ft³/s (0.037 m³/s) Oct. 14.

REVISIONS.--Revised daily discharges, in cubic feet per second, for September 1978, are given below. These figures supersede those published in the report for 1978.

Sept. 12, 1978.....	4.5	Sept. 17, 1978.....	2.3	Sept. 22, 1978.....	1.8	Sept. 27, 1978.....	1.8
13.....	3.8	18.....	2.1	23.....	1.8	28.....	1.9
14.....	3.4	19.....	1.9	24.....	1.9	29.....	2.0
15.....	3.0	20.....	2.0	25.....	1.8	30.....	2.0
16.....	2.6	21.....	1.9	26.....	1.7		

Month	Total	Mean	Max	Min	Ac/ft
September 1978	83.3	2.78	12	1.7	165
WTR YR 1978	9086.41	24.9	891	.05	18020

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.0	2.7	2.3	11	37	12	6.2	3.9	3.6	3.0	2.6
2	1.9	2.0	3.3	2.2	12	20	12	6.9	4.3	3.6	3.6	2.7
3	1.7	2.2	2.3	2.3	10	25	12	7.2	4.5	3.4	2.7	2.5
4	1.6	2.3	2.0	6.0	10	22	11	7.5	4.8	3.4	2.5	2.7
5	1.7	2.2	2.0	3.3	11	20	10	18	4.8	3.4	2.4	2.4
6	1.7	2.1	2.0	3.3	11	18	12	15	5.0	3.4	2.4	2.4
7	1.6	2.2	2.1	8.0	11	17	11	25	5.7	3.4	2.5	2.3
8	1.5	2.2	2.2	11.2	11	16	12	11	5.5	3.4	2.5	2.2
9	1.4	2.2	2.2	18	11	15	13	9.4	5.0	3.7	2.5	2.2
10	1.4	2.2	2.2	8.7	11	14	11	9.3	4.5	3.9	2.5	2.3
11	1.4	2.2	2.2	696	11	13	9.7	9.8	4.5	3.7	2.5	2.1
12	1.4	2.3	2.4	45	11	13	9.1	9.7	4.5	3.5	2.6	2.0
13	1.4	7.7	2.3	15	75	13	9.1	7.5	4.5	3.4	3.4	2.0
14	1.3	2.9	2.3	162	96	12	8.7	6.0	4.5	3.2	2.9	1.9
15	1.5	2.4	2.3	429	28	12	7.1	6.5	4.8	3.3	2.9	1.8
16	1.7	2.3	2.3	52	108	30	6.8	7.1	4.8	3.2	2.8	1.7
17	1.7	2.3	16	29	34	27	6.6	7.1	4.3	3.0	2.8	1.9
18	1.7	2.3	11	20	90	15	6.3	8.1	4.3	3.0	2.9	1.6
19	1.7	2.8	4.0	12	83	15	6.1	6.7	4.3	3.0	2.9	1.6
20	1.7	5.4	2.8	9.6	218	17	5.8	5.0	4.3	3.0	2.9	1.6
21	2.0	29	2.6	8.6	459	17	5.7	5.3	4.3	3.0	2.6	1.6
22	2.2	20	2.5	7.7	190	17	5.6	5.4	4.3	3.3	2.4	1.6
23	2.2	7.3	2.4	7.0	110	16	5.4	5.6	4.1	3.6	2.4	1.9
24	2.2	3.8	2.4	6.8	56	16	6.9	4.3	4.1	3.6	2.5	2.2
25	2.1	3.0	2.4	7.0	38	15	8.4	4.5	4.1	3.6	2.7	2.0
26	2.3	2.8	2.4	9.4	30	27	19	5.3	3.9	3.4	2.9	2.1
27	2.0	2.4	2.4	9.4	25	190	13	4.8	3.9	3.1	3.1	2.1
28	2.5	2.3	2.4	9.4	21	64	7.0	4.5	3.6	3.0	2.5	2.1
29	2.3	2.7	2.4	9.4	---	26	6.2	5.0	3.6	3.0	2.5	2.0
30	2.2	2.3	2.4	12	---	17	6.0	5.0	3.6	3.2	2.4	1.9
31	2.1	---	2.3	13	---	13	---	4.1	---	2.9	2.5	---
TOTAL	56.1	178.4	97.2	1735.4	1792	789	274.5	242.8	132.3	103.2	83.7	62.0
MEAN	1.81	5.95	3.14	56.0	64.0	25.5	9.15	7.83	4.41	3.33	2.70	2.07
MAX	2.5	5.4	16	696	459	190	19	25	5.7	3.9	3.6	2.7
MIN	1.3	2.0	2.0	2.2	10	12	5.4	4.1	3.6	2.9	2.4	1.6
AC-FT	111	354	193	3440	3550	1560	544	482	262	205	166	123
CAL YR 1978 TOTAL	8671.02		MEAN 23.8	MAX 891	MIN .92	AC-FT 17200						
WTR YR 1979 TOTAL	5546.60		MEAN 15.2	MAX 696	MIN 1.3	AC-FT 11000						

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 (0.3 km) upstream from Southern Pacific Railroad bridge, and 3.8 mi (6.1 km) downstream from confluence of San Ramon and Las Trampas Creeks.

DRAINAGE AREA.--85.2 mi² (220.7 km²), revised.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 35.44 ft (10.802 m) Corps of Engineers datum.

REMARKS.--Records good. Flow slightly regulated by Lafayette Reservoir 10 mi (16 km) upstream, capacity, 4,240 acre-ft (5.23 hm³). Some small diversions for irrigation above station.

AVERAGE DISCHARGE.--11 years, 41.5 ft³/s (1.175 m³/s), 30,070 acre-ft/yr (37.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft³/s (227 m³/s) Feb. 27, 1973, gage height, 14.0 ft (4.27 m), estimated, from rating curve extended above 3,000 ft³/s (85.0 m³/s) on basis of computed discharge at gage height 13.7 ft (4.18 m); minimum daily, 0.70 ft³/s (0.020 m³/s) Oct. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 850 ft³/s (24 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 8	1600	1090	30.9	5.34	1.628	Jan. 15	0145	2620	74.2	7.17	2.185
Jan. 11	1215	*3060	86.7	7.73	2.356	Feb. 21	0630	2770	78.4	7.36	2.243

Minimum daily discharge, 4.3 ft³/s (0.122 m) Oct. 15, Nov. 3, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	4.5	8.4	6.7	12	156	31	17	7.0	7.3	8.0	6.1
2	5.1	4.6	8.1	6.5	12	58	30	18	8.0	7.2	8.6	6.3
3	4.8	4.3	6.6	9.1	11	50	30	18	8.4	7.2	7.1	5.8
4	4.6	5.0	5.0	17	11	44	31	19	8.2	7.5	6.3	5.9
5	4.7	4.7	7.9	9.3	9.7	40	35	45	8.5	7.7	6.2	5.3
6	4.5	4.5	11	9.0	10	38	46	28	9.3	13	6.1	5.9
7	4.8	4.8	9.1	31	11	36	45	45	9.3	18	6.7	5.9
8	4.4	4.6	7.1	24.7	10	35	50	18	8.8	19	6.2	5.8
9	4.6	4.6	5.7	63	9.7	32	42	21	8.2	12	5.9	5.7
10	4.8	4.3	5.8	29	9.7	30	30	12	8.3	8.3	6.1	6.1
11	4.7	4.4	6.0	1120	9.2	29	27	11	8.3	8.0	6.7	4.8
12	4.6	8.1	6.3	72	9.7	29	28	11	8.4	8.0	6.7	5.1
13	4.7	16	6.3	28	151	28	29	11	7.5	8.0	7.9	5.2
14	4.7	7.8	6.1	455	153	27	30	11	7.6	8.0	7.2	4.9
15	4.3	5.5	6.2	988	29	29	29	11	8.1	7.6	7.1	4.7
16	4.4	5.5	6.2	102	140	59	30	14	8.5	7.4	7.8	5.1
17	4.5	5.4	55	55	34	52	35	15	8.3	7.4	8.0	5.5
18	4.7	5.5	38	41	98	29	24	15	8.4	7.5	7.3	4.6
19	4.9	11	11	25	77	28	25	10	8.2	7.7	6.5	4.6
20	18	119	7.6	24	288	27	29	8.9	8.3	7.7	6.7	4.8
21	6.3	69	7.0	22	812	25	18	9.8	7.8	7.4	6.1	4.8
22	17	54	6.9	19	464	27	21	11	7.6	9.0	5.8	4.8
23	6.3	21	17	15	172	23	42	11	7.4	9.1	6.0	5.1
24	5.1	8.9	6.7	14	75	23	17	9.5	7.1	8.5	6.1	5.6
25	4.8	7.4	6.6	14	55	21	15	9.7	6.9	8.5	6.0	5.3
26	5.2	6.7	6.6	12	60	41	48	10	6.9	7.2	6.3	5.4
27	5.1	6.6	6.6	12	42	302	24	8.2	7.4	7.4	6.7	5.4
28	5.5	5.8	7.0	14	119	129	14	8.1	7.2	8.3	6.0	5.4
29	5.7	6.6	6.9	12	---	55	13	8.4	7.1	8.1	6.1	5.1
30	10	5.8	6.6	14	---	35	14	8.1	7.4	8.3	6.1	5.0
31	6.0	---	6.6	15	---	31	---	7.2	---	8.0	6.2	---
TOTAL	184.1	425.9	307.9	3500.6	2894.0	1568	882	459.9	238.4	274.3	206.5	160.0
MEAN	5.94	14.2	9.93	113	103	50.6	29.4	14.8	7.95	8.85	6.66	5.33
MAX	18	119	55	1120	812	302	50	45	9.3	19	8.6	6.3
MIN	4.3	4.3	5.0	6.5	9.2	21	13	7.2	6.9	7.2	5.8	4.6
AC-FT	365	845	611	6940	5740	3110	1750	912	473	544	410	317

CAL YR 1978	TOTAL	23538.9	MEAN 64.5	MAX 1570	MIN 4.3	AC-FT 46690
WTR YR 1979	TOTAL	11101.6	MEAN 30.4	MAX 1120	MIN 4.3	AC-FT 22020

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 (61 m) downstream from road ford, 1.2 mi (1.9 km) upstream from mouth, and 3.8 mi (6.1 km) northeast of Alamo.

DRAINAGE AREA.--1.22 mi² (3.16 km²).

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 520 ft (158 m), from topographic map.

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

AVERAGE DISCHARGE.--5 years, 0.18 ft³/s (0.005 m³/s), 130 acre-ft/yr (160,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 86 ft³/s (2.44 m³/s) Jan. 16, 1978, gage height, 2.18 ft (0.664 m), from rating curve extended above 12 ft³/s (0.34 m³/s) on basis of critical depth computation; no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11 ft³/s (0.31 m³/s) Feb. 21, gage height 1.48 ft (0.451 m), no peak above base of 30 ft³/s (0.8 m³/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	.04	.19	.61	.21	.13				
2		0	0	.06	.18	.44	.21	.12				
3		0	0	.09	.17	.40	.19	.12				
4		0	0	.12	.17	.36	.18	.12				
5		0	0	.12	.17	.32	.18	.17				
6		0	0	.10	.16	.30	.18	.16				
7		0	0	.14	.16	.27	.17	.23				
8		0	0	.58	.15	.26	.16	.14				
9		0	0	.16	.15	.24	.16	.12				
10		0	0	.11	.14	.22	.16	.11				
11		0	0	1.8	.13	.22	.16	.10				
12		0	0	.29	.13	.21	.15	.09				
13		0	0	.15	.38	.20	.15	.08				
14		0	0	1.7	.33	.19	.14	.07				
15		0	0	4.4	.18	.22	.14	.08				
16		0	0	1.4	.33	.27	.15	.08				
17		0	0	.94	.21	.21	.17	.07				
18		0	0	.67	.27	.19	.14	.05				
19		0	0	.47	.22	.19	.14	.04				
20		0	0	.41	.92	.18	.14	.05				
21		0	0	.37	4.2	.17	.13	.05				
22		.06	0	.32	2.2	.17	.14	.06				
23		0	0	.28	1.5	.17	.15	.04				
24		0	0	.28	1.0	.15	.13	.03				
25		0	0	.24	.80	.15	.13	.01				
26		0	.01	.21	.71	.24	.22	0				
27		0	.05	.22	.61	1.0	.14	0				
28		0	.07	.21	.80	.51	.12	0				
29		0	.07	.19	---	.31	.12	0				
30		0	.07	.24	---	.26	.13	0				
31		---	.05	.20	---	.23	---	0	---			---
TOTAL	0	.06	.32	16.51	16.56	8.86	4.69	2.32	0	0	0	0
MEAN	0	.002	.010	.53	.59	.29	.16	.075	0	0	0	0
MAX	0	.06	.07	4.4	4.2	1.0	.22	.23	0	0	0	0
MIN	0	0	0	.04	.13	.15	.12	0	0	0	0	0
AC-FT	0	.1	.6	33	33	18	9.3	4.6	0	0	0	0
CAL YR 1978	TOTAL	183.00	MEAN .50	MAX	12	MIN 0	AC-FT 363					
WTR YR 1979	TOTAL	49.32	MEAN .14	MAX	4.4	MIN 0	AC-FT 98					

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 (61 m) downstream from bridge on State Highway 29, and 0.6 mi (1.0 km) downstream from Cyrus Creek.

DRAINAGE AREA.--21.9 mi² (56.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 360 ft (110 m), from topographic map.

REMARKS.--Records fair. Flow slightly regulated by Kimball Creek Reservoir 3.7 mi (6.0 km) upstream, capacity, 344 acre-ft (424,000 m³). No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,400 ft³/s (125 m³/s) Jan. 16, 1978, gage height, 17.21 ft (5.246 m); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28 m³/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 11	1030	1150	32.6	8.48	2.585	Feb. 18	1430	1220	34.6	8.68	2.646
Feb. 13	1800	*1240	35.1	8.76	2.670						

Minimum daily discharge, 0.01 ft³/s (<0.001 m³/s) on many days in September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.20	.19	.14	5.8	193	22	8.6	2.2	.60	.05	.02
2	.04	.16	.19	.15	5.7	99	20	8.1	2.1	.60	.08	.02
3	.04	.15	.13	.12	5.2	79	18	6.8	2.0	.51	.05	.02
4	.04	.11	.12	.31	5.1	59	16	5.7	1.9	.46	.08	.02
5	.04	.10	.14	.28	4.9	44	15	12	1.7	.49	.08	.02
6	.05	.11	.15	.06	4.7	33	17	11	1.6	.52	.07	.02
7	.05	.14	.12	.89	4.2	28	14	13	1.5	.44	.07	.01
8	.05	.16	.14	10	4.2	25	12	9.7	1.7	.33	.08	.01
9	.05	.17	.15	1.2	4.2	20	11	7.5	1.8	.25	.08	.01
10	.06	.19	.15	16	4.2	17	9.5	5.8	1.9	.57	.07	.01
11	.05	.09	.15	384	4.3	15	9.2	4.6	1.7	.57	.06	.01
12	.05	.42	.17	37	4.4	13	8.0	4.1	1.6	.22	.05	.01
13	.07	.30	.27	15	515	14	7.2	3.5	1.6	.11	.05	.01
14	.08	.14	.27	97	280	12	6.3	3.0	1.5	.07	.04	.01
15	.09	.13	.29	254	92	13	5.8	2.6	1.6	.12	.04	.01
16	.09	.11	.28	63	177	14	5.8	2.5	1.8	.09	.04	.01
17	.11	.11	.95	32	83	14	6.3	2.1	1.4	.08	.03	.01
18	.10	.16	.69	23	438	9.8	3.3	2.0	1.3	.06	.03	.01
19	.11	.42	.16	15	195	9.4	3.0	1.8	1.3	.06	.03	.01
20	.13	.54	.08	11	298	8.2	3.7	1.9	1.3	.07	.04	.01
21	.14	.21	.08	9.4	401	7.3	4.0	1.8	1.2	.06	.12	.01
22	.15	.39	.09	8.4	275	6.3	4.2	1.7	1.1	.06	.04	.01
23	.15	.27	.09	7.1	177	5.8	18	1.4	1.1	.05	.05	.01
24	.15	.20	.08	6.6	104	5.2	23	1.3	.90	.05	.05	.01
25	.15	.20	.14	6.2	77	5.7	10	1.3	.92	.06	.04	.01
26	.15	.22	.15	5.7	92	9.0	14	1.1	.88	.05	.03	.02
27	.15	.19	.15	5.2	62	128	19	1.3	.62	.07	.03	.01
28	.18	.16	.15	5.3	194	67	13	1.7	.49	.10	.03	.02
29	.23	.06	.12	4.9	---	40	9.7	2.0	.60	.14	.03	.02
30	.23	.06	.11	6.8	---	31	9.2	2.0	.68	.07	.03	.01
31	.23	---	.14	6.6	---	25	---	2.3	---	.05	.03	---
TOTAL	3.27	5.87	6.09	1032.35	3516.9	1049.7	337.2	134.2	41.99	6.98	1.60	.39
MEAN	.11	.20	.20	33.3	126	33.9	11.2	4.33	1.40	.23	.052	.013
MAX	.23	.54	.95	384	515	193	23	13	2.2	.60	.12	.02
MIN	.04	.06	.08	.06	4.2	5.2	3.0	1.1	.49	.05	.03	.01
AC-FT	6.5	12	12	2050	6980	2080	669	266	83	14	3.2	.8

CAL YR 1978	TOTAL	14792.29	MEAN	40.5	MAX	1710	MIN	.04	AC-FT	29340
WTR YR 1979	TOTAL	6136.54	MEAN	16.8	MAX	515	MIN	.01	AC-FT	12170

NAPA RIVER BASIN

11455900 NAPA RIVER AT CALISTOGA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water year 1976-79 (discontinued).

BIOLOGICAL DATA: Water year 1976.

COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	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)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS CAC03)
NOV 08...	1130	--	--	--	--	--	--	--	--	--
JAN 10...	0910	93	24	19	11	81	64	3.7	5.4	69
FEB 07...	0910	56	2	12	6.4	24	47	1.4	1.9	54
MAR 14...	0930	58	12	13	6.3	14	33	.8	1.8	46
MAY 02...	0930	68	11	15	7.4	18	36	1.0	2.1	57

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	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)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)
NOV 08...	--	--	--	--	--	--	--	--	5	--
JAN 10...	37	110	2.5	44	360	359	.49	.58	--	5000
FEB 07...	21	23	.5	37	172	161	.23	.46	--	690
MAR 14...	17	12	.2	36	134	134	.18	1.3	--	280
MAY 02...	18	16	.4	36	145	150	.20	.39	--	500

DATE	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV 08...	0	17	17	--	20	710	.21	0	30
JAN 10...	--	--	--	280	--	--	--	--	--
FEB 07...	--	--	--	70	--	--	--	--	--
MAR 14...	--	--	--	70	--	--	--	--	--
MAY 02...	--	--	--	120	--	--	--	--	--

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 (0.3 km) upstream from highway bridge, 1.3 mi (2.1 km) northeast of Zinfandel, and 2.5 mi (4.0 km) east of St. Helena.

DRAINAGE AREA.--81.4 mi² (210.8 km²).

WATER-DISCHARGE RECORDS

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 (51.853 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1958, at datum 3.00 ft (0.914 m) higher. Nov. 22, 1958, to July 22, 1976, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good. Some regulation by Bell Canyon Reservoir since 1959, capacity, 2,530 acre-ft (3.12 hm³). Small diversions above station for irrigation of about 1,500 acres (6.07 km²).

AVERAGE DISCHARGE.--43 years, 92.6 ft³/s (2.622 m³/s), 67,090 acre-ft/yr (82.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s (357 m³/s) Dec. 22, 1955, gage height, 18.17 ft (5.538 m) present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,840 ft³/s (80.4 m³/s) Jan. 11, gage height, 9.41 ft (2.868 m), no peak above base of 4,200 ft³/s (119 m³/s) minimum daily, 0.15 ft³/s (0.004 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	1.2	1.9	2.0	34	550	98	41	13	4.7	1.6	.84
2	.95	1.1	1.9	2.0	30	321	88	39	12	4.7	1.6	.84
3	.95	1.1	1.9	2.1	29	262	80	35	12	4.5	1.6	.84
4	.95	1.1	1.9	2.5	28	209	77	33	12	4.5	1.6	.84
5	.95	1.1	1.9	2.8	28	169	76	50	12	4.3	1.6	.84
6	.95	1.3	1.9	3.0	27	136	75	50	11	3.3	1.5	.84
7	.95	1.3	1.9	3.9	26	117	71	58	9.4	2.8	1.4	.84
8	.95	1.3	1.9	4.8	25	104	65	52	8.0	2.1	1.5	.94
9	.95	1.3	1.9	2.4	25	92	56	51	7.3	2.0	1.8	.95
10	.95	1.2	1.9	2.6	25	82	49	43	7.3	2.3	1.9	.95
11	.95	1.2	1.9	1190	25	78	49	39	7.0	2.4	2.0	.95
12	.95	1.3	1.9	148	25	74	47	36	5.9	2.6	1.9	.95
13	1.2	1.9	1.9	61	1060	67	43	34	4.7	3.0	1.9	.95
14	1.2	2.0	2.0	389	840	64	41	31	4.5	2.7	1.9	.95
15	1.2	2.0	2.0	987	293	65	39	29	4.9	2.4	1.8	.95
16	1.2	1.9	2.0	263	374	73	38	28	5.2	2.7	1.4	.95
17	1.2	1.9	3.3	131	243	74	37	27	4.7	2.8	1.3	.95
18	1.2	1.9	4.7	87	753	64	31	25	4.5	2.6	1.2	.95
19	1.2	2.1	4.6	65	535	61	28	23	4.9	2.1	1.1	.79
20	1.2	6.0	3.3	53	795	53	27	23	5.7	1.8	.84	.40
21	1.2	5.0	3.0	44	1260	51	26	23	5.9	1.9	1.1	.28
22	1.2	3.5	2.9	38	883	47	26	23	6.2	2.2	1.2	.24
23	1.2	2.9	2.8	34	599	45	45	22	5.9	2.2	1.2	.25
24	1.2	2.7	2.4	32	391	43	92	20	5.9	2.1	1.1	.21
25	1.2	2.5	2.2	30	286	41	53	19	5.9	2.0	1.0	.19
26	1.2	2.4	2.2	29	314	46	59	18	5.9	2.1	.89	.24
27	1.2	2.3	2.2	27	219	512	62	16	5.5	2.0	.92	.26
28	1.3	2.2	2.2	27	438	321	49	16	5.2	1.9	.95	.19
29	1.3	2.1	2.2	27	---	187	46	16	4.9	1.9	.95	.16
30	1.3	1.9	2.0	38	---	137	43	15	4.9	1.8	.95	.15
31	1.3	---	2.0	42	---	112	---	14	---	1.6	.91	---
TOTAL	34.60	61.7	72.7	3858.3	9610	4257	1616	949	212.2	82.0	42.61	19.68
MEAN	1.12	2.06	2.35	124	343	137	53.9	30.6	7.07	2.65	1.37	.66
MAX	1.3	6.0	4.7	1190	1260	550	98	58	13	4.7	2.0	.95
MIN	.95	1.1	1.9	2.0	25	41	26	14	4.5	1.6	.84	.15
AC-FT	69	122	144	7650	19060	8440	3210	1880	421	163	85	39
CAL YR 1978 TOTAL	48673.80		MEAN 133	MAX 4900	MIN .95	AC-FT 96540						
WTR YR 1979 TOTAL	20815.79		MEAN 57.0	MAX 1260	MIN .15	AC-FT 41290						

NAPA RIVER BASIN

11456000 NAPA RIVER NEAR ST. HELENA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year (discontinued).
 CHEMICAL ANALYSES: Water years 1952-66, 1976 to current year (discontinued).
 WATER TEMPERATURES: Water years 1958 to January 1979 (discontinued).
 SEDIMENT RECORDS: Water years 1957-62.

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: October 1957 to January 1979.
 SEDIMENT RECORDS: December 1956 to June 1962.

INSTRUMENTATION.--Temperature recorder since October 1957.

COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: Maximum recorded, 33.5°C July 18, 1968; minimum recorded, 3.5°C
 Dec. 14, 15, 1967, Dec. 11, 1972.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum for period recorded, 20.0°C Oct. 1-3; minimum for period recorded, 6.0°C Dec. 20,
 30, 31, Jan. 29, 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	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)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS CAC03)		
JAN											
10...	0815	110	32	25	12	36	40	1.5	3.5	80	
FEB											
07...	0825	82	16	18	9.0	24	38	1.2	2.3	66	
MAR											
14...	0815	78	12	18	8.0	16	30	.8	2.1	66	
MAY											
02...	0840	83	12	18	9.2	18	31	.9	3.0	71	
DATE		SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	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)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
JAN											
10...	37	49	.7	28	249	245	.34	.91	1500	100	
FEB											
07...	28	23	.4	36	197	189	.27	1.9	660	30	
MAR											
14...	19	13	.2	35	156	161	.21	2.1	290	70	
MAY											
02...	19	16	.3	38	162	170	.22	1.2	410	100	

NAPA RIVER BASIN

11456000 NAPA RIVER NEAR ST. HELENA, CA.-Continued

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO JANUARY 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.0	18.5	13.5	12.5	13.0	12.0	8.0	6.5				
2	20.0	18.5	13.5	12.0	12.0	10.0	8.5	7.0				
3	20.0	18.5	14.0	12.0	10.5	9.0	9.5	7.5				
4	20.0	18.5	14.5	12.5	10.5	9.0	10.5	9.5				
5	19.5	18.5	15.0	13.0	10.5	9.5	10.5	10.0				
6	19.0	17.5	15.0	13.0	9.5	8.0	10.0	8.5				
7	18.5	17.0	14.5	12.5	8.0	7.0	10.0	9.5				
8	18.5	17.0	15.0	12.5	8.0	6.5	10.0	9.5				
9	18.5	17.0	14.5	13.0	9.0	7.0	11.0	9.5				
10	18.0	16.5	13.5	12.0	9.5	7.5	11.5	11.0				
11	18.0	16.5	12.0	10.5	10.0	8.0	12.0	10.5				
12	18.5	17.0	11.0	9.5	10.5	9.5	12.0	10.5				
13	19.0	17.5	12.0	10.5	10.5	9.0	10.5	9.5				
14	19.0	17.5	11.5	9.5	10.0	8.5	10.5	9.0				
15	19.0	17.5	11.0	9.0	9.5	8.0	10.5	9.5				
16	19.0	17.5	12.5	11.0	9.0	7.0	10.5	8.5				
17	18.5	17.5	12.0	10.5	10.0	9.0	10.0	8.0				
18	18.5	17.5	12.0	11.5	9.5	8.5	11.0	9.0				
19	18.0	16.5	12.5	11.5	8.5	7.0	10.5	8.0				
20	17.0	16.0	13.0	12.0	8.0	6.0	10.0	8.0				
21	17.0	15.5	12.5	11.5	8.0	6.5	10.5	8.5				
22	17.0	15.0	12.0	11.0	8.0	6.5	10.0	8.5				
23	17.0	15.0	12.5	11.0	7.5	7.0	9.5	8.0				
24	16.5	15.0	12.0	10.5	8.5	7.0	10.0	9.0				
25	17.0	15.5	11.5	10.0	8.5	8.0	9.5	7.5				
26	16.5	15.0	11.0	9.5	8.0	7.0	9.0	7.0				
27	16.0	14.5	10.5	9.0	8.5	7.5	9.0	7.0				
28	16.0	14.5	11.5	9.5	9.5	8.0	9.0	7.0				
29	15.5	14.0	12.0	10.5	8.5	7.5	8.0	6.0				
30	15.0	13.5	12.5	11.0	7.5	6.0	7.5	6.0				
31	14.0	13.0	---	---	7.5	6.0	8.0	6.5				
MONTH	20.0	13.0	15.0	9.0	13.0	6.0	12.0	6.0				

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 (0.6 km) downstream from Dry Creek, and 5 mi (8 km) north of Napa.

DRAINAGE AREA.--218 mi² (565 km²).

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 (7.541 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow slightly regulated by Bell Canyon Reservoir beginning in 1959, capacity, 2,530 acre-ft (3.12 hm³) and Lake Hennessey beginning in December 1945, capacity, 31,000 acre-ft (38.2 hm³). Diversions for irrigation of about 10,000 acres (40.5 km²) above station.

AVERAGE DISCHARGE.--23 years, 176 ft³/s (4.984 m³/s), 127,500 acre-ft/yr (157 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,900 ft³/s (479 m³/s) Jan. 31, 1963, gage height, 27.59 ft (8.409 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,310 ft³/s (179 m³/s) Jan. 11 (1300 hrs), gage height, 14.32 ft (4.365 m), no other peak above base of 5,000 ft³/s (142 m³/s); minimum daily, 1.4 ft³/s (0.040 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.5	5.6	5.0	66	1120	199	79	23	15	1.7	3.8
2	2.9	2.9	5.1	5.4	58	677	180	78	22	12	1.8	3.8
3	2.7	3.0	4.9	6.1	52	560	164	94	23	11	2.0	3.6
4	2.4	2.8	5.1	6.4	50	474	153	82	22	11	2.8	3.7
5	2.3	3.1	5.3	6.1	50	405	151	69	19	10	4.1	3.3
6	2.5	3.0	5.2	6.1	49	342	158	89	20	8.1	4.4	3.4
7	2.2	2.8	4.9	6.4	47	299	153	96	15	6.8	4.9	3.4
8	2.1	3.2	4.6	5.1	45	273	134	108	13	6.4	4.6	3.1
9	2.2	3.2	5.0	7.6	44	245	121	80	10	6.1	5.0	3.3
10	2.3	2.8	5.4	27	42	221	108	70	12	6.4	5.2	4.0
11	2.4	2.9	5.8	3120	40	204	107	64	12	4.2	5.5	2.0
12	2.4	3.5	5.7	487	40	185	102	61	11	4.8	5.3	1.8
13	2.3	3.9	5.3	207	1200	170	96	57	11	4.2	5.0	1.7
14	2.3	3.8	5.2	760	1980	167	91	55	10	4.3	4.8	1.7
15	2.6	4.3	5.3	2380	752	166	88	51	8.2	4.8	4.6	1.9
16	2.5	4.4	5.0	653	873	172	83	49	10	5.1	4.5	2.1
17	2.6	4.3	5.7	334	603	176	85	47	13	4.8	4.4	2.2
18	2.5	4.2	6.9	222	950	157	62	43	12	4.8	4.4	2.4
19	2.6	4.9	8.2	154	948	145	57	42	11	4.5	4.2	3.0
20	2.8	5.8	8.0	123	1330	130	61	41	10	4.8	4.1	2.5
21	2.8	15	7.8	105	2270	127	65	41	12	4.5	4.1	5.3
22	2.8	10	6.4	92	1790	119	62	41	11	4.5	3.6	2.3
23	2.8	7.4	6.1	82	1330	116	82	39	11	5.4	3.6	1.8
24	2.6	5.9	6.1	74	911	112	149	37	10	5.6	3.9	1.8
25	2.6	5.4	6.4	68	681	109	104	33	12	5.4	4.1	1.8
26	2.5	5.0	6.1	60	681	109	104	32	10	5.4	3.7	1.8
27	2.5	4.9	6.1	58	515	675	116	31	8.4	4.2	3.7	1.7
28	2.5	4.7	6.4	57	672	561	98	30	6.6	3.7	3.6	1.6
29	2.5	4.8	6.1	54	---	354	89	28	10	3.7	3.9	1.5
30	2.5	5.5	5.7	58	---	267	83	24	16	3.1	4.1	1.4
31	2.5	---	5.0	80	---	224	---	23	---	2.1	4.3	---
TOTAL	77.8	139.9	180.4	9423.5	18069	9061	3305	1714	394.2	186.7	125.9	77.7
MEAN	2.51	4.66	5.82	304	645	292	110	55.3	13.1	6.02	4.06	2.59
MAX	2.9	15	8.2	3120	2270	1120	199	108	23	15	5.5	5.3
MIN	2.1	2.5	4.6	5.0	40	109	57	23	6.6	2.1	1.7	1.4
AC-FT	154	277	358	18690	35840	17970	6560	3400	782	370	250	154
CAL YR 1978	TOTAL	103517.5	MEAN 284	MAX 10200	MIN 2.0	AC-FT 205300						
WTR YR 1979	TOTAL	42755.1	MEAN 117	MAX 3120	MIN 1.4	AC-FT 84800						

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 to current year.
 SPECIFIC CONDUCTANCE: Water years 1978 to current year.
 WATER TEMPERATURES: Water years 1977 to current year.
 SEDIMENT RECORDS: Water years 1971, 1977 to current year.

PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: June 1978 to current year.
 WATER TEMPERATURES: October 1976 to current year.
 SEDIMENT RECORDS: October 1976 to September 1978.

INSTRUMENTATION: Water-quality monitor since June 1978.

REMARKS.--Differences between recorder values before adjustment and field measurement values exceeded ±10 percent micromhos for specific conductance and ±1.0°C for water temperature at times during the year.

COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 489 micromhos Sept. 21, 1979; 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.

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 489 micromhos Sept. 21; minimum recorded, 81 micromhos Mar. 1.
 WATER TEMPERATURES: Maximum recorded, 28.0°C July 13; minimum recorded, 3.0°C Dec. 31, Jan. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT										
20...	1230	2.7	476	7.6	15.0	.40	--	--	6	K1
NOV										
16...	1245	4.4	457	8.0	9.0	.20	14.0	--	31	9
DEC										
13...	1150	5.3	442	7.6	7.0	.80	12.2	--	K6	K1
JAN										
09...	1315	65	312	7.4	10.5	56	9.3	--	840	--
FEB										
12...	1245	357	330	8.2	12.0	.60	12.8	--	25	22
13...	1145	160	288	7.9	11.0	--	10.2	27	--	--
13...	1345	500	252	7.8	11.0	--	9.7	24	--	--
13...	1445	950	208	7.7	11.0	--	10.2	51	--	--
13...	1615	1520	197	7.6	11.0	--	10.2	43	--	--
13...	1730	2000	175	7.6	11.0	--	10.1	64	--	--
13...	2000	3080	120	7.5	11.0	--	10.2	58	--	--
13...	2345	4200	99	7.5	11.0	--	10.2	62	--	--
14...	0345	3140	103	7.5	10.5	--	10.3	47	--	--
14...	0745	2150	118	7.6	10.0	--	10.6	32	--	--
14...	1015	1860	134	7.7	10.0	--	10.7	43	--	--
14...	1300	1580	141	7.7	11.0	--	10.6	39	--	--
MAR										
20...	1145	127	295	7.8	14.0	1.9	11.2	--	540	44
APR										
17...	1145	86	315	8.0	16.0	3.3	10.6	--	35	K4
MAY										
16...	1140	48	329	7.7	17.5	4.5	9.4	--	>80	16
31...	1100	25	388	7.8	20.4	--	9.5	--	--	--
31...	1115	25	388	7.9	20.6	--	9.7	--	--	--
31...	1130	25	386	7.9	20.9	--	9.8	--	--	--
31...	1145	25	386	7.9	21.1	--	10.0	--	--	--
31...	1200	24	382	7.9	21.3	--	10.1	--	--	--
31...	1215	24	383	8.0	21.5	--	10.2	--	--	--
31...	1230	24	383	8.0	21.7	--	10.3	--	--	--
31...	1245	24	379	8.0	22.0	--	10.4	--	--	--
31...	1300	24	379	8.0	22.2	--	10.5	--	--	--
31...	1315	24	377	8.1	22.4	--	10.9	--	--	--
31...	1330	24	377	8.1	22.6	--	11.0	--	--	--
31...	1345	24	373	8.1	22.8	--	11.0	--	--	--
31...	1400	24	374	8.1	23.0	--	11.0	--	--	--
31...	1415	24	374	8.1	23.2	--	11.0	--	--	--

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

NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CaCO3)	HARD-NESS, NONCAR-BONATE (MG/L CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
JUN									
01...	0015	22	372	7.6	22.9	6.6	--	--	--
01...	0030	22	371	7.6	22.8	6.6	--	--	--
01...	0045	22	374	7.6	22.7	6.6	--	--	--
01...	0100	22	373	7.6	22.5	6.6	--	--	--
01...	0115	22	372	7.6	22.3	6.6	--	--	--
01...	0130	23	374	7.6	22.2	6.5	--	--	--
01...	0145	23	373	7.6	22.1	6.6	--	--	--
01...	0200	23	372	7.6	21.9	6.6	--	--	--
01...	0215	23	374	7.6	21.7	6.6	--	--	--
01...	0230	23	373	7.6	21.6	6.6	--	--	--
01...	0245	23	372	7.6	21.4	6.6	--	--	--
01...	0300	23	375	7.6	21.2	6.6	--	--	--
01...	0315	23	374	7.6	21.0	6.7	--	--	--
01...	0330	23	373	7.6	20.9	6.7	--	--	--
01...	0345	23	370	7.6	20.8	6.7	--	--	--
01...	0400	23	372	7.6	20.7	6.7	150	30	27
01...	0415	23	372	7.6	20.5	6.8	--	--	--
01...	0430	23	371	7.6	20.5	6.8	--	--	--
01...	0445	23	370	7.6	20.3	6.8	--	--	--
01...	0500	23	375	7.6	20.2	6.8	--	--	--
01...	0515	23	374	7.6	20.1	6.8	--	--	--
01...	0530	23	373	7.6	20.0	6.8	--	--	--
01...	0545	23	372	7.6	19.9	6.8	--	--	--
01...	0600	23	371	7.6	19.8	6.8	--	--	--
01...	0615	23	370	7.6	19.8	6.8	--	--	--
01...	0630	23	372	7.6	19.7	6.9	--	--	--
01...	0645	23	371	7.6	19.7	6.9	--	--	--
01...	0700	23	370	7.6	19.6	7.0	--	--	--
01...	0715	23	376	7.6	19.5	7.0	--	--	--
01...	0730	23	375	7.6	19.5	7.1	--	--	--
01...	0745	23	375	7.6	19.5	7.1	--	--	--
01...	0800	23	374	7.6	19.5	7.2	150	27	26
01...	0815	23	373	7.6	19.5	7.3	--	--	--
01...	0830	23	371	7.6	19.6	7.4	--	--	--
01...	0845	23	371	7.6	19.6	7.6	--	--	--
01...	0900	23	371	7.6	19.6	7.7	--	--	--
01...	0915	23	368	7.6	19.7	7.9	--	--	--
01...	0930	24	364	7.7	19.8	8.1	--	--	--
01...	0945	24	364	7.7	19.9	8.3	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)
MAY									
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	20	24	25	.9	2.8	120	33	20	.3
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	20	24	25	.9	3.0	120	33	19	.3
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
31...	20	23	25	.8	--	--	--	19	--

NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
JUN												
01...	1000	24	365	7.7	20.1	--	8.6	--	--	--	--	--
01...	1015	24	360	7.7	20.3	--	8.8	--	--	--	--	--
01...	1030	24	362	7.8	20.5	--	9.0	--	--	--	--	--
01...	1045	24	363	7.8	20.7	--	9.3	--	--	--	--	--
01...	1100	24	363	7.8	21.0	--	9.5	--	--	--	--	--
01...	1115	24	365	7.8	21.2	--	9.7	--	--	--	--	--
01...	1130	24	363	7.9	21.4	--	9.9	--	--	--	--	--
01...	1145	24	364	7.9	21.6	--	10.1	--	--	--	--	--
01...	1200	24	363	7.9	21.8	--	10.3	--	--	150	30	27
12...	1140	12	422	7.4	20.0	2.2	9.9	62	12	170	30	30
JUL												
10...	1120	6.7	413	7.2	22.0	1.5	9.7	22	20	170	10	27
AUG												
06...	1315	4.7	435	8.0	20.0	1.6	10.8	16	9	180	12	30
SEP												
18...	1045	2.3	455	7.9	20.0	1.7	9.3	8	7	200	18	33

DATE	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO3)	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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	20	24	25	.9	2.8	120	--	44	.4	31	--	301
12...	23	23	22	.8	3.3	140	34	22	.3	31	247	260
JUL												
10...	25	25	24	.8	2.8	160	34	21	.3	29	264	260
AUG												
06...	26	21	20	.7	2.7	170	35	19	.3	32	275	268
SEP												
18...	28	24	38	.8	2.7	180	42	16	.3	31	279	286

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	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, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	.41	19.5	6	--	2.3	--	--	--	--	--	--	.11
12...	.34	8.00	--	2.5	--	.06	.67	.73	--	3.2	.23	.20
JUL												
10...	.36	4.78	--	1.3	--	.03	.08	.11	.15	1.4	.08	.08
AUG												
06...	.37	3.49	--	.69	--	.01	.52	.53	.48	1.2	.02	.06
SEP												
18...	.38	1.73	--	.06	.11	.02	.25	.27	.18	.33	.03	.05

11458000 NAPA RIVER NEAR NAPA, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	OCT 20,78 1230	MAR 20,79 1145	MAY 16,79 1140	JUN 12,79 1140
TOTAL CELLS/ML	150	1400	490	590
DIVERSITY: DIVISION	0.0	0.7	1.5	1.8
..CLASS	0.0	0.7	1.5	1.8
...ORDER	0.0	1.1	1.6	2.2
...FAMILY	1.4	2.5	2.1	2.3
...GENUS	1.8	2.7	2.3	2.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHLOROCOCCACEAE								
...CHLOROCOCCUM	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
...PEDIASTRUM	--	-	--	-	230#	47	--	-
...OOCYSTACEAE								
...ANKISTRODESMUS	--	-	11	1	14	3	--	-
...CHLORELLA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
...SCENEDESMUS	--	-	92	7	--	-	210#	35
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	--	-	--	-	--	-	26	4
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCAEAE								
...CYCLOTELLA	--	-	100	8	14	3	77	13
...HELOSIRA	--	-	46	3	--	-	--	-
...PENNALES								
...ACHNANTHACEAE								
...ACHNANTHES	--	-	--	-	43	9	13	2
...COCCONEIS	22	14	23	2	--	-	26	4
...RHOICOSPHENIA	44#	29	23	2	29	6	--	-
...FRAGILARIACEAE								
...FRAGILARIA	--	-	92	7	--	-	--	-
...SYNEDRA	--	-	34	3	14	3	--	-
...GOMPHONEMATAEAE								
...GOMPHONEIS	66#	43	--	-	--	-	--	-
...GOMPHONEMA	--	-	34	3	--	-	--	-
...NAVICULACEAE								
...NAVICULA	--	-	570#	42	14	3	--	-
...PINNULARIA	--	-	--	-	14	3	--	-
...NITZSCHIAEAE								
...NITZSCHIA	22	14	260#	19	--	-	13	2
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOMONADACEAE								
...CRYPTOMONAS	--	-	--	-	--	-	39	7
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...HORMOGONALES								
...OSCILLATORIACEAE								
...LYNGBYA	--	-	--	-	--	-	--	-
...OSCILLATORIA	--	-	--	-	--	-	--	-
...SCHIZOTHRIX	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
...EUGLENA	--	-	69	5	110#	24	190#	33

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

11458000 NAPA RIVER NEAR NAPA, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	JUL 10,79 1120	AUG 6,79 1315	SEP 18,79 1045			
TOTAL CELLS/ML	320	64	33000			
DIVERSITY: DIVISION	1.7	0.7	0.1			
..CLASS	1.7	0.7	0.1			
..ORDER	1.7	0.7	0.1			
...FAMILY	1.9	1.4	0.2			
....GENUS	1.9	1.4	0.4			
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
..CHLOROCOCCALES						
..CHLOROCOCCACEAE						
...CHLOROCOCCUM	--	-	--	-	*	0
...HYDRODICTYACEAE						
...PEDIASTRUM	--	-	--	-	--	-
...OOCYSTACEAE						
...ANKISTRODESMUS	--	-	--	-	*	0
...CHLORELLA	--	-	--	-	*	0
...SCENEDESMACEAE						
...SCENEDESMUS	26	8	--	-	--	-
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
...CHLAMYDOMONAS	--	-	13#	20	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
..CENTRALES						
..COSCINODISCAEAE						
...CYCLOTELLA	--	-	--	-	--	-
...MELOSIRA	--	-	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
...ACHNANTHES	13	4	--	-	--	-
...COCCONEIS	--	-	13#	20	*	0
...RHOICOSPHENIA	--	-	--	-	--	-
..FRAGILARIACEAE						
...FRAGILARIA	--	-	--	-	360	1
...SYNEDRA	--	-	--	-	--	-
..GOMPHONEMACEAE						
...GOMPHONEIS	--	-	--	-	--	-
...GOMPHONEMA	--	-	--	-	--	-
..NAVICULACEAE						
...NAVICULA	13	4	--	-	*	0
...PINNULARIA	--	-	--	-	--	-
..NITZSCHIACEAE						
...NITZSCHIA	26	8	39#	60	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOMONADACEAE						
...CRYPTOMONAS	39	12	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
..HORMOGONALES						
...OSCILLATORIAEAE						
...LYNGBYA			--	-	1200	4
...OSCILLATORIA	190#	60	--	-	--	-
...SCHIZOTHRIX	--	-	--	-	31000#	95
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
...EUGLENA	13	4	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

11458000 NAPA RIVER NEAR NAPA, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PERIPHYTON

DATE	TIME	LENGTH OF EXPOSURE (DAYS)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SO M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
NOV 16...	1245	27	1.02	.472	.800	.830	--
MAR 20...	1145	36	1.34	.950	10.9	2.48	--
JUN 12...	1140	27	10.4	6.90	22.7	2.75	66.1
JUL 10...	1120	28	3.07	2.52	23.6	7.70	23.3
AUG 06...	1315	27	4.65	2.76	7.01	2.31	270

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	449	438	446	475	466	472	447	439	444	476	470	472
2	452	439	449	473	466	472	448	442	445	475	470	473
3	455	444	451	476	467	472	445	439	442	476	471	473
4	458	445	453	474	467	471	446	440	444	472	465	470
5	457	452	454	474	470	473	447	441	444	470	466	469
6	458	451	454	474	470	472	449	442	446	473	465	470
7	456	450	453	475	470	472	450	445	448	479	463	472
8	457	448	454	477	468	473	449	444	448	468	206	357
9	464	453	457	477	469	473	448	443	446	385	294	345
10	459	452	456	482	469	474	447	442	446	456	299	415
11	459	453	456	478	471	475	446	437	443	264	100	155
12	462	458	459	476	465	471	447	436	441	216	160	202
13	463	457	460	474	470	472	446	440	443	227	217	221
14	464	460	462	470	461	464	449	441	445	230	150	209
15	465	460	463	466	462	463	450	442	447	148	106	125
16	466	461	464	464	454	460	451	446	449	214	150	185
17	---	---	---	457	449	453	451	437	445	238	215	228
18	---	---	---	460	454	457	440	428	434	259	238	248
19	---	---	---	459	445	453	437	429	432	273	259	264
20	---	---	---	450	442	445	447	437	441	284	273	277
21	472	461	467	443	422	433	457	442	449	296	284	289
22	472	468	471	434	419	427	460	449	455	304	296	299
23	472	453	467	435	421	431	463	452	456	308	300	304
24	464	445	451	438	430	434	463	455	459	315	305	310
25	473	464	469	443	433	438	464	455	460	321	307	315
26	473	467	470	444	438	441	465	456	461	324	312	319
27	473	467	471	445	439	442	463	459	461	325	315	319
28	474	467	471	444	438	442	473	462	468	321	316	319
29	472	467	470	445	439	442	478	467	472	322	318	319
30	474	468	471	446	436	441	477	466	473	321	302	313
31	475	470	473	---	---	---	475	469	472	304	285	297
MONTH	475	438	461	482	419	457	478	428	450	479	100	320

NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. THAN .062 MM	SED. SUSP. SIEVE DIAM. THAN .125 MM	SED. SUSP. SIEVE DIAM. THAN .250 MM	SED. SUSP. SIEVE DIAM. THAN .500 MM	SED. SUSP. SIEVE DIAM. THAN 1.00 MM	SED. SUSP. SIEVE DIAM. THAN 2.00 MM
OCT 20...	1205	15.0	2.8	7	.05	76	--	--	--	--	--
NOV 16...	1215	9.0	4.4	8	.10	53	--	--	--	--	--
DEC 13...	1145	7.0	5.4	8	.11	74	--	--	--	--	--
JAN 09...	1200	10.5	65	53	11	95	98	100	--	--	--
FEB 12...	1240	12.0	40	7	.76	35	49	69	86	90	100
MAR 20...	1130	14.0	131	6	2.1	74	--	--	--	--	--
APR 17...	1115	15.0	87	47	11	42	--	--	--	--	--
MAY 16...	1140	17.5	48	7	.93	79	--	--	--	--	--
JUN 12...	1120	20.0	12	5	.15	99	--	--	--	--	--
JUL 10...	1120	21.0	6.4	4	.07	94	--	--	--	--	--
AUG 06...	1315	20.0	4.8	3	.04	90	--	--	--	--	--
SEP 18...	1240	20.0	2.3	4	.03	85	--	--	--	--	--

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 (4.8 km) northwest of town of Napa.

DRAINAGE AREA.--17.3 mi² (44.8 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 37.68 ft (11.485 m) National Geodetic Vertical Datum of 1929 (levels by county of Napa).

REMARKS.--Records good. Flow regulated by Milliken Reservoir, capacity, 2,000 acre-ft (2.47 km³) and by several small lakes and diversion dams on the Silverado Golf Course; diversions above station for irrigation of about 500 acres (2.02 km²).

AVERAGE DISCHARGE.--9 years, 17.4 ft³/s (0.493 m³/s), 12,610 acre-ft/yr (15.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,870 ft³/s (81.3 m³/s), revised, Jan. 16, 1973, gage height, 8.38 ft (2.554 m), from rating curve extended above 1,100 ft³/s (31.2 m³/s) on basis of slope-area measurement at gage height 9.36 ft (2.853 m) for flood of Feb. 19, 1980; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17 m³/s) and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 11	0715	*1460	41.3	5.62	1.713
Feb. 20	1630	728	20.6	3.98	1.213

Minimum daily discharge, no flow several days.

REVISIONS.--Peak discharges and annual maximum (*) for water years 1971 and 1973-75 and revised daily discharges, in cubic feet per second, for high-water periods in these years are given below. These figures supersede those published in the reports for 1971 and 1973-75.

Water Year	Date	Time	Discharge		Gage height	
			(ft ³ /s)	(m ³ /s)	(ft)	(m)
1971	Dec. 3, 1970	2400	*1920	54.4	5.68	1.731
1973	Nov. 14, 1972	0200	1230	34.8	4.16	1.268
	Jan. 9, 1973	1030	1150	32.6	4.00	1.219
	12	1200	2130	60.3	6.23	1.899
	16	0900	*2870	81.3	8.38	2.554
1974	Nov. 17, 1973	1400	1340	37.9	4.36	1.329
	Dec. 1	0030	884	25.0	3.64	1.109
	Jan. 16, 1974	1430	857	24.3	3.60	1.097
	Mar. 1	Unknown	1370	38.8	4.43	1.350
	30	0230	*1730	49.0	5.23	1.594
	Apr. 1	1115	1170	33.1	4.04	1.231
1975	Feb. 9, 1975	0230	814	23.1	4.19	1.277
	12	2300	2330	66.0	7.51	2.289
	Mar. 21	1800	*2500	70.8	7.89	2.405
	25	0300	761	21.6	4.06	1.237
Dec. 3, 1970	399	Jan. 18, 1973	883	Feb. 4, 1975	123	
4	1030	Nov. 17	561	8	167	
Nov. 14, 1972	252	Jan. 14, 1974	164	9	450	
Jan. 9, 1973	514	Mar. 30	762	12	580	
11	656	Apr. 1	556	13	796	
12	1450	Jan. 17, 1975	8.8	Mar. 21	469	
16	1170	Feb. 1	142	22	342	
17	315			24	124	
				25	332	

MONTH	TOTAL	MEAN	MAX	MIN	ACRE-FEET
December 1970	3745	121	1030	23	7430
WTR YR 1971	6755.24	18.5	1030	.44	13400
November 1972	715.6	23.9	252	4.8	1420
CAL YR 1972	2295.09	6.27	252	0	4550
January 1973	7130.4	230	1450	5.7	14140
WTR YR 1973	13016.61	35.7	1450	0	25820
November 1973	2127.86	70.9	561	.02	4220
CAL YR 1973	15376.45	42.1	1450	0	30500
January 1974	2837	91.5	473	11	5630
March	3185	103	762	14	6320
April	1535	51.2	556	8.0	3040
WTR YR 1974	12450.86	34.1	762	0	24700
CAL YR 1974	8625.71	23.6	762	.14	17110
January 1975	156.2	5.04	50	1.2	310
February	3426.7	122	796	9.7	6800
March	2649.7	85.5	469	9.7	5260
WTR YR 1975	6907.14	18.9	796	0	13700
CAL YR 1975	6888.04	18.9	796	0	13660

REVISIONS.--Revised figures of discharge for the water year 1978, superseding those published in the report for 1978 are given herein.

EXTREMES FOR WATER YEAR 1978.--Peak discharges above base of 600 ft³/s (17 m³/s) and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Nov. 21	2100	2370	67.1	7.61	2.320	Jan. 9	0845	1190	33.7	5.06	1.542
Dec. 14	2400	653	18.5	3.79	1.155	Jan. 16	1030	*2750	77.9	8.47	2.582
Dec. 22	2345	603	17.1	3.68	1.122	Feb. 7	1100	1200	34.0	5.07	1.545
Jan. 5	0900	1500	42.5	5.72	1.743	Mar. 5	0500	728	20.6	3.98	1.213

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	3.3	18	3.5	10	27	9.4	1.1	.73	.20	.16
2		0	1.9	18	6.2	31	23	3.3	1.7	.64	.26	.19
3		0	1.9	27	5.2	62	21	2.7	1.3	.71	.11	.06
4		0	1.9	68	3.4	459	37	2.3	1.5	.75	.16	0
5		0	1.7	703	34	471	22	2.5	1.7	.71	.18	.06
6		.36	1.7	285	128	138	88	2.6	1.7	.53	.02	.01
7		.02	2.0	87	384	80	44	2.4	1.7	.13	.03	0
8		0	1.7	66	242	131	31	2.4	1.7	.23	.31	0
9		0	1.7	503	216	133	23	2.0	1.6	.66	.16	.40
10		0	1.6	142	77	75	21	1.9	1.5	.66	.10	1.1
11		0	1.9	71	51	67	20	1.3	1.6	.97	.44	.49
12		.41	2.1	127	168	57	20	2.8	1.7	.66	.35	.71
13		1.4	2.0	139	107	36	19	.50	2.0	.58	.27	.72
14		.59	.88	715	74	28	19	.53	2.3	.54	.23	.49
15		.52	167	576	57	22	46	.51	1.3	.40	.11	.47
16		.54	26	1200	46	21	29	.45	1.5	.38	.41	.69
17		.70	80	413	34	16	23	.76	1.2	.34	.48	.85
18		.41	28	185	27	13	23	.78	1.5	.71	.09	.86
19		.40	17	197	22	10	23	.63	1.7	.45	0	.84
20		.42	12	75	19	8.6	23	.51	1.8	.25	0	1.1
21		503	12	54	16	8.0	23	.60	1.2	.21	0	1.2
22		118	86	38	13	15	19	.64	.89	.35	0	1.3
23		15	122	27	10	12	16	.92	.54	.41	0	0
24		8.3	32	18	8.1	9.4	12	.64	.42	1.2	0	0
25		5.3	20	17	6.7	6.8	21	.45	.42	1.4	.21	0
26		3.8	19	15	5.3	5.9	23	.54	.43	1.3	.21	0
27		3.0	21	13	4.6	5.2	17	.57	.45	.94	0	0
28		2.6	24	9.7	4.2	3.1	12	.51	.53	.30	0	0
29		2.1	22	7.4	---	3.1	8.6	.49	.40	.34	.22	0
30		2.3	20	5.7	---	3.7	6.6	.35	.74	.06	.26	0
31		---	25	3.8	---	20	---	.49	---	.32	.09	---
TOTAL	0	669.17	846.4	5823.6	1772.2	1960.8	740.2	46.47	38.12	17.86	4.90	11.70
MEAN	0	22.3	27.3	188	63.3	63.3	24.7	1.50	1.27	.58	.16	.39
MAX	0	503	167	1200	384	471	88	9.4	2.3	1.4	.48	1.3
MIN	0	0	1.6	3.8	3.4	3.1	6.6	.35	.40	.06	0	0
AC-FT	0	1330	1680	11550	3520	3890	1470	92	76	35	9.7	23
CAL YR 1977	TOTAL	1704.71	MEAN	4.67	MAX	503	MIN	0	AC-FT	3380		
WTR YR 1978	TOTAL	11931.42	MEAN	32.7	MAX	1200	MIN	0	AC-FT	23670		

11458100 MILLIKEN CREEK NEAR NAPA, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	.64	.54	.63	9.1	77	4.2	.72	.12	.53	1.2	.35
2	.56	.58	.52	.83	6.1	43	3.6	1.8	0	.60	1.6	.14
3	.62	.89	.47	.78	4.9	37	3.6	2.8	0	.76	.96	.03
4	.66	.92	.51	.85	6.6	30	3.9	1.7	0	.16	.88	0
5	.82	.85	.73	.80	3.7	23	4.4	.35	.07	.14	.80	0
6	.25	1.1	1.9	.72	3.4	19	5.4	4.3	.34	.55	.75	.02
7	.34	.70	1.8	1.5	4.4	16	3.9	9.3	.21	.01	2.6	.14
8	1.0	.59	1.7	32	4.4	13	3.4	8.5	.19	0	4.3	0
9	1.7	.51	2.0	16	4.3	12	3.3	6.4	1.2	0	11	0
10	3.8	.46	1.9	20	3.9	10	3.9	4.6	.14	.14	2.6	0
11	7.2	.27	1.9	549	3.9	8.3	4.2	3.7	.43	.32	1.8	0
12	3.7	.57	2.0	37	3.8	7.4	4.2	2.8	.48	1.2	.70	0
13	3.3	.53	2.1	18	91	5.9	4.1	2.3	.33	1.8	0	.70
14	1.6	.33	2.0	112	97	5.6	3.6	1.8	.20	1.6	0	.55
15	1.5	.28	1.3	191	70	6.6	3.2	1.7	.21	1.3	0	.43
16	2.4	.28	1.1	40	175	7.5	3.2	1.7	.58	1.4	0	.51
17	1.5	1.3	2.1	21	66	6.8	2.7	.99	.63	1.3	.04	.75
18	2.6	.45	2.3	18	104	5.7	1.7	.73	.02	1.4	1.3	1.1
19	1.5	1.7	1.1	12	68	5.4	1.9	.64	0	1.3	.10	.66
20	1.5	3.6	1.2	9.1	231	5.2	2.4	.57	.31	1.7	.03	.72
21	.92	2.6	1.2	7.4	234	5.4	2.5	.26	.48	3.1	.77	.67
22	.54	1.7	1.5	5.8	210	5.0	2.6	.72	.64	2.1	1.0	1.2
23	.51	1.5	1.4	4.7	107	4.3	4.4	.83	.30	1.2	0	2.0
24	.43	1.4	.67	3.7	66	4.2	3.1	.90	.38	1.1	0	.95
25	.45	1.4	.57	3.3	46	4.1	2.1	1.1	.20	.83	0	.58
26	.32	1.4	.62	2.9	55	4.5	3.2	1.8	.28	1.1	0	.56
27	.51	1.3	.63	2.6	34	8.4	2.8	1.0	.89	1.3	.02	.38
28	.49	3.2	.66	2.5	62	7.7	1.3	.08	1.6	1.2	.41	.46
29	.41	1.0	.65	2.2	---	5.2	.94	1.4	.85	.73	.32	.92
30	.45	.75	.62	11	---	4.6	.77	.67	.62	1.2	.20	1.2
31	.67	---	.64	16	---	4.3	---	.26	---	2.1	.13	---
TOTAL	42.42	32.80	38.33	1143.31	1774.5	402.1	94.51	66.42	11.70	32.17	33.51	15.02
MEAN	1.37	1.09	1.24	36.9	63.4	13.0	3.15	2.14	.39	1.04	1.08	.50
MAX	7.2	3.6	2.3	549	234	77	5.4	9.3	1.6	3.1	11	2.0
MIN	.17	.27	.47	.63	3.4	4.1	.77	.08	0	0	0	0
AC-FT	84	65	76	2270	3520	798	187	132	23	64	66	30
CAL YR 1978	TOTAL	10529.40	MEAN 28.8	MAX 1200	MIN 0	AC-FT 20890						
WTR YR 1979	TOTAL	3686.79	MEAN 10.1	MAX 549	MIN 0	AC-FT 7310						

NAPA RIVER BAGIN

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 (46 m) upstream from bridge on State Highway 29 in town of Napa, 0.6 mi (1.0 km) downstream from confluence of Redwood and Browns Creeks.

DRAINAGE AREA.--14.9 mi² (38.6 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 32.60 ft (9.936 m) National Geodetic Vertical Datum of 1929 (levels by county of Napa).

REMARKS.--Records good. No regulation; small diversion above station for domestic use.

AVERAGE DISCHARGE.--9 years, 15.2 ft³/s (0.430 m³/s), 11,010 acre-ft/yr (13.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,660 ft³/s (75.3 m³/s) Jan. 16, 1978, gage height, 11.16 ft (3.402 m), from rating curve extended above 1,100 ft³/s (31.2 m³/s); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17 m³/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 11	0730	*2100	59.5	10.67	3.252	Feb. 20	1530	812	23.0	6.03	1.838
Jan. 14	2345	1450	41.1	8.48	2.585						

Minimum daily discharge, no flow Sept. 20-22, 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.01	1.3	.15	5.5	77	9.0	3.4	.29	.23	.06	.02
2	.02	.01	.23	.16	4.8	49	8.3	3.0	.30	.22	.07	.02
3	.02	.01	.92	.43	4.7	43	7.8	2.6	.33	.22	.07	.02
4	.02	.01	6.7	2.9	5.3	36	7.5	2.6	.30	.23	.07	.01
5	.02	.02	1.7	2.0	4.9	30	7.1	5.1	.30	.21	.07	.01
6	.02	.02	.25	.76	4.7	24	9.0	6.8	.29	.18	.07	.01
7	.05	.02	.14	11	4.1	20	6.7	7.6	.22	.16	.06	.01
8	.06	.02	.12	65	3.6	17	6.3	5.3	.16	.12	.04	.01
9	.06	.02	.12	20	3.2	14	5.7	4.1	.17	.12	.06	.01
10	.06	.02	.12	52	2.8	12	4.9	3.5	.18	.12	.06	.01
11	.06	.02	.12	821	2.8	11	4.8	3.1	.19	.11	.05	.02
12	.04	7.5	.12	83	2.8	9.9	4.9	2.9	.18	.11	.04	.02
13	.02	2.2	.13	44	209	9.1	4.8	3.8	1.7	.14	.04	.02
14	.02	.44	.21	310	99	8.1	4.5	3.0	.60	.16	.02	.02
15	.02	.34	1.2	355	41	7.9	4.3	2.4	.23	.11	.02	.02
16	.03	.31	.86	74	111	9.7	4.6	1.8	.23	.11	.02	.03
17	.03	.30	11	43	46	8.4	4.1	1.3	.21	.09	.02	.02
18	.05	.30	9.0	31	91	7.4	3.2	1.2	.20	.09	.02	.02
19	.07	18	.53	22	53	8.3	2.8	1.3	.21	.10	.02	.01
20	.11	12	.28	16	203	6.8	3.2	1.3	.21	.11	.02	0
21	.12	3.7	.20	14	156	6.9	2.8	1.8	.21	.13	.02	0
22	.10	4.0	.16	12	137	5.5	3.2	2.6	.25	.12	.02	0
23	.08	.55	.16	9.6	101	5.0	14	1.8	.24	.09	.03	.01
24	.05	.24	.16	9.9	66	5.5	7.4	1.6	.21	.09	.03	.02
25	.06	.16	.16	7.5	54	4.6	7.4	1.4	.21	.08	.03	0
26	.06	.16	.16	6.4	62	7.4	12	.96	.21	.07	.03	0
27	.06	.16	.16	5.8	41	42	7.4	4.1	.22	.11	.03	.01
28	.06	.14	.19	5.7	84	25	4.9	1.2	.25	.11	.03	.01
29	.06	.14	.21	5.1	---	15	4.1	.67	.21	.10	.02	.01
30	.03	.16	.18	6.4	---	11	3.8	.43	.23	.08	.02	.01
31	.02	---	.15	6.6	---	9.5	---	.36	---	.07	.02	---
TOTAL	1.51	50.98	36.94	2042.40	1603.2	546.0	180.5	83.02	8.74	3.99	1.18	.38
MEAN	.049	1.70	1.19	65.9	57.3	17.6	6.02	2.68	.29	.13	.038	.013
MAX	.12	18	11	821	209	77	14	7.6	1.7	.23	.07	.03
MIN	.02	.01	.12	.15	2.8	4.6	2.8	.36	.16	.07	.02	0
AC-FT	3.0	101	73	4050	3180	1080	358	165	17	7.9	2.3	.8

CAL YR 1978 TOTAL 10564.98 MEAN 28.9 MAX 1010 MIN .01 AC-FT 20960
WTR YR 1979 TOTAL 4558.84 MEAN 12.5 MAX 821 MIN 0 AC-FT 9040

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 (46 m) downstream from bridge on State Highways 12 and 29 in Napa.

DRAINAGE AREA.--12.6 mi² (32.6 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 3.65 ft (1.113 m) National Geodetic Vertical Datum of 1929 (levels by county of Napa).

REMARKS.--Records good. No regulation; some small diversions above station for irrigation of about 30 acres (121,000 m²).

AVERAGE DISCHARGE.--8 years, 8.60 ft³/s (0.244 m³/s), 6,230 acre-ft/yr (7.68 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,370 ft³/s (38.8 m³/s), revised, Jan. 16, 1978, gage height, 5.03 ft (1.533 m), from rating curve extended above 560 ft³/s (15.9 m³/s) on basis of slope-area measurement at gage height 5.96 ft (1.817 m) for flood of Feb. 19, 1980; maximum gage height, 5.55 ft (1.692 m) Jan. 16, 1973 (affected by tide); no flow many days in 1977-79.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11 m³/s) and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 11	0800	*1580	44.7	5.32	1.622	Feb. 20	1500	491	13.9	3.69	1.125
Jan. 14	0900	522	14.8	3.75	1.143						

Minimum daily discharge, no flow several days.

REVISIONS.--Peak discharges and annual maximum (*) for water years 1973, 1975, and 1978 have been revised as shown in the following table. They supersede figures published in the reports for 1973, 1975 and 1978.

Water Year	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
1973	Nov. 14, 1972	0200	645	18.3	3.97	1.210
	Jan. 12, 1973	1200	851	24.1	4.30	1.311
	16	0700	*885	25.1	4.35	1.326
	18	0800	871	24.7	4.33	1.320
1975	Feb. 12, 1975	1845	766	21.7	4.17	1.271
	Mar. 8	0715	686	19.4	4.04	1.231
	21	1845	*1010	28.6	4.54	1.384
1978	Jan. 4, 1978	1430	549	15.5	3.80	1.152
	9	0715	680	19.3	4.03	1.228
	16	1030	*1370	38.8	5.03	1.533
	Feb. 8	2100	582	16.5	3.86	1.117

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.37	1.1	.60	26	69	6.1	.96	.05	.03	.06	.03
2	.24	.37	.90	.59	17	46	5.2	.44	.05	.02	.07	.05
3	.25	.37	.94	.85	11	39	5.5	1.0	.05	.01	.07	.05
4	.26	.38	.87	.93	9.2	33	4.4	.81	.05	.01	.06	.05
5	.27	.38	.84	.84	7.4	26	4.5	1.4	.05	0	.04	.11
6	.27	.37	.79	.77	6.6	18	9.3	1.3	.04	0	.03	.18
7	.29	.37	.74	2.3	6.0	13	6.5	1.2	.02	0	.04	.14
8	.29	.37	.74	39	5.5	10	4.7	.60	.01	0	.05	.15
9	.27	.38	.74	9.6	5.2	8.9	3.5	.64	0	0	.05	.17
10	.27	.38	.80	29	4.9	7.7	2.6	.69	.01	.01	.04	.11
11	.27	.37	.79	625	4.6	6.7	2.2	.39	.03	0	.05	.09
12	.28	4.3	.75	111	4.2	6.2	1.9	.36	.10	.01	.07	.11
13	.31	1.7	.87	52	97	5.3	2.0	.39	.11	.01	.08	.10
14	.31	1.6	.53	226	99	4.7	2.2	.43	.14	.03	.10	.05
15	.31	1.6	.53	243	58	5.1	1.9	.37	.17	.06	.14	.04
16	.33	1.6	.53	105	104	5.8	1.9	.23	.17	.08	.15	.04
17	.33	1.6	6.2	68	59	4.8	2.0	.43	.15	.07	.21	.03
18	.33	1.6	4.7	45	87	4.1	1.6	.42	.10	.08	.24	.03
19	.36	9.1	2.1	28	62	3.8	1.4	.40	.05	.07	.14	.03
20	.37	13	1.4	18	180	3.3	1.3	.37	.08	.09	.12	.04
21	.37	5.3	1.3	12	188	3.0	1.3	.35	.10	.13	.17	.04
22	.38	2.9	1.2	8.8	154	3.5	1.4	.29	.09	.14	.20	.04
23	.36	2.3	1.1	7.3	113	3.0	2.9	.14	.10	.12	.19	.04
24	.37	2.3	.95	6.7	72	2.6	1.7	.14	.10	.08	.20	.04
25	.37	1.8	.89	5.9	54	2.0	1.2	.21	.10	.05	.24	.04
26	.37	1.4	.82	5.0	59	3.2	2.6	.20	.09	.06	.23	.05
27	.38	1.1	.80	4.4	40	19	1.6	.17	.08	.04	.22	.04
28	.39	1.0	.74	4.2	64	16	1.2	.14	.02	.03	.02	.04
29	.39	.98	.72	3.8	---	12	1.0	.11	.02	.04	.01	.05
30	.38	1.0	.73	49	---	9.7	1.1	.08	.01	.05	.01	.05
31	.37	---	.63	43	---	8.0	---	.07	---	.06	.02	---
TOTAL	9.98	60.29	36.74	1755.58	1597.6	402.4	86.7	14.73	2.14	1.38	3.32	2.03
MEAN	.32	2.01	1.19	56.6	57.1	13.0	2.89	.48	.071	.045	.11	.068
MAX	.39	13	6.2	625	188	69	9.3	1.4	.17	.14	.24	.18
MIN	.24	.37	.53	.59	4.2	2.0	1.0	.07	0	0	.01	.03
AC-FT	20	120	73	3480	3170	798	172	29	4.2	2.7	6.6	4.0
CAL YR 1978	TOTAL	5398.21	MEAN	14.8	MAX	641	MIN	0	AC-FT	10710		
WTR YR 1979	TOTAL	3972.89	MEAN	10.9	MAX	625	MIN	0	AC-FT	7880		

11458500 SONOMA CREEK AT AGUA CALIENTE, CA

LOCATION.--Lat 38°19'24", long 122°29'36", in Agua Caliente Grant, Sonoma County, Hydrologic Unit 18050002, on left bank 20 ft (6 m) upstream from bridge, and 0.4 mi (0.6 km) west of Agua Caliente.

DRAINAGE AREA.--58.4 mi² (151.3 km²).

PERIOD OF RECORD.--February 1955 to current year. Prior to October 1966, published as "at Boyes Hot Springs."

GAGE.--Water-stage recorder. Datum of gage is 104.28 ft (31.785 m) National Geodetic Vertical Datum of 1929.

Prior to July 24, 1967, at site 0.8 mi (1.3 km) downstream at different datum. July 24, 1967, to Oct. 9, 1968, at site 130 ft (40 m) upstream at different datum.

REMARKS.--Records good. No regulation; some diversion above station for irrigation of about 2,000 acres (8.09 km²).

AVERAGE DISCHARGE.--24 years, 69.9 ft³/s (1.980 m³/s), 50,640 acre-ft/yr (62.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,880 ft³/s (251 m³/s) Dec. 22, 1955, gage height, 17.10 ft (5.212 m) site and datum then in use, from rating curve extended above 4,100 ft³/s (116 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,300 ft³/s (65 m³/s) and maximum (*) from rating curve extended above 1,500 ft³/s (42.5 m³/s):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 11	0745	*7120	202	13.67	4.167	Feb. 20	1430	2310	65.4	8.21	2.502
Jan. 14	2315	2710	76.7	8.80	2.682						

Minimum daily discharge, 0.29 ft³/s (0.008 m³/s) Sept. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	.82	1.1	1.9	28	295	75	18	4.8	1.9	.73	.61
2	.91	.93	1.2	1.9	23	185	66	19	4.8	2.0	.76	.60
3	.91	.91	1.2	1.9	20	163	59	16	4.8	2.2	.91	.68
4	.86	.89	.99	2.3	18	140	52	16	5.1	1.9	.98	.64
5	.85	.92	.94	2.1	17	116	49	32	5.3	1.9	1.0	.59
6	.91	.91	.90	1.9	15	97	47	30	4.9	2.1	1.1	.55
7	1.1	.91	1.1	3.6	14	86	43	31	4.3	1.8	.99	.42
8	1.1	.91	.96	54	13	75	40	24	3.8	1.6	.96	.44
9	.99	.87	.96	25	13	66	37	26	3.6	1.3	.94	.41
10	1.0	.81	1.1	58	12	59	33	21	2.8	1.8	.68	.43
11	.97	.83	1.1	2930	12	53	32	18	2.7	1.6	.71	.43
12	.91	1.0	1.0	248	11	50	31	17	2.8	1.5	.67	.36
13	.81	1.7	1.1	98	858	48	28	16	2.8	1.4	.65	.29
14	.78	1.4	1.1	910	421	42	27	15	2.8	1.2	.77	.29
15	1.0	1.2	1.0	1080	166	46	26	14	2.7	1.2	.75	.33
16	.90	1.2	.99	212	205	66	26	15	2.6	1.2	.76	.54
17	.84	1.2	3.5	124	127	64	26	14	2.1	1.1	.82	.38
18	.92	1.3	4.4	93	226	48	22	12	2.6	1.4	.67	.32
19	.92	1.5	2.5	69	151	45	20	12	3.0	1.1	.63	.39
20	.95	2.5	1.8	54	674	39	19	12	2.9	1.1	.55	.58
21	1.0	2.0	1.6	44	617	37	19	13	2.6	1.1	.61	.48
22	.95	1.3	1.5	39	553	35	18	13	2.8	1.1	.57	.44
23	.92	1.1	1.5	34	318	33	24	13	2.5	1.2	.59	.50
24	.88	1.0	1.6	31	198	31	33	12	2.3	.89	.66	.50
25	.82	.96	1.6	27	158	29	21	10	2.4	.50	.70	.58
26	.82	.94	1.6	21	193	37	27	9.6	2.6	.51	.69	.69
27	.91	.92	1.6	20	127	762	27	7.7	2.4	.94	.58	.78
28	.93	.92	1.7	19	336	213	22	7.2	2.5	1.0	.62	.68
29	.90	.92	1.7	17	---	136	19	6.8	2.1	.91	.59	.58
30	.82	.93	1.8	34	---	105	18	6.5	2.0	.96	.65	.64
31	.80	---	1.8	39	---	87	---	5.9	---	.81	.72	---
TOTAL	28.33	33.70	46.94	6295.6	5524	3288	986	482.7	95.4	41.22	23.01	15.15
MEAN	.91	1.12	1.51	203	197	106	32.9	15.6	3.18	1.33	.74	.51
MAX	1.1	2.5	4.4	2930	858	762	75	32	5.3	2.2	1.1	.78
MIN	.78	.81	.90	1.9	11	29	18	5.9	2.0	.50	.55	.29
AC-FT	56	67	93	12490	10960	6520	1960	957	189	82	46	30
CAL YR 1978	TOTAL	36049.09	MEAN	98.8	MAX	3430	MIN	.68	AC-FT	71500		
WTR YR 1979	TOTAL	16860.05	MEAN	46.2	MAX	2930	MIN	.29	AC-FT	33440		

PETALUMA RIVER BASIN

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11459300 SAN ANTONIO CREEK NEAR PETALUMA, CA

LOCATION.--Lat 38°10'57", long 122°36'55", in sec.22, T.4 N., R.7 W., Sonoma County, Hydrologic Unit 18050002, on left bank 0.8 mi (1.3 km) upstream from bridge on San Antonio Road, 3.6 mi (5.8 km) southeast of Petaluma.

DRAINAGE AREA.--28.9 mi² (74.9 km²).

PERIOD OF RECORD.--August 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record, Mar. 6 to Apr. 9, which are fair. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,140 ft³/s (88.9 m³/s) Jan. 14, 1978, gage height, 13.98 ft (4.261 m); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.5 m³/s) and maximum(*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 11	1130	1400	39.6	9.44	2.877	Feb. 18	830	422	12.0	6.35	1.935
Jan. 14	2315	*1770	50.1	10.43	3.179	Feb. 20	1515	770	21.8	7.58	2.310
Feb. 13	1300	582	16.5	6.93	2.112	Feb. 28	1915	337	9.54	6.05	1.844

Minimum daily discharge, no flow several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	12	89	8.8	1.9				
2				0	10	40	7.0	1.7				
3				0	8.4	35	6.4	1.6				
4				0	9.1	26	5.6	1.3				
5				0	7.9	20	5.4	2.9				
6				0	7.5	20	8.6	3.0				
7				0	7.7	19	7.5	2.5				
8				17	7.7	18	6.2	1.8				
9				12	7.5	17	5.7	1.8				
10				25	7.4	16	5.1	1.5				
11				508	7.4	14	4.9	1.3				
12				99	7.3	13	4.4	1.2				
13				45	204	12	4.2	1.1				
14				481	122	11	3.9	1.1				
15				615	48	14	3.5	.71				
16				124	124	23	3.6	.59				
17				64	42	20	3.6	.70				
18				42	151	15	2.9	.72				
19				28	68	12	2.5	1.6				
20				22	236	10	2.4	1.2				
21				18	209	9.0	2.4	.70				
22				16	193	7.5	2.4	.70				
23				14	113	6.6	6.9	.62				
24				13	55	6.2	3.2	.51				
25				11	46	6.0	2.7	.44				
26				9.7	84	15	3.3	.44				
27				9.0	33	76	3.1	.44				
28				8.9	95	25	2.3	.30				
29				8.2	---	14	2.0	.19				
30				18	---	12	1.9	0				
31		---		18	---	10	---	0	---			---
TOTAL	0	0	0	2225.8	1922.9	631.3	132.4	34.56	0	0	0	0
MEAN	0	0	0	71.8	68.7	20.4	4.41	1.11	0	0	0	0
MAX	0	0	0	615	236	89	8.8	3.0	0	0	0	0
MIN	0	0	0	0	7.3	6.0	1.9	0	0	0	0	0
AC-FT	0	0	0	4410	3810	1250	263	69	0	0	0	0
CAL YR 1978	TOTAL	13380.73	MEAN	36.7	MAX	1270	MIN	0	AC-FT	26540		
WTR YR 1979	TOTAL	4946.96	MEAN	13.6	MAX	615	MIN	0	AC-FT	9810		

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 (30 m) upstream from 7th Street Bridge.

DRAINAGE AREA.--17.6 mi² (45.6 km²).

PERIOD OF RECORD.--October 1946 to current year. Records of diversions for water years 1952-53, estimated. Prior to October 1966 published as "near Novato."

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m), from topographic map. Prior to Aug. 23, 1967, at site 0.6 mi (1.0 km) upstream at different datum.

REMARKS.--Records good. Flow regulated by Stafford Lake beginning Dec. 1, 1951, capacity, 4,500 acre-ft (5.55 hm³) since Oct. 18, 1954; contents, 2,360 acre-ft (2.91 hm³) Sept. 30, 1978, and 2,130 acre-ft (2.63 hm³) Sept. 30, 1979. Diversion from Stafford Lake for municipal water supply began Apr. 25, 1952, and amounted to 2,220 acre-ft (2.74 hm³) 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).--33 years, 12.7 ft³/s (0.360 m³/s), 9,200 acre-ft/yr (11.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft³/s (56.6 m³/s) Jan. 14, 1970, gage height, 11.01 ft (3.356 m); no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 498 ft³/s (14.1 m³/s) Jan. 11, gage height, 6.01 ft (1.832 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.50	.12	5.2	59	5.6	.88	.63	.23	.03	
2		0	.40	.15	4.5	38	4.8	.90	.44	.25	.02	
3		0	.35	.29	4.0	36	4.5	1.6	.50	.27	.06	
4		0	.35	.40	3.6	30	4.1	.76	.59	.24	.09	
5		0	.40	.31	3.2	26	4.1	3.0	.73	.20	.08	
6		0	.40	.24	3.2	22	5.6	1.1	.50	.20	.09	
7		0	.35	4.9	2.8	20	4.1	.95	.56	.17	.43	
8		0	.37	31	2.6	18	4.1	.73	.57	.17	.08	
9		0	.40	8.4	2.4	16	3.7	.69	.64	.17	.03	
10		0	.45	34	2.3	14	2.9	.70	.65	.18	0	
11		0	.45	175	2.2	13	3.0	.90	.63	.15	0	
12		.79	.45	22	2.5	11	2.5	1.1	.58	.12	0	
13		.29	.45	12	83	8.5	2.3	1.1	.58	.06	0	
14		.22	.40	135	31	7.0	2.1	1.2	.54	.10	0	
15		.12	.39	105	18	8.0	2.0	1.3	.54	.11	0	
16		.10	.46	23	43	13	2.3	1.3	.62	.12	.03	
17		.08	4.9	14	20	12	2.3	1.1	.82	.10	.03	
18		.07	3.0	10	34	9.9	1.8	1.0	.92	.12	.02	
19		2.3	.23	8.9	22	7.5	1.6	1.0	.48	.16	.02	
20		5.1	.15	5.6	77	5.6	1.6	1.1	.35	.15	.01	
21		.35	.15	4.5	94	4.2	1.6	1.1	.35	.14	.01	
22		3.2	.15	3.6	129	3.6	1.8	.99	.32	.13	.01	
23		.40	.12	2.8	87	3.2	4.8	1.0	.31	.11	0	
24		.27	.12	2.0	57	2.8	2.3	1.0	.30	.07	0	
25		.27	.12	1.6	48	2.8	1.6	.81	.32	.02	0	
26		.27	.12	1.1	53	15	4.1	.79	.33	0	.01	
27		.23	.12	.90	34	29	1.2	.87	.33	.01	0	
28		.27	.15	.90	50	13	.91	.90	.31	.07	0	
29		.23	.15	.75	---	9.8	.90	.78	.28	.08	0	
30		.27	.12	13	---	7.7	.89	.78	.23	.06	0	
31		---	.12	8.0	---	6.1	---	.79	---	.03	0	---
TOTAL	0	14.83	16.29	629.46	918.5	471.7	85.10	32.22	14.95	3.99	1.05	0
MEAN	0	.49	.53	20.3	32.8	15.2	2.84	1.04	.50	.13	.034	0
MAX	0	5.1	4.9	175	129	59	5.6	3.0	.92	.27	.43	0
MIN	0	0	.12	.12	2.2	2.8	.89	.69	.23	0	0	0
AC-FT	0	29	32	1250	1820	936	169	64	30	7.9	2.1	0
CAL YR 1978	TOTAL	8080.90	MEAN	22.1	MAX	1000	MIN	0	AC-FT	16030		
WTR YR 1979	TOTAL	2188.09	MEAN	5.99	MAX	175	MIN	0	AC-FT	4340		

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 (2.7 km) southwest of San Rafael, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--18.1 mi² (46.9 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 7.97 ft (2.429 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good except those for Nov. 13 to Dec. 16, which are fair. Flow regulated by Phoenix Lake 1.7 mi (2.7 km) upstream, capacity, 612 acre-ft (755,000 m³). Diversion on tributary above station by Marin Municipal Water District.

AVERAGE DISCHARGE.--28 years, 27.0 ft³/s (0.765 m³/s), 19,560 acre-ft/yr (24.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,620 ft³/s (103 m³/s) Dec. 22, 1955, gage height, 17.45 ft (5.319 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,430 ft³/s (40.5 m³/s) Feb. 13 (1145 hrs), gage height, 12.54 ft (3.822 m), no other peak above base of 1,000 ft³/s (28 m³/s); minimum daily, 0.03 ft³/s (0.001 m³/s) Oct. 14, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.07	.69	.61	9.5	58	9.3	4.6	1.7	.66	.23	.11
2	.06	.08	.62	.61	7.6	41	8.3	4.5	1.6	.71	.23	.13
3	.08	.10	.54	.99	6.5	37	7.5	4.3	1.9	.68	.24	.15
4	.09	.09	.51	1.3	6.1	30	7.0	4.2	2.0	.70	.20	.10
5	.07	.14	.53	.83	5.7	19	6.6	10	3.2	.70	.20	.11
6	.08	.18	.51	.56	5.4	16	9.2	8.8	1.4	.63	.19	.09
7	.09	.20	.49	7.3	5.2	16	6.4	8.1	1.3	.60	.19	.08
8	.09	.23	.50	100	5.0	22	5.8	5.9	1.3	.62	.20	.07
9	.08	.23	.51	29	4.9	21	5.4	5.1	1.2	.59	.20	.08
10	.10	.36	.51	46	4.9	20	5.1	4.3	1.1	.61	.20	.06
11	.09	.57	.52	401	4.8	16	5.3	3.9	1.1	.55	.19	.07
12	.10	3.4	.52	65	4.8	9.6	5.1	3.7	1.0	.47	.17	.05
13	.07	1.3	.51	18	475	11	5.0	3.4	1.1	.41	.17	.07
14	.03	.80	.51	434	210	9.5	5.0	3.0	1.1	.40	.20	.09
15	.07	.66	.53	268	93	9.2	4.8	2.9	1.1	.41	.20	.06
16	.05	.58	.60	70	131	20	14	4.0	1.2	.46	.24	.05
17	.10	.54	8.2	56	51	12	21	5.8	1.4	.41	.21	.06
18	.10	.50	5.3	22	81	7.6	7.2	2.8	1.4	.42	.20	.09
19	.11	6.2	.68	15	57	6.9	4.5	2.6	1.3	.40	.19	.09
20	.14	36	.57	11	225	6.3	4.7	2.5	1.3	.38	.17	.09
21	.08	36	.45	22	250	5.9	4.3	2.5	1.3	.37	.21	.10
22	.08	2.3	.44	18	249	5.5	4.5	2.4	1.3	.38	.16	.23
23	.07	1.1	.44	7.3	135	5.2	5.3	2.3	1.1	.35	.14	.10
24	.07	.70	.44	6.8	62	5.0	4.4	2.2	1.1	.32	.13	.10
25	.07	.54	.45	6.0	49	5.0	4.5	2.1	1.2	.31	.12	.21
26	.09	.45	.51	5.3	47	24	9.8	2.0	1.2	.31	.14	.22
27	.10	.42	.51	5.1	34	71	4.9	2.1	1.2	.35	.09	.17
28	.11	.41	.52	5.0	57	39	4.7	2.0	1.1	.35	.09	.15
29	.08	.43	.52	4.8	---	23	4.7	2.0	1.1	.31	.12	.11
30	.03	.48	.52	37	---	16	4.6	2.0	1.3	.25	.13	.11
31	.04	---	.82	23	---	11	---	1.9	---	.22	.09	---
TOTAL	2.48	95.06	28.97	1687.50	2276.4	598.7	198.9	117.9	40.6	14.33	5.44	3.20
MEAN	.080	3.17	.93	54.4	81.3	19.3	6.63	3.80	1.35	.46	.18	.11
MAX	.14	.36	8.2	434	475	71	21	10	3.2	.71	.24	.23
MIN	.03	.07	.44	.56	4.8	5.0	4.3	1.9	1.0	.22	.09	.05
AC-FT	4.9	189	57	3350	4520	1190	395	234	81	28	11	6.3
CAL YR 1978 TOTAL	12923.47		MEAN 35.4		MAX 1350	MIN .03	AC-FT 25630					
WTR YR 1979 TOTAL	5069.48		MEAN 13.9		MAX 475	MIN .03	AC-FT 10060					

11460000 CORTE MADERA CREEK AT ROSS, CA--Continued

SUSPENDED--SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	.06	2		.07	1	0	.69	2	0
2	.06	3		.08	1	0	.62	2	0
3	.08	3		.10	1	0	.54	2	0
4	.09	2		.09	1	0	.51	2	0
5	.07	1		.14	2	0	.53	2	0
6	.08	2		.18	2	0	.51	2	0
7	.09	3		.20	2	0	.49	2	0
8	.09	4		.23	2	0	.50	2	0
9	.08	3		.23	2	0	.51	2	0
10	.10	2		.36	3	0	.51	2	0
11	.09	1		.57	3	0	.52	2	0
12	.10	1		3.4	7	.18	.52	2	0
13	.07	1		1.3	5	.02	.51	2	0
14	.03	1		.80	3	.01	.51	2	0
15	.07	2		.66	2	0	.53	2	0
16	.05	2		.58	2	0	.60	2	0
17	.10	2		.54	2	0	8.2	15	.57
18	.10	2		.50	2	0	5.3	20	.38
19	.11	2		6.2	13	.41	.68	13	.02
20	.14	2		36	31	3.2	.57	11	.02
21	.08	2		36	18	1.9	.45	9	.01
22	.08	2		2.3	19	.14	.44	7	.01
23	.07	2		1.1	9	.03	.44	6	.01
24	.07	2		.70	4	.01	.44	5	.01
25	.07	2		.54	2	0	.45	4	0
26	.09	2		.45	2	0	.51	3	0
27	.10	2		.42	1	0	.51	2	0
28	.11	2		.41	1	0	.52	1	0
29	.08	2		.43	1	0	.52	1	0
30	.03	1		.48	1	0	.52	1	0
31	.04	1		---	---	---	.82	3	.01
TOTAL	2.48	---	0	95.06	---	5.90	28.97	---	1.04
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	.61	2	0	9.5	5	.13	58	22	3.7
2	.61	1	0	7.6	1	.02	41	10	1.1
3	.99	2	0	6.5	1	.02	37	8	.80
4	1.3	1	0	6.1	1	.02	30	7	.57
5	.83	1	0	5.7	1	.02	19	6	.31
6	.56	1	0	5.4	1	.02	16	5	.22
7	7.3	10	.50	5.2	1	.01	16	6	.26
8	100	100	58	5.0	1	.01	22	19	1.1
9	29	17	1.6	4.9	1	.01	21	14	.79
10	46	41	24	4.9	1	.01	20	12	.65
11	401	408	582	4.8	1	.01	16	10	.43
12	65	22	4.9	4.8	1	.01	9.6	8	.21
13	18	6	.29	475	671	1560	11	7	.21
14	434	581	957	210	99	73	9.5	6	.15
15	268	191	196	93	37	10	9.2	6	.15
16	70	18	3.6	131	56	25	20	12	1.1
17	56	11	1.5	51	7	.99	12	8	.33
18	22	9	.54	81	66	19	7.6	3	.06
19	15	5	.20	57	16	2.5	6.9	2	.04
20	11	3	.09	225	211	234	6.3	1	.02
21	22	15	1.3	250	170	135	5.9	1	.02
22	18	19	1.1	249	124	114	5.5	1	.01
23	7.3	9	.18	135	13	5.5	5.2	1	.01
24	6.8	5	.09	62	17	2.8	5.0	1	.01
25	6.0	3	.05	49	20	2.8	5.0	1	.01
26	5.3	2	.03	47	15	2.1	24	14	4.4
27	5.1	2	.03	34	6	.55	71	41	9.0
28	5.0	2	.03	57	22	6.6	39	15	1.6
29	4.8	2	.03	---	---	---	23	7	.43
30	37	23	4.5	---	---	---	16	5	.22
31	23	21	1.4	---	---	---	11	4	.12
TOTAL	1687.50	---	1838.96	2276.4	---	2194.13	598.7	---	28.03

CORTE MADERA CREEK BASIN

11460000 CORTE MADERA CREEK AT ROSS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	9.3	3	.08	4.6	2	.02	1.7	2	.01			
2	8.3	2	.04	4.5	2	.02	1.6	2	.01			
3	7.5	2	.04	4.3	2	.02	1.9	3	.02			
4	7.0	2	.04	4.2	2	.02	2.0	3	.02			
5	6.6	2	.04	10	21	1.2	3.2	4	.03			
6	9.2	6	.17	8.8	12	.48	1.4	3	.01			
7	6.4	2	.03	8.1	11	.28	1.3	2	.01			
8	5.8	2	.03	5.9	3	.05	1.3	2	.01			
9	5.4	2	.03	5.1	2	.03	1.2	2	.01			
10	5.1	2	.03	4.3	2	.02	1.1	2	.01			
11	5.3	2	.03	3.9	2	.02	1.1	2	.01			
12	5.1	2	.03	3.7	2	.02	1.0	2	.01			
13	5.0	2	.03	3.4	5	.05	1.1	2	.01			
14	5.0	2	.03	3.0	10	.08	1.1	3	.01			
15	4.8	2	.03	2.9	5	.04	1.1	3	.01			
16	14	8	.30	4.0	2	.02	1.2	3	.01			
17	21	8	.45	5.8	3	.05	1.4	3	.01			
18	7.2	6	.12	2.8	2	.02	1.4	2	.01			
19	4.5	4	.05	2.6	2	.01	1.3	2	.01			
20	4.7	3	.04	2.5	2	.01	1.3	2	.01			
21	4.3	2	.02	2.5	2	.01	1.3	2	.01			
22	4.5	2	.02	2.4	1	.01	1.3	2	.01			
23	5.3	2	.03	2.3	1	.01	1.1	2	.01			
24	4.4	2	.02	2.2	1	.01	1.1	2	.01			
25	4.5	2	.02	2.1	2	.01	1.2	2	.01			
26	9.8	19	.79	2.0	2	.01	1.2	2	.01			
27	4.9	6	.08	2.1	2	.01	1.2	2	.01			
28	4.7	3	.04	2.0	3	.02	1.1	2	.01			
29	4.7	2	.03	2.0	3	.02	1.1	2	.01			
30	4.6	2	.02	2.0	3	.02	1.3	7	.02			
31	---	---	---	1.9	2	.01	---	---	---			
TOTAL	198.9	---	2.71	117.9	---	2.60	40.6	---	.35			
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	.66	6	.01	.23	3		.11	2				
2	.71	5	.01	.23	3		.13	2				
3	.68	4	.01	.24	3		.15	2				
4	.70	3	.01	.20	3		.10	2				
5	.70	3	.01	.20	3		.11	2				
6	.63	3	.01	.19	2		.09	2				
7	.60	2	0	.19	2		.08	2				
8	.62	2	0	.20	2		.07	2				
9	.59	2	0	.20	2		.08	2				
10	.61	2	0	.20	2		.06	2				
11	.55	2	0	.19	2		.07	2				
12	.47	3	0	.17	2		.05	2				
13	.41	3	0	.17	2		.07	2				
14	.40	3	0	.20	2		.09	2				
15	.41	3	0	.20	2		.06	2				
16	.46	3	0	.24	2		.05	2				
17	.41	2	0	.21	2		.06	2				
18	.42	2	0	.20	2		.09	2				
19	.40	2	0	.19	2		.09	2				
20	.38	2	0	.17	2		.09	2				
21	.37	2	0	.21	2		.10	2				
22	.38	3	0	.16	2		.23	7				
23	.35	3	0	.14	2		.10	4				
24	.32	3	0	.13	2		.10	3				
25	.31	3	0	.12	2		.21	5				
26	.31	3	0	.14	2		.22	4				
27	.35	3	0	.09	2		.17	3				
28	.35	3	0	.09	2		.15	2				
29	.31	3	0	.12	2		.11	2				
30	.25	3	0	.13	2		.11	2				
31	.22	3	0	.09	2		---	---				
TOTAL	14.33	---	.06	5.44	---	0	3.20	---	0			
YEAR	5069.48		4073.78									

11460000 CORTE MADERA CREEK AT ROSS, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1978	2.48	0.0	0	0
NOVEMBER ...	95.06	5.90	0	6
DECEMBER ...	28.97	1.04	0	1
JANUARY 1979	1687.50	1838.96	152	1960
FEBRUARY ...	2276.40	2194.13	161	3900
MARCH	598.70	28.03	0	28
APRIL	198.90	2.71	0	3
MAY	117.90	2.60	0	3
JUNE	40.60	0.35	0	0
JULY	14.33	0.06	0	0
AUGUST	5.44	0.0	0	0
SEPTEMBER ..	3.20	0.0	0	0
TOTAL	5069.48	4073.78	313	5901

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
JAN								
11...	1325	13.0	521	529	744	34	43	53
11...	1520	12.0	369	258	257	32	42	51
FEB								
13...	1250	11.5	1230	1700	5650	--	33	40
20...	1230	11.0	291	320	251	--	--	--
APR								
26...	1220	15.0	21	46	2.6	--	--	--
MAY								
05...	1145	15.5	40	105	11	--	--	--

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
JAN							
11...	66	77	85	91	97	100	--
11...	63	74	81	88	94	100	--
FEB							
13...	52	63	71	79	90	99	100
20...	--	--	64	75	89	99	100
APR							
26...	--	--	99	100	--	--	--
MAY							
05...	--	--	98	99	100	--	--

CORTE MADERA CREEK BASIN

11460000 CORTE MADERA CREEK AT ROSS, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED	BED	BED	BED
					MAT. SIEVE DIAM. % FINER THAN .062 MM	MAT. SIEVE DIAM. % FINER THAN .125 MM	MAT. SIEVE DIAM. % FINER THAN .250 MM	MAT. SIEVE DIAM. % FINER THAN .500 MM
JAN								
04...	1235	9.0	1	.97	0	2	8	19
04...	1240	9.0	1	.97	0	1	4	11
04...	1245	9.0	1	.97	--	0	1	4
04...	1250	9.0	1	.97	0	1	1	3
04...	1255	9.0	1	.97	0	1	2	4
SEP								
04...	1435	20.5	1	.09	1	2	13	32
04...	1440	20.5	1	.09	1	2	5	9
04...	1445	20.5	1	.09	1	1	3	13
04...	1450	20.5	1	.09	--	0	1	3
04...	1455	20.5	1	.09	0	1	1	4

DATE	BED						
	MAT. SIEVE DIAM. % FINER THAN 1.00 MM	MAT. SIEVE DIAM. % FINER THAN 2.00 MM	MAT. SIEVE DIAM. % FINER THAN 4.00 MM	MAT. SIEVE DIAM. % FINER THAN 8.00 MM	MAT. SIEVE DIAM. % FINER THAN 16.0 MM	MAT. SIEVE DIAM. % FINER THAN 32.0 MM	MAT. SIEVE DIAM. % FINER THAN 64.0 MM
JAN							
04...	25	30	37	48	71	100	--
04...	20	27	33	43	59	86	100
04...	12	20	28	38	54	92	100
04...	6	10	15	26	49	92	100
04...	8	16	26	40	57	92	100
SEP							
04...	40	46	55	66	83	100	--
04...	11	15	23	38	60	87	100
04...	24	30	37	48	65	84	100
04...	9	14	19	23	35	53	100
04...	10	16	21	28	35	53	100

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 (2 km) upstream from mouth.

DRAINAGE AREA.--4.69 mi² (12.15 km²).

PERIOD OF RECORD.--October 1965 to September 1973, May 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1.85 ft (0.564 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--12 years, 6.60 ft³/s (0.187 m³/s), 4,780 acre-ft/yr (5.89 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft³/s (33.4 m³/s) Jan. 21, 1970, gage height, 7.52 ft (2.292 m); no flow for many days in 1968, 1975-79.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 220 ft³/s (6.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 11	0200	*728	20.6	6.44	1.963
Feb. 13	unknown	367	10.4	5.46	1.664

Minimum daily discharge, no flow several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.03	.81	.26	2.1	39	2.9	1.7	.71	.54	.23	.16
2	.12	.10	.43	.25	1.9	19	2.7	1.6	.70	.56	.22	.19
3	.11	.18	.39	.25	1.7	14	2.6	1.6	.64	.52	.25	.18
4	.15	.16	.38	.42	1.6	11	2.5	1.6	.68	.52	.25	.15
5	.22	.14	.41	.38	1.6	9.6	2.5	4.8	.66	.51	.24	.12
6	.25	.24	.46	.38	1.6	8.5	3.6	3.6	.61	.48	.25	.12
7	.27	.25	.45	3.8	1.5	7.9	3.0	3.1	.52	.47	.25	.13
8	.28	.25	.36	21	1.5	7.1	2.8	2.7	.52	.45	.27	.13
9	.25	.19	.31	12	1.5	6.2	2.4	2.5	.49	.45	.27	.13
10	.23	.17	.28	79	1.4	5.5	2.3	2.4	.45	.43	.26	.13
11	.13	.17	.26	314	1.4	5.0	2.2	2.3	.45	.41	.23	.12
12	.01	1.7	.24	39	1.3	4.6	2.1	2.3	.45	.38	.23	.13
13	0	.54	.23	14	150	4.4	2.0	2.2	.43	.33	.20	.12
14	.02	.33	.21	68	70	4.1	2.0	2.1	.41	.32	.18	.12
15	.01	.31	.19	54	25	4.2	1.9	2.1	.41	.35	.18	.10
16	0	.29	1.0	28	30	5.9	2.5	2.0	.43	.35	.18	.10
17	0	.31	.96	16	40	4.9	2.0	1.9	.38	.35	.17	.11
18	0	.31	.80	9.9	30	3.9	1.9	1.8	.38	.35	.18	.11
19	.05	2.6	.70	7.3	20	3.6	1.8	1.6	.38	.36	.18	.11
20	.16	5.7	.60	5.7	110	3.4	1.7	1.5	.37	.32	.16	.11
21	.23	1.3	.51	4.6	115	3.2	1.7	1.5	.35	.32	.15	.11
22	.29	3.1	.42	4.0	120	3.1	1.7	1.5	.35	.33	.16	.11
23	.26	.97	.38	3.5	43	2.7	2.8	1.3	.36	.33	.14	.10
24	.26	.61	.36	2.8	20	2.6	1.9	1.2	.39	.31	.14	.11
25	.29	.50	.34	2.5	10	2.4	1.7	1.2	.43	.28	.14	.11
26	.31	.45	.33	2.2	20	7.5	4.8	1.2	.45	.28	.14	.16
27	.31	.42	.31	1.9	14	8.3	2.5	1.0	.46	.27	.14	.16
28	.33	.41	.29	1.8	27	6.0	2.1	.98	.48	.28	.13	.19
29	.32	.40	.28	1.7	---	4.5	1.9	.92	.48	.27	.14	.22
30	.24	.41	.27	5.2	---	3.5	1.8	.78	.50	.24	.16	.16
31	.10	---	.27	2.7	---	3.1	---	.71	---	.23	.13	---
TOTAL	5.28	22.54	13.23	706.54	863.1	218.7	70.3	57.69	14.32	11.59	5.95	4.00
MEAN	.17	.75	.43	22.8	30.8	7.05	2.34	1.86	.48	.37	.19	.13
MAX	.33	5.7	1.0	314	150	39	4.8	4.8	.71	.56	.27	.22
MIN	0	.03	.19	.25	1.3	2.4	1.7	.71	.35	.23	.13	.10
AC-FT	10	45	26	1400	1710	434	139	114	28	23	12	7.9
CAL YR 1978	TOTAL	2570.43	MEAN	7.04	MAX	190	MIN	0	AC-FT	5100		
WTR YR 1979	TOTAL	1993.24	MEAN	5.46	MAX	314	MIN	0	AC-FT	3950		

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 (91 m) downstream from small right-bank tributary, and 1.4 mi (2.3 km) northeast of town of Point Reyes Station.

DRAINAGE AREA.--81.7 mi² (211.6 km²).

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map.

REMARKS.--Records good. Flow regulated by Nicasio Reservoir, capacity, 22,450 acre-ft (27.7 hm³), Kent Lake, capacity, 16,680 acre-ft (20.6 hm³), and Alpine Lake, capacity, 8,890 acre-ft (11.0 hm³), all of which divert water for domestic and industrial use in the county of Marin.

AVERAGE DISCHARGE.--5 years, 47.2 ft³/s (1.337 m³/s), 34,200 acre-ft/yr (42.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,830 ft³/s (108 m³/s), revised, Mar. 21, 1975, gage height, 16.39 ft (4.996 m), from rating curve extended above 2,400 ft³/s (68.0 m³/s); minimum daily, 0.01 ft³/s (<0.001 m³/s) Sept. 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,990 ft³/s (56.4 m³/s) Feb. 14, gage height, 9.81 ft (2.990 m); minimum daily, 1.1 ft³/s (0.031 m³/s) Nov. 18.

REVISIONS.--The maximum discharges for water years 1975 and 1978 have been revised to 3,830 ft³/s (180 m³/s) Mar. 21, 1975, gage height, 16.39 ft (4.996 m) and 3,460 ft³/s (98 m³/s) Feb. 7, 1978, gage height 14.99 ft (4.569 m); revised daily discharges, in cubic feet per second, for high-water periods in these years are given below. These figures supersede those published in reports for 1975 and 1978.

Feb. 12, 1975.....	629	Nov. 21, 1977.....	610	Feb. 7, 1978.....	2030
13.....	1590	22.....	632	8.....	1440
14.....	759			9.....	1380
		Jan. 9, 1978.....	772	12.....	852
Mar. 7.....	765	14.....	1240		
21.....	1290	16.....	1220	Mar. 4.....	1350
22.....	2190	17.....	1370	5.....	1020
25.....	1220	18.....	935	9.....	1060
		19.....	1100		

MONTH	TOTAL	MEAN	MAX	MIN	ACRE- FEET
February 1975	7483	267	1590	34	14840
March	14073	454	2190	45	27910
WTR YR 1975	25037.6	68.6	2190	2.2	49660
CAL YR 1975	24687	67.6	2190	2.1	48970
November 1977	1438.26	47.9	632	.10	2850
CAL YR 1977	4390.57	12.0	632	.01	8710
January 1978	10911	352	1370	44	21640
February	11950	427	2030	42	23700
March	9114	294	1350	32	18080
WTR YR 1978	39678.92	109	2030	.02	78700

LAGUNITAS CREEK BASIN

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11460600 LAGUNITAS CREEK NEAR POINT REYES STATION, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.2	2.6	1.7	64	479	82	10	3.5	3.3	2.7	2.7
2	1.3	1.9	2.8	1.7	49	345	69	9.4	3.4	3.4	2.7	3.0
3	1.4	2.0	2.8	1.7	38	277	64	8.8	3.4	3.2	2.8	2.9
4	1.3	1.8	2.6	1.9	31	224	53	8.5	3.3	3.4	2.9	2.7
5	1.3	1.8	2.5	2.1	28	180	46	22	3.3	3.4	2.9	2.5
6	1.4	1.7	2.4	2.1	25	149	53	27	3.1	3.6	2.8	2.6
7	1.5	1.7	2.3	2.2	23	123	51	23	3.0	3.7	2.8	2.5
8	1.5	1.7	2.3	1.29	21	103	41	17	2.8	3.6	2.8	2.6
9	1.6	1.6	2.3	86	19	84	33	13	2.5	3.5	2.8	2.5
10	1.7	1.6	2.3	62	18	75	26	11	2.5	3.6	2.7	2.7
11	1.5	1.5	2.3	745	18	67	24	9.8	2.5	3.6	2.7	2.7
12	1.5	1.5	2.2	173	17	60	22	9.0	2.5	3.4	2.7	2.5
13	1.5	1.5	2.1	67	908	51	21	8.6	2.3	3.2	2.9	2.6
14	1.5	1.4	2.1	543	1170	43	20	8.3	2.6	3.3	2.9	2.7
15	1.6	1.4	2.1	1170	438	55	17	8.1	2.5	3.2	2.9	2.5
16	1.8	1.3	2.1	470	536	82	19	7.7	2.4	3.4	3.0	2.6
17	1.9	1.3	2.2	230	330	138	19	6.2	2.3	3.4	3.0	2.4
18	1.9	1.1	5.9	168	383	94	14	5.5	2.3	3.3	3.0	2.4
19	1.9	1.9	4.0	112	310	77	12	5.4	2.2	3.1	3.1	2.4
20	2.0	1.1	2.8	81	610	64	12	5.3	2.2	2.9	2.8	2.4
21	1.8	4.6	2.4	64	859	55	11	5.1	2.2	3.1	2.8	2.4
22	1.7	3.3	2.2	52	740	49	11	5.1	2.7	3.3	2.8	2.4
23	1.6	3.3	2.0	42	563	44	25	4.9	2.7	3.1	2.8	2.7
24	1.4	3.0	1.9	35	362	39	21	4.7	2.7	2.9	2.9	2.7
25	1.2	2.5	1.8	30	256	35	17	4.7	2.8	3.0	2.9	2.8
26	1.2	2.3	1.8	24	343	44	17	4.5	3.4	2.9	2.9	3.2
27	1.3	2.2	1.8	21	272	289	21	4.2	4.3	3.3	2.7	3.0
28	1.5	2.1	1.8	18	301	215	16	4.2	4.7	3.3	2.8	3.0
29	1.5	2.0	1.8	16	---	157	14	4.0	3.7	3.3	2.8	2.9
30	1.4	2.0	1.8	45	---	117	11	3.8	3.5	3.0	2.7	2.7
31	1.4	---	1.7	95	---	97	---	3.6	---	2.8	2.7	---
TOTAL	47.4	68.2	73.7	4491.4	8732	3911	862	272.4	87.3	101.5	87.7	79.7
MEAN	1.53	2.27	2.38	145	312	126	28.7	8.79	2.91	3.27	2.83	2.66
MAX	2.0	1.1	5.9	1170	1170	479	82	27	4.7	3.7	3.1	3.2
MIN	1.2	1.1	1.7	1.7	17	35	11	3.6	2.2	2.8	2.7	2.4
AC-FT	94	135	146	8910	17320	7760	1710	540	173	201	174	158
CAL YR 1978	TOTAL	36310.1	MEAN	99.5	MAX	2030	MIN	1.1	AC-FT	72020		
WTR YR 1979	TOTAL	18814.3	MEAN	51.5	MAX	1170	MIN	1.1	AC-FT	37320		

WALKER CREEK BASIN

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 (396 m) upstream from Chileno Creek, and 3.5 mi (5.6 km) southeast of Tomales.

DRAINAGE AREA.--37.1 mi² (96.1 km²).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 56.74 ft (17.294 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. No regulation; small diversions above station for irrigation of about 50 acres (202,000 m²) and stock watering.

AVERAGE DISCHARGE.--20 years, 42.8 ft³/s (1.212 m³/s), 31,010 acre-ft/yr (38.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,420 ft³/s (153 m³/s) Jan. 5, 1966, gage height, 22.23 ft (6.776 m); maximum gage height, 22.91 ft (6.983 m) Jan. 16, 1973; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,650 ft³/s (46.7 m³/s) Jan. 15, gage height, 13.38 ft (4.078 m), no peak above base of 2,000 ft³/s (57 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	1.4	.20	24	200	15	5.6	.82	.03	.01	
2		0	1.8	.20	19	91	14	5.5	.78	.03	.02	
3		8.4	1.2	.21	16	75	13	6.0	.45	.03	.02	
4		15	.84	.44	15	59	12	6.6	.32	.03	.02	
5		13	.77	.78	14	45	12	9.6	.27	.03	.01	
6		12	.66	.78	13	32	12	8.9	.19	.03	.02	
7		12	.58	1.1	13	26	11	6.8	.12	.03	.02	
8		11	.45	41	12	24	10	5.6	.11	.03	.02	
9		9.9	.38	36	12	21	9.6	5.0	.08	.02	.02	
10		6.0	.35	42	11	19	8.8	4.7	.06	.02	.02	
11		3.4	.55	690	8.1	17	8.5	4.4	.09	.02	.02	
12		3.0	1.1	300	7.0	16	10	4.0	.08	.01	.02	
13		2.8	.97	168	230	16	10	3.8	.07	.02	.02	
14		1.6	.79	425	347	15	10	3.5	.06	.01	.02	
15		.87	.67	776	264	16	10	3.1	.05	.01	.02	
16		.61	.57	343	219	19	9.9	3.0	.04	.01	.02	
17		.46	.78	267	90	19	7.3	2.4	.04	.01	.02	
18		.35	4.4	177	214	18	7.1	1.9	.03	.01	.02	
19		1.0	2.2	128	162	17	6.8	1.6	.03	0	.02	
20		3.3	.94	98	262	15	6.8	1.7	.03	0	.02	
21		2.0	.66	84	306	15	6.8	1.6	.03	0	.02	
22		1.8	.51	75	365	15	6.9	1.4	.03	.01	.02	
23		1.5	.42	67	309	14	7.9	1.4	.03	.01	.01	
24		1.0	.35	62	221	12	7.5	1.4	.03	.01	.01	
25		.79	.35	50	163	11	7.1	1.3	.05	.01	0	
26		.62	.27	31	174	13	8.3	1.3	.05	.01	0	
27		.55	.27	23	96	101	7.6	1.3	.05	.01	0	
28		.45	.31	18	103	52	6.2	1.2	.05	.01	0	
29		.43	.33	15	---	25	5.9	1.2	.04	0	0	
30		.44	.27	21	---	19	5.8	1.3	.03	0	0	
31		---	.27	30	---	17	---	1.1	---	0	0	---
TOTAL	0	114.27	25.41	3970.71	3689.1	1054	273.8	108.2	4.11	.45	.44	0
MEAN	0	3.81	.82	128	132	34.0	9.13	3.49	.14	.015	.014	0
MAX	0	15	4.4	776	365	200	15	9.6	.82	.03	.02	0
MIN	0	0	.27	.20	7.0	11	5.8	1.1	.03	0	0	0
AC-FT	0	227	50	7880	7320	2090	543	215	8.2	.9	.9	0
CAL YR 1978	TOTAL	19078.48	MEAN	52.3	MAX	1190	MIN	0	AC-FT	37840		
WTR YR 1979	TOTAL	9240.49	MEAN	25.3	MAX	776	MIN	0	AC-FT	18330		

RUSSIAN RIVER BASIN

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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 (6 m) downstream from bridge on Lake Mendocino Drive, 0.4 mi (0.6 km) upstream from East Fork, 0.6 mi (1.0 km) downstream from York Creek, and 3.2 mi (5.1 km) north of Ukiah.

DRAINAGE AREA.--100 mi² (259 km²).

PERIOD OF RECORD.--August 1911 to September 1913, October 1952 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 599.22 ft (182.642 m) National Geodetic Vertical Datum of 1929. Prior to October 1952, nonrecording gage at bridge 20 ft (6 m) upstream at different datum. Oct. 1, 1952, to Nov. 8, 1971, water-stage recorder at site 0.6 mi (1.0 km) upstream at different datums.

REMARKS.--Records good. No regulation. Diversions above station for irrigation of about 1,000 acres (4.05 km²).

AVERAGE DISCHARGE.--29 years, 175 ft³/s (4.956 m³/s), 126,800 acre-ft/yr (156 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft³/s (535 m³/s) Dec. 21, 1955, gage height, 19.0 ft (5.79 m) site and datum then in use; no flow at times in 1911, 1952-53, 1960-61, 1964-65, 1970-73, 1975-79.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,780 ft³/s (277 m³/s) Jan. 11 (0815 hrs), gage height, 18.44 ft (5.621 m), no other peak above base of 4,000 ft³/s (113 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.50	3.9	3.0	12	1150	128	35	8.3	2.7		
2	.20	.50	5.2	3.0	11	591	112	32	7.7	2.6		
3	.20	.54	4.2	3.0	9.9	674	95	29	6.9	1.9		
4	.24	.70	3.8	3.1	9.5	470	88	27	6.8	1.8		
5	.24	.70	3.5	3.3	9.0	359	79	65	7.2	2.0		
6	.24	.70	3.4	3.3	8.6	280	76	110	6.3	2.2		
7	.24	.70	3.3	3.9	8.0	227	68	319	6.5	1.4		
8	.24	.70	3.3	16	7.8	190	59	219	6.8	1.5		
9	.22	.80	3.2	32	7.4	159	53	144	7.2	1.3		
10	.20	1.5	3.1	609	7.8	135	46	108	6.2	1.2		
11	.23	1.0	3.1	4450	9.3	119	52	85	6.4	1.2		
12	.41	1.2	3.1	558	13	107	51	69	5.7	1.6		
13	.31	2.4	3.1	230	1360	96	46	58	5.3	1.1		
14	.20	2.1	3.1	875	798	87	41	50	3.4	1.1		
15	.17	1.8	3.1	853	956	99	39	42	3.1	.51		
16	.17	1.6	3.1	287	1170	106	39	36	4.2	.11		
17	.17	1.7	4.1	170	423	152	44	33	5.1	.48		
18	.14	1.5	4.6	128	1960	103	30	29	5.6	.18		
19	.14	4.1	4.1	85	729	95	24	28	4.3	.01		
20	.16	9.4	3.7	62	1240	86	24	22	3.8	.03		
21	.20	8.0	3.4	49	1490	81	23	22	3.3	0		
22	.28	4.6	3.4	39	1290	72	26	23	3.8	0		
23	.44	3.1	3.3	32	1110	64	48	22	3.7	0		
24	.44	2.6	3.3	27	626	59	61	20	3.0	0		
25	.44	2.5	3.3	23	441	55	47	17	3.1	0		
26	.39	2.4	3.3	19	630	61	51	14	3.0	0		
27	.39	2.4	3.3	17	369	1060	56	13	3.0	0		
28	.39	2.4	3.3	15	2280	457	45	12	3.2	0		
29	.48	2.5	3.1	14	---	271	40	11	3.3	0		
30	.50	2.6	3.1	13	---	197	38	10	3.0	0		
31	.50	---	3.0	14	---	152	---	9.4	---	0		---
TOTAL	8.77	67.24	107.8	8639.6	16985.3	7814	1629	1713.4	149.2	24.92	0	0
MEAN	.28	2.24	3.48	279	607	252	54.3	55.3	4.97	.80	0	0
MAX	.50	9.4	5.2	4450	2280	1150	128	319	8.3	2.7	0	0
MIN	.14	.50	3.0	3.0	7.4	55	23	9.4	3.0	0	0	0
AC-FT	17	133	214	17140	33690	15500	3230	3400	296	49	0	0
CAL YR 1978	TOTAL	80325.63	MEAN 220	MAX 4870	MIN 0	AC-FT 159300						
WTR YR 1979	TOTAL	37139.23	MEAN 102	MAX 4450	MIN 0	AC-FT 73670						

RUSSIAN RIVER BASIN

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA

LOCATION.--Lat 39°14'48", long 123°07'45", in NW¼NW¼ sec.18, T.16 N., R.11 W., Mendocino County, Hydrologic Unit 18010110, on left bank 0.1 mi (0.2 km) downstream from Cold Creek, and 3.9 mi (6.3 km) east of Calpella.

DRAINAGE AREA.--92.2 mi² (238.8 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 787.87 ft (240.143 m) National Geodetic Vertical Datum of 1929. Prior to May 28, 1957, at site 1.3 mi (2.1 km) downstream at different datum. May 28, 1957, to Apr. 5, 1966, at site 0.4 mi (0.6 km) downstream at same datum.

REMARKS.--Records fair. Flow greatly affected by diversion from Eel River through Potter Valley powerhouse (station 11471000). Diversion for irrigation of about 8,000 acres (32.4 km²) above station.

AVERAGE DISCHARGE.--38 years, 333 ft³/s (9.431 m³/s), 241,300 acre-ft/yr (298 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft³/s (530 m³/s) Dec. 22, 1964, gage height, 20.21 ft (6.160 m) site then in use; minimum daily, 2.0 ft³/s (0.057 m³/s) July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,300 ft³/s (93 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 11	0915	*7070	200	16.52	5.035	Feb. 20	1415	3730	106	12.71	3.874
Feb. 18	0545	4430	125	13.59	4.142	Feb. 28	1700	3980	113	13.03	3.972

Minimum daily discharge, 3.1 ft³/s (0.088 m³/s) Dec. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	299	282	333	3.3	328	1260	384	313	282	126	95	140
2	290	284	315	3.9	327	721	382	298	285	124	97	143
3	284	284	299	4.4	331	675	371	304	291	118	98	157
4	278	222	296	5.7	326	549	369	301	255	114	101	190
5	285	285	299	6.2	322	499	358	324	125	132	102	288
6	292	286	291	4.8	331	472	361	361	133	122	105	278
7	265	295	295	5.9	332	447	356	440	126	116	104	291
8	42	305	285	19	332	427	350	371	120	109	102	305
9	17	306	281	20	332	412	342	347	118	115	104	312
10	11	313	272	305	332	396	328	336	112	108	103	298
11	9.6	310	266	2940	332	386	332	329	121	110	97	302
12	8.8	315	261	587	356	382	330	328	123	102	104	294
13	7.5	312	257	391	1640	378	327	329	117	104	102	292
14	281	309	254	1130	882	376	313	327	113	106	103	285
15	285	303	221	886	1140	388	308	318	116	112	114	285
16	267	301	15	458	1520	404	304	322	115	109	117	274
17	270	306	8.7	367	658	407	300	313	125	104	114	286
18	281	307	6.1	348	2330	385	288	306	122	106	120	228
19	282	312	4.9	316	896	380	277	304	121	112	121	244
20	282	317	3.9	346	1600	373	275	313	123	105	124	277
21	290	315	3.9	340	1920	362	269	300	118	99	51	287
22	289	311	4.8	330	1560	356	280	298	107	100	107	284
23	287	333	4.5	339	1330	357	316	301	102	103	129	291
24	282	345	4.1	336	784	346	348	296	96	105	125	300
25	277	334	4.3	326	657	347	314	297	98	98	132	295
26	276	324	4.3	324	838	361	325	312	103	94	135	302
27	272	321	4.5	333	566	1340	338	307	113	98	138	304
28	278	330	4.8	328	2360	659	324	288	123	100	126	308
29	279	332	4.3	320	---	497	303	269	130	102	141	309
30	280	328	3.8	327	---	435	316	275	125	115	144	307
31	285	---	3.1	326	---	407	---	275	---	101	141	---
TOTAL	7131.9	9227	4310.0	11776.2	24662	15184	9788	9802	4158	3369	3496	8156
MEAN	230	308	139	380	881	490	326	316	139	109	113	272
MAX	299	345	333	2940	2360	1340	384	440	291	132	144	312
MIN	7.5	222	3.1	3.3	322	346	269	269	96	94	51	140
AC-FT	14150	18300	8550	23360	48920	30120	19410	19440	8250	6680	6930	16180
CAL YR 1978	TOTAL	151422.9	MEAN	415	MAX	4500	MIN	3.1	AC-FT	300300		
WTR YR 1979	TOTAL	111060.1	MEAN	304	MAX	2940	MIN	3.1	AC-FT	220300		

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951-58, 1964 to current year.

CHEMICAL ANALYSES: Water years 1951-58, 1973 to current year.

WATER TEMPERATURES: Water years 1964-79 (discontinued).

SEDIMENT RECORDS: Water years 1964, 1967-68.

TURBIDITY: Water years 1964-71.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: March 1964 to February 1979.

SEDIMENT RECORDS: March to September 1964, October 1966 to September 1968.

INSTRUMENTATION.--Temperature recorder since August 1965.

COOPERATION.--Chemical-quality data furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 29.0°C Aug. 11, 1971, July 1, 1972; minimum recorded, 2.0°C Dec. 12, 1972, Dec. 21, 22, 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 19.0°C Oct. 1-5; minimum for period recorded, 4.5°C Jan. 29, 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)
OCT							
20...	1015	310	181	7.5	16.0	3.8	--
NOV							
17...	1000	325	197	7.7	10.0	3.3	--
DEC							
01...	1030	350	228	--	10.0	3.8	--
26...	0920	--	311	7.3	4.0	1.0	--
JAN							
12...	1400	575	155	7.6	9.0	59	--
FEB							
02...	1015	326	193	7.5	4.0	27	--
15...	1100	497	151	7.3	8.0	5.0	--
MAR							
05...	0950	583	153	7.5	9.0	25	--
APR							
02...	1005	404	166	7.7	10.0	30	--
16...	1330	326	169	7.3	12.0	11	--
MAY							
01...	0930	332	161	7.4	13.0	8.6	--
18...	1035	321	159	7.4	17.0	5.0	--
JUN							
08...	1440	122	183	7.2	20.0	3.2	--
22...	1135	103	184	7.4	18.0	5.1	--
JUL							
09...	1045	113	172	7.2	18.0	3.2	--
10...	1400	95	--	--	20.0	--	10.4
20...	1045	106	175	6.7	21.0	2.8	8.8
AUG							
03...	1100	96	177	6.6	20.0	2.5	9.0
17...	1050	96	187	6.4	18.0	1.8	9.3
31...	1415	124	171	6.4	20.0	2.1	9.4
SEP							
14...	1100	251	158	6.4	19.0	5.4	10.0
28...	1310	277	176	6.2	19.0	2.7	9.0

RUSSIAN RIVER BASIN

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO FEBRUARY 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	18.0	13.5	12.5	9.5	8.0	---	---	6.0	5.5		
2	19.0	18.0	13.5	12.5	8.0	7.0	---	---	6.0	5.0		
3	19.0	18.0	13.5	12.5	7.5	7.0	---	---	6.0	5.0		
4	19.0	18.0	13.5	12.5	8.5	7.0	---	---	6.5	5.5		
5	19.0	18.0	14.0	13.0	8.5	7.0	---	---	7.0	6.0		
6	18.5	17.5	13.5	12.0	7.0	6.0	---	---	7.0	6.5		
7	18.0	17.0	13.5	12.5	6.0	5.0	---	---	7.5	6.5		
8	---	---	13.5	12.5	5.5	5.0	10.5	8.0	7.5	6.5		
9	---	---	13.5	12.5	6.5	5.5	11.0	8.0	8.0	7.0		
10	---	---	12.5	11.0	7.0	6.0	9.5	8.5	8.0	7.5		
11	---	---	10.5	10.0	7.5	6.5	10.5	9.0	8.0	7.5		
12	---	---	10.0	9.0	7.5	7.0	9.5	8.5	8.0	7.0		
13	---	---	10.5	9.5	7.0	6.0	8.5	7.0	---	---		
14	17.5	15.5	10.0	9.5	6.0	5.5	7.0	6.5	---	---		
15	18.0	17.0	10.0	8.5	---	---	7.0	6.5	---	---		
16	18.0	17.0	10.5	9.5	---	---	6.5	6.0	---	---		
17	17.5	16.5	10.5	9.5	---	---	6.5	5.5	---	---		
18	17.5	16.5	10.0	9.5	---	---	7.0	6.5	---	---		
19	17.5	16.5	10.5	10.0	---	---	7.0	6.5	---	---		
20	17.0	16.5	11.0	10.5	---	---	7.0	6.0	---	---		
21	17.0	16.5	10.5	10.0	---	---	7.5	6.5	---	---		
22	17.0	16.0	10.0	9.5	---	---	7.0	6.5	---	---		
23	16.5	15.5	9.5	8.5	---	---	7.0	6.0	---	---		
24	16.5	15.5	9.5	9.0	---	---	7.5	6.5	---	---		
25	16.0	15.5	9.0	8.5	---	---	7.0	5.5	---	---		
26	16.0	15.0	9.0	8.5	---	---	6.0	5.0	---	---		
27	15.5	15.0	8.5	8.0	---	---	6.0	5.0	---	---		
28	15.5	14.5	9.5	8.5	---	---	5.5	5.0	---	---		
29	15.5	14.5	10.0	9.5	---	---	5.0	4.5	---	---		
30	14.5	13.5	10.0	9.5	---	---	5.0	4.5	---	---		
31	13.5	13.0	---	---	---	---	6.0	5.0	---	---		
MONTH	19.0	13.0	14.0	8.0	9.5	5.0	11.0	4.5	8.0	5.0		

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 (9 m) upstream from Coyote Dam on East Fork Russian River, and 3.6 mi (5.8 km) northeast of Ukiah.

DRAINAGE AREA.--105 mi² (272 km²).

WATER-CONTENT RECORDS

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 (152 hm³) between elevations 637.0 ft (194.16 m), invert of outlet tunnel and 764.8 ft (233.11 m), spillway crest, NGVD. Storage affected by diversions from Bel River through Potter Valley powerhouse (station 11471000). Water is released down East Fork Russian River for irrigation and recreation use. Records given herein represent total contents.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 114,800 acre-ft (142 hm³) Jan. 24, 1970, elevation, 760.86 ft (231.910 m); minimum, 12,070 acre-ft (14.9 hm³) Nov. 4, 1977, elevation, 687.15 ft (209.443 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 92,000 acre-ft (113 hm³) May 22, elevation, 748.68 ft (228.198 m); minimum, 63,400 acre-ft (78.12 hm³) Sept. 22, 23, elevation, 732.38 ft (223.229 m).

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

637	0	665	2810	690	13800	730	59500
645	152	670	4290	695	17300	740	76400
650	432	675	6110	700	21200	750	94400
655	914	680	8280	710	31300	760	113000
660	1700	685	10800	720	44300	764.8	122100

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67800	70100	72600	69200	72800	79200	84500	91400	91100	86900	76100	64200
2	68000	70400	72600	69100	72900	77000	84800	91300	91100	86700	75600	64000
3	68200	70600	72500	69000	72900	75500	85200	91100	91000	86400	75300	63700
4	68400	70600	72500	68900	73000	75500	85600	90900	91100	86200	74600	63500
5	68500	70900	72500	68800	73000	75400	85900	90800	91000	85900	74200	63500
6	68700	71100	72500	68700	73000	75200	85400	90700	91000	85700	73800	63500
7	68800	71400	72400	68600	73100	74900	86600	90800	91000	85400	73400	63500
8	68500	71600	72400	68700	73200	74600	87000	90700	90900	85100	72900	63500
9	68200	71800	72400	68700	73200	74500	87300	90400	90800	84800	72500	63600
10	67800	72000	72400	69600	73200	74400	87600	89900	90700	84500	72100	63700
11	67300	72200	72400	75900	73300	74300	88000	89800	90600	84200	71700	63800
12	66900	72400	72400	74800	73600	74400	88400	90300	90500	83900	71200	63800
13	66500	72600	72500	73400	76200	74500	88800	90700	90400	83600	70800	63700
14	66700	72600	72500	75600	76000	74700	89100	91200	90200	83300	70400	63800
15	66800	72600	72600	75800	76100	74900	89500	91600	89900	82900	70000	63700
16	67000	72600	72200	74000	76900	75100	89800	91500	89700	82600	69700	63700
17	67100	72600	71800	73300	74900	75300	90100	90900	89400	82200	69300	63700
18	67300	72600	71600	73100	78800	75500	90100	90700	89300	81900	68900	63500
19	67500	72700	71500	73000	77300	75800	90300	91100	89100	81500	68500	63500
20	67600	72800	71400	72800	79900	76300	90500	91500	89000	81100	68200	63500
21	67900	72800	71400	72700	81900	76700	90800	91800	88800	80700	67800	63500
22	68100	72800	71200	72600	81500	77100	91000	92000	88700	80300	67400	63400
23	68300	72800	71000	72500	80500	77600	91300	91900	88500	79900	67000	63400
24	68500	72700	70900	72500	78400	78000	91500	91900	88400	79500	66700	63500
25	68700	72700	70700	72500	76500	78400	91600	91800	88200	79100	66300	63500
26	68900	72600	70500	72600	75500	79000	91600	91700	87900	78500	66000	63600
27	69100	72500	70200	72600	74000	81500	91600	91600	87600	78100	65700	63700
28	69400	72500	70000	72600	78700	82600	91600	91500	87500	77700	65400	63800
29	69600	72600	69900	72700	---	83200	91600	91400	87300	77300	65100	63900
30	69800	72600	69700	72700	---	83700	91500	91300	87100	77000	64800	64000
31	69900	---	69500	72800	---	84100	---	91200	---	76500	64500	---
MAX	69900	72800	72600	75900	81900	84100	91600	92000	91100	86900	76100	64200
MIN	66500	70100	69500	68600	72800	74300	84500	89800	87100	76500	64500	63400
(†)	736.28	737.80	735.99	737.93	741.30	744.34	748.41	748.23	745.97	740.05	733.09	732.78
(‡)	+2300	+2700	-3100	+3300	+5900	+5400	+7400	-300	-4100	-10600	-12000	-500

CAL YR 1978 † +28300
WTR YR 1979 ‡ -3600

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

RUSSIAN RIVER BASIN

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-68, 1977 to current year.

CHEMICAL ANALYSES: Water year 1977 to current year.

WATER TEMPERATURES: Water years 1966-68.

SEDIMENT RECORDS: Water years 1964-68.

TURBIDITY: Water years 1964-68.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1965 to September 1968.

SEDIMENT RECORDS: February 1964 to September 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (M) ^{1/}	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT TRANS- MISSION 1 METER PATH- LENGTH (%)	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
DEC									
05...	1100	.50	186	8.1	12.7	9.6	--	21	1.54
05...	1101	1.0	186	8.1	12.7	9.5	--	21	1.54
05...	1102	2.0	186	8.1	12.7	9.5	--	21	1.54
05...	1103	3.0	186	8.1	12.7	9.5	--	21	1.54
05...	1104	4.0	186	8.1	12.7	9.5	--	21	1.54
05...	1105	5.0	186	8.1	12.7	9.5	--	21	1.54
05...	1106	6.0	186	8.1	12.7	9.5	--	21	1.54
05...	1107	7.0	186	8.1	12.7	9.4	--	33	1.10
05...	1108	8.0	186	8.1	12.7	9.4	--	33	1.10
05...	1109	9.0	186	8.1	12.7	9.4	--	--	--
05...	1110	10.0	186	8.1	12.7	9.4	--	--	--
05...	1111	11.0	186	8.1	12.7	9.3	--	--	--
05...	1112	12.0	186	8.1	12.7	9.4	--	--	--
05...	1113	13.0	186	8.0	12.6	9.2	--	--	--
05...	1114	14.0	186	8.0	12.5	9.2	--	--	--
05...	1115	15.0	187	7.9	12.4	9.1	--	--	--
05...	1116	16.0	189	7.8	12.3	9.0	--	--	--
05...	1117	17.0	190	7.9	12.2	9.0	--	--	--
05...	1118	18.0	192	7.7	12.0	9.0	--	--	--
05...	1119	19.0	192	7.7	12.0	9.0	--	--	--
05...	1120	20.0	192	7.8	11.8	9.0	--	--	--
05...	1121	21.0	194	7.8	11.7	9.0	--	--	--
05...	1122	22.0	193	7.8	11.5	9.0	--	--	--
05...	1123	23.0	193	7.8	11.4	9.1	--	--	--
05...	1124	24.0	195	7.9	11.2	9.6	--	--	--
05...	1125	25.0	193	7.9	11.1	9.6	--	--	--
05...	1230	25.0	193	7.9	11.1	9.6	--	--	--
05...	1310	15.0	187	7.9	12.4	9.1	--	--	--
05...	1320	1.0	186	8.1	12.7	9.5	--	--	--
MAR									
29...	1044	.10	--	--	--	--	87	--	--
29...	1045	.50	162	8.3	13.0	10.6	32	<.01	10.00
29...	1046	1.0	162	8.2	12.9	10.6	9.2	<.01	10.47
29...	1047	1.5	--	--	--	--	3.2	--	--
29...	1048	2.0	164	7.9	12.5	10.1	1.5	<.01	9.77
29...	1050	3.0	165	7.9	12.1	10.0	--	<.01	9.59
29...	1051	4.0	164	7.8	12.0	9.9	--	<.01	9.63
29...	1052	5.0	162	7.8	11.9	9.9	--	<.01	9.72
29...	1053	6.0	161	7.8	11.8	9.9	--	<.01	9.46
29...	1054	7.0	163	7.8	11.5	9.9	--	<.01	9.81
29...	1055	8.0	163	7.7	11.4	9.8	--	<.01	10.31
29...	1056	9.0	164	7.7	10.9	9.7	--	<.01	11.60
29...	1057	10.0	165	7.6	10.7	9.6	--	<.01	13.53
29...	1058	11.0	167	7.5	9.7	9.5	--	<.01	15.65
29...	1059	12.0	162	7.4	9.3	9.5	--	<.01	16.07
29...	1100	14.0	158	7.4	9.0	9.6	--	<.01	17.37
29...	1101	16.0	157	7.4	8.9	9.6	--	<.01	17.07
29...	1102	18.0	154	7.4	8.8	9.6	--	<.01	17.37
29...	1103	20.0	154	7.4	8.8	9.6	--	<.01	18.04
29...	1104	22.0	152	7.4	8.8	9.5	--	<.01	18.42
29...	1105	24.0	153	7.4	8.7	9.5	--	<.01	18.84
29...	1106	26.0	151	7.3	8.6	9.5	--	<.01	19.31
29...	1107	28.0	150	7.3	8.6	9.3	--	<.01	19.85
29...	1108	30.0	147	7.3	8.5	9.2	--	<.01	22.09
29...	1109	32.0	146	7.3	8.5	9.2	--	<.01	27.63
29...	1225	28.0	150	7.3	8.6	9.3	--	--	--
29...	1240	11.0	167	7.5	9.7	9.5	--	--	--
29...	1245	2.0	164	7.9	12.5	10.1	--	--	--
JUN									
12...	1039	.10	--	--	--	--	88	--	--
12...	1040	.50	158	8.3	24.2	8.8	70	19	1.66
12...	1041	1.0	158	8.3	24.1	8.9	58	18	1.72
12...	1042	1.5	--	--	--	--	46	--	--
12...	1043	2.0	158	8.4	24.0	9.2	36	17	1.79
12...	1044	2.5	--	--	--	--	25	--	--
12...	1045	3.0	158	8.4	23.8	9.4	20	18	1.72
12...	1046	3.5	--	--	--	--	17	--	--
12...	1047	4.0	159	8.4	23.6	9.6	14	18	1.72
12...	1048	4.5	--	--	--	--	11	--	--
12...	1049	5.0	159	8.4	23.1	9.6	8.6	18	1.72
12...	1050	5.5	--	--	--	--	6.6	--	--
12...	1051	6.0	160	8.0	20.5	9.5	5.0	19	1.66
12...	1052	6.5	--	--	--	--	4.0	--	--
12...	1053	7.0	157	7.8	19.8	9.0	3.1	20	1.60
12...	1054	7.5	--	--	--	--	2.4	--	--

^{1/} To convert meters to feet, multiply by 3.281.

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (M) ^{1/}	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT TRANS- MISSION 1 METER PATH- LENGTH (%)	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
JUN									
12...	1055	8.0	156	7.6	18.0	8.2	1.9	20	1.60
12...	1056	8.5	--	--	--	--	1.4	--	--
12...	1057	9.0	157	7.5	17.1	7.6	1.1	15	1.91
12...	1058	9.1	--	--	--	--	1.0	--	--
12...	1059	10.0	157	7.3	16.2	6.7	--	9.8	2.32
12...	1100	11.0	157	7.3	15.5	6.5	--	8.5	2.46
12...	1101	12.0	159	7.3	14.6	6.5	--	8.5	2.46
12...	1102	13.0	157	7.3	13.7	6.8	--	6.2	2.77
12...	1103	14.0	154	7.3	13.6	6.9	--	6.2	2.77
12...	1104	15.0	156	7.3	13.2	7.2	--	5.3	2.94
12...	1105	16.0	153	7.3	13.1	7.4	--	3.4	3.38
12...	1106	17.0	152	7.3	12.8	7.4	--	2.6	3.67
12...	1107	18.0	153	7.3	12.7	7.6	--	2.1	3.87
12...	1108	19.0	153	7.3	12.3	7.5	--	1.7	4.09
12...	1109	20.0	153	7.3	12.2	7.4	--	1.3	4.32
12...	1110	21.0	152	7.3	12.1	7.4	--	.81	4.82
12...	1111	22.0	152	7.3	12.0	7.2	--	.71	4.95
12...	1112	23.0	150	7.3	11.9	7.1	--	.61	5.09
12...	1113	24.0	150	7.2	11.8	7.1	--	.53	5.24
12...	1114	25.0	151	7.2	11.6	6.9	--	.35	5.66
12...	1115	26.0	151	7.2	11.5	6.7	--	.30	5.79
12...	1116	27.0	151	7.2	11.4	6.4	--	.19	6.24
12...	1117	28.0	150	7.2	11.3	6.3	--	.13	6.64
12...	1118	29.0	152	7.2	11.2	6.0	--	.09	6.99
12...	1119	30.0	152	7.1	11.2	5.9	--	.05	7.59
12...	1120	31.0	--	--	--	--	--	.04	7.86
12...	1145	28.0	150	7.2	11.3	6.3	--	--	--
12...	1200	9.0	157	7.5	17.1	7.6	--	--	--
12...	1215	2.0	158	8.4	24.0	9.2	--	--	--
SEP									
20...	1059	.10	--	--	--	--	81	--	--
20...	1100	.50	168	8.4	23.6	8.3	60	11	2.18
20...	1102	1.0	167	8.5	23.5	8.4	42	9.8	2.32
20...	1103	1.5	--	--	--	--	28	--	--
20...	1104	2.0	166	8.5	23.3	8.3	22	9.8	2.32
20...	1105	2.5	--	--	--	--	12	--	--
20...	1106	3.0	167	8.5	23.1	8.2	8.8	11	2.25
20...	1107	3.5	--	--	--	--	5.7	--	--
20...	1108	4.0	166	8.6	23.1	8.3	4.7	11	2.18
20...	1109	4.5	--	--	--	--	3.9	--	--
20...	1110	5.0	166	8.6	23.1	8.2	2.8	11	2.18
20...	1111	5.5	--	--	--	--	2.2	--	--
20...	1112	6.0	166	8.5	23.0	8.0	1.7	14	1.98
20...	1113	6.5	--	--	--	--	1.2	--	--
20...	1114	6.9	--	--	--	--	1.0	--	--
20...	1115	7.0	166	8.4	23.0	7.0	--	16	1.85
20...	1117	8.0	166	8.2	22.9	6.2	--	17	1.79
20...	1118	9.0	168	8.0	22.7	4.9	--	18	1.72
20...	1119	10.0	168	7.6	22.4	3.0	--	19	1.66
20...	1120	11.0	167	7.5	22.1	2.4	--	23	1.48
20...	1121	12.0	167	7.3	22.1	2.2	--	23	1.48
20...	1122	13.0	166	7.3	21.9	1.7	--	24	1.43
20...	1123	14.0	167	7.2	21.6	1.3	--	23	1.48
20...	1124	15.0	167	7.2	21.2	1.1	--	21	1.54
20...	1125	16.0	166	7.1	21.1	1.0	--	19	1.66
20...	1126	17.0	164	7.1	21.0	.9	--	17	1.79
20...	1127	18.0	164	7.1	20.9	1.1	--	16	1.85
20...	1128	19.0	165	7.1	20.7	1.1	--	11	2.18
20...	1129	20.0	165	7.1	20.6	1.3	--	12	2.11
20...	1130	21.0	164	7.1	20.4	1.5	--	9.8	2.32
20...	1131	22.0	165	7.1	20.2	1.6	--	8.5	2.46
20...	1132	23.0	165	7.1	20.1	1.4	--	6.2	2.77
20...	1133	24.0	165	7.0	19.9	.9	--	3.7	3.28
20...	1134	25.0	164	7.0	19.8	1.0	--	2.6	3.67
20...	1135	26.0	166	7.0	19.6	.6	--	2.6	3.67
20...	1136	27.0	167	7.0	19.1	.1	--	2.6	3.67
20...	1137	28.0	--	--	--	--	--	3.7	3.28
20...	1143	3.0	167	8.5	23.1	8.2	--	--	--
20...	1146	11.0	167	7.5	22.1	2.4	--	--	--
20...	1156	25.0	164	7.0	19.8	1.0	--	--	--

^{1/} To convert meters to feet, multiply by 3.281.

RUSSIAN RIVER BASIN

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SAM- PLING DEPTH (M) ^{1/}	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	ALGAL GROWTH POTEN- TIAL, BOTTLE TEST (MG/L)
DEC									
05...	1230	25.0	193	7.9	11.1	9.6	84	K300	1.8
05...	1310	15.0	187	7.9	12.4	9.1	K2	K2	1.9
05...	1320	1.0	186	8.1	12.7	9.5	K1	K1	.8
MAR									
29...	1225	28.0	150	7.3	8.6	9.3	K2	<1	--
29...	1240	11.0	167	7.5	9.7	9.5	K7	29	--
29...	1245	2.0	164	7.9	12.5	10.1	19	K4	--
JUN									
12...	1145	28.0	150	7.2	11.3	6.3	<1	<1	--
12...	1200	9.0	157	7.5	17.1	7.6	<1	<1	--
12...	1215	2.0	158	8.4	24.0	9.2	<1	<1	--
SEP									
20...	1143	3.0	167	8.5	23.1	8.2	<1	<1	--
20...	1146	11.0	167	7.5	22.1	2.4	<1	K1	--
20...	1156	25.0	164	7.0	19.8	1.0	<1	K3	--

^{1/} To convert meters to feet, multiply by 3.281.

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

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 (152 m) downstream from Coyote Dam, 1,300 ft (396 m) upstream from mouth, and 3.2 mi (5.1 km) northeast of Ukiah.

DRAINAGE AREA.--105 mi² (272 km²).

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 (187.272 m) National Geodetic Vertical Datum of 1929. Prior to October 1951, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. October 1951 to June 1956, water-stage recorder at site 1.0 mi (1.6 km) upstream at different datum.

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 (152 m) upstream. Diversions above station for irrigation of about 8,000 acres (32.4 km²).

AVERAGE DISCHARGE (unadjusted).--7 years (water years 1912-13, 1952-55, 1958), 356 ft³/s (10.08 m³/s), 257,900 acre-ft/yr (318 hm³/yr); 20 years (water years 1960-79), 340 ft³/s (9.629 m³/s), 246,300 acre-ft/yr (304 hm³/yr).

EXTREMES FOR PERIOD OF RECORD (Prior to regulation by Lake Mendocino).--Maximum discharge, 13,300 ft³/s (377 m³/s) Dec. 21, 1955, gage height, 16.86 ft (5.139 m) site and datum then in use, from rating curve extended above 1,700 ft³/s (48.1 m³/s) on basis of maximum flow at station upstream which was defined to 8,600 ft³/s (244 m³/s); no flow Aug. 13-15, 1913.
1957 to current year: Maximum discharge, 7,350 ft³/s (208 m³/s) Jan. 24, 1970, gage height, 10.84 ft (3.304 m); minimum daily, 0.02 ft³/s (0.001 m³/s) Apr. 17, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,320 ft³/s (65.7 m³/s) Feb. 21, gage height, 4.65 ft (1.417 m); minimum daily, 32 ft³/s (0.91 m³/s) Dec. 19, Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	190	290	97	270	1200	196	340	293	223	293	273
2	188	187	290	76	270	2290	193	362	293	222	297	271
3	194	190	290	62	270	1820	193	373	293	230	298	269
4	192	190	290	62	268	676	191	395	211	235	301	260
5	191	190	280	62	267	672	190	407	145	235	301	255
6	190	190	264	62	269	672	173	407	138	234	301	254
7	190	187	259	62	270	671	160	407	138	235	302	253
8	191	187	259	44	268	667	160	429	153	235	305	253
9	190	187	259	32	266	540	158	535	168	243	295	253
10	201	187	259	34	266	465	160	599	168	257	289	252
11	206	187	239	36	266	465	141	413	168	264	290	261
12	206	187	229	1330	217	353	130	103	169	265	293	265
13	206	248	211	1400	389	285	130	105	171	271	293	265
14	206	285	200	33	1240	285	128	105	186	281	293	263
15	206	285	200	1010	1530	285	128	106	210	281	294	265
16	206	285	200	1710	1360	285	143	418	223	279	297	261
17	209	285	200	923	2030	285	175	612	223	266	297	261
18	210	285	101	425	618	285	211	497	207	258	295	260
19	206	285	32	403	2020	232	173	107	196	271	295	261
20	206	285	33	383	531	162	152	107	188	283	287	259
21	204	285	33	383	1230	141	150	126	182	289	280	261
22	203	305	72	383	2310	141	149	188	172	289	277	260
23	195	317	94	338	2310	141	183	306	155	288	278	261
24	190	317	94	309	2300	141	238	318	155	285	281	253
25	190	317	94	289	2060	139	289	320	198	284	281	248
26	190	317	94	278	1620	139	305	321	232	295	281	243
27	190	300	94	276	1660	140	305	318	213	293	280	239
28	190	290	95	274	305	138	305	320	198	281	281	241
29	190	290	96	274	---	176	305	323	213	281	278	242
30	190	290	95	274	---	197	328	323	223	290	275	245
31	190	---	96	272	---	197	---	303	---	293	274	---
TOTAL	6097	7530	5342	11596	26680	14285	5842	9993	5882	8236	8982	7707
MEAN	197	251	172	374	953	461	195	322	196	266	290	257
MAX	210	317	290	1710	2310	2290	328	612	293	295	305	273
MIN	181	187	32	32	217	138	128	103	138	222	274	239
AC-FT	12090	14940	10600	23000	52920	28330	11590	19820	11670	16340	17820	15290
CAL YR 1978 TOTAL	148088.2		MEAN 406	MAX 5000	MIN 2.3	AC-FT 293700						
WTR YR 1979 TOTAL	118172.0		MEAN 324	MAX 2310	MIN 32	AC-FT 234400						

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 ANALYSES: Water years 1953-55, 1973 to current year.

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.

COOPERATION.--Chemical-quality data furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 23.5°C on several days in 1977; minimum recorded, 7.0°C Jan. 14, 1973, and Feb. 4-13, 1979.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 20.5°C September 24-30; minimum recorded, 7.0°C Feb. 4-13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT								
12...	0855	206	180	7.6	19.5	--	8.9	98
20...	1100	210	184	7.2	18.0	2.9	--	--
NOV								
17...	1030	285	186	7.0	13.0	2.5	--	--
DEC								
01...	1100	285	171	--	12.0	1.5	--	--
26...	0945	94	188	7.8	9.0	1.5	--	--
JAN								
12...	1415	2280	182	7.2	9.0	100	--	--
FEB								
02...	1100	285	183	6.8	7.0	27	--	--
15...	1115	1730	177	7.4	8.0	19	--	--
MAR								
05...	1100	672	148	7.3	12.0	48	--	--
APR								
02...	1045	206	149	7.0	10.0	16	--	--
16...	1350	187	155	7.1	9.0	25	--	--
MAY								
01...	1010	336	151	7.1	10.0	23	--	--
18...	1055	612	160	6.9	12.0	17	--	--
JUN								
08...	1520	168	170	7.0	12.0	11	--	--
22...	1200	182	174	7.1	12.0	16	--	--
JUL								
09...	1110	258	164	7.1	13.0	7.2	--	--
10...	1300	277	--	--	13.0	--	10.2	--
20...	1130	318	172	6.7	13.0	6.0	10.4	--
AUG								
03...	1140	336	169	6.6	14.0	4.5	10.2	--
17...	1130	318	181	6.7	15.0	3.1	10.4	--
31...	1500	281	177	6.6	17.0	1.5	10.2	--
SEP								
14...	1130	248	175	6.6	19.0	2.8	7.4	--
28...	1400	205	171	6.4	20.0	2.7	8.9	--

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 (0.3 km) downstream from McNab Creek, 4 mi (6 km) north of Hopland.

DRAINAGE AREA.--362 mi² (938 km²).

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 1041: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 497.61 ft (151.672 m) 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 (47.8 km²) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino (station 11461800) 15 mi (24 km) upstream.

AVERAGE DISCHARGE.--40 years, 712 ft³/s (20.16 m³/s), 515,800 acre-ft/yr (636 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft³/s (1,270 m³/s) Dec. 22, 1955, gage height, 27.00 ft (8.230 m); minimum daily, 9.1 ft³/s (0.26 m³/s) Apr. 20, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1937 reached a stage of 30.0 ft (9.14 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,900 ft³/s (479 m³/s) Jan. 11, gage height, 16.83 ft (5.130 m); minimum daily, 40 ft³/s (1.13 m³/s) Dec. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	175	308	81	387	3580	507	410	295	180	235	226
2	152	179	308	78	382	3320	472	415	292	185	239	226
3	158	179	308	58	380	3150	441	423	291	187	240	226
4	161	179	305	56	376	1710	428	428	259	194	240	225
5	163	179	295	56	376	1400	415	482	171	197	240	218
6	163	181	290	54	372	1220	402	510	146	199	240	215
7	163	179	280	54	370	1100	365	765	136	200	243	215
8	163	179	276	80	368	1020	350	709	134	200	244	215
9	167	179	276	75	368	912	338	663	151	204	242	215
10	170	179	276	262	368	777	322	686	154	211	237	215
11	182	179	269	8820	368	731	317	608	156	221	237	215
12	183	181	252	2220	369	655	299	289	156	225	237	219
13	182	209	242	2160	2680	550	290	257	150	227	237	222
14	179	278	221	1600	2910	520	283	241	154	232	237	222
15	179	285	218	2770	3040	525	276	227	176	235	237	222
16	179	289	217	2010	4360	526	279	317	201	242	237	222
17	183	290	216	1430	3090	556	302	538	206	239	237	222
18	183	292	190	858	4340	508	324	542	205	232	237	222
19	175	298	63	729	3690	470	299	235	192	230	237	222
20	175	307	46	650	3210	395	271	193	181	231	236	222
21	175	308	40	611	5010	351	269	189	168	245	230	222
22	175	312	42	581	5000	334	273	208	167	247	229	222
23	174	324	75	541	4580	322	325	309	143	245	226	222
24	171	327	79	488	3560	312	389	330	140	240	226	225
25	175	327	81	464	3030	306	390	331	154	240	226	222
26	171	327	81	430	2620	308	423	330	198	240	226	219
27	171	322	81	415	2480	2210	435	323	190	243	226	209
28	171	308	81	406	3770	1240	414	323	158	240	226	204
29	171	308	81	400	---	783	404	323	160	241	226	204
30	173	308	81	393	---	648	404	322	177	244	226	204
31	175	---	81	392	---	558	---	313	---	243	226	---
TOTAL	5313	7567	5659	29222	61854	30997	10706	12239	5461	6939	7262	6559
MEAN	171	252	183	943	2209	1000	357	395	182	224	234	219
MAX	183	327	308	8820	5010	3580	507	765	295	247	244	226
MIN	151	175	40	54	368	306	269	189	134	180	226	204
AC-FT	10540	15010	11220	57960	122700	61480	21240	24280	10830	13760	14400	13010
CAL YR 1978	TOTAL	350732	MEAN 961	MAX 14500	MIN 40	AC-FT 695700						
WTR YR 1979	TOTAL	189778	MEAN 520	MAX 8820	MIN 40	AC-FT 376400						

11462500 RUSSIAN RIVER NEAR HOPLAND, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to March 1979 (discontinued).

CHEMICAL ANALYSES: Water years 1951-66.

WATER TEMPERATURES: Water years 1965 to March 1979 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: September 1965 to March 1979.

INSTRUMENTATION.--Temperature recorder since September 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 27.0°C Sept. 5, 6, 1977; minimum recorded, 5.0°C Feb. 2, Dec. 16, 1972, Jan. 31 to Feb. 2, 1975, Dec. 30, 31, 1978.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 21.0°C Oct. 1-4; minimum for period recorded, 5.0°C Dec. 30, 31.

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO MARCH 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.0	19.0	15.5	14.0	12.5	11.0	8.0	5.5	8.0	7.0	9.0	7.5
2	21.0	19.0	15.5	13.5	11.0	10.5	8.5	6.0	8.0	7.0	8.5	8.0
3	21.0	19.0	15.5	14.0	11.0	10.0	10.0	8.5	8.0	6.5	9.5	8.5
4	21.0	19.0	15.5	14.5	12.0	10.0	10.0	9.0	9.0	7.0	12.0	9.5
5	20.5	18.5	16.0	15.0	12.0	10.0	10.0	8.0	9.0	7.5	12.0	10.0
6	20.0	18.5	16.0	14.5	10.5	9.5	9.5	8.5	9.0	8.0	13.0	11.0
7	20.0	18.5	15.5	14.5	9.5	7.5	10.5	9.5	9.0	8.0	13.0	11.0
8	20.0	18.0	15.5	14.0	9.0	7.5	11.5	9.5	9.0	8.0	13.0	11.0
9	20.0	18.0	15.5	14.0	9.5	8.5	11.0	10.5	9.5	9.0	13.5	11.0
10	20.0	18.0	14.0	12.5	9.5	8.5	11.0	9.5	9.5	8.5	13.0	11.5
11	20.0	18.0	13.0	12.0	10.0	9.5	11.0	10.0	9.5	9.0	13.0	11.5
12	20.0	18.0	12.0	11.5	9.5	9.0	10.0	9.0	9.5	8.5	13.5	11.5
13	20.0	18.0	13.5	11.5	9.0	8.5	9.0	8.5	9.5	9.0	13.0	11.5
14	19.5	18.5	13.0	12.0	9.0	8.0	9.0	8.0	9.5	9.0	13.0	12.0
15	20.0	18.0	13.5	11.5	8.5	7.5	9.0	8.0	9.0	8.0	12.0	11.5
16	19.5	18.0	13.5	13.0	8.5	7.5	9.0	8.0	9.0	8.0	11.5	11.0
17	19.5	17.5	13.5	12.0	8.5	8.0	9.0	8.0	8.5	7.5	11.5	10.5
18	19.5	17.5	13.0	12.5	8.5	6.5	9.0	8.0	9.5	8.0	12.0	11.0
19	18.5	17.5	13.5	12.5	9.0	5.5	9.0	8.0	9.5	8.5	12.0	10.0
20	18.5	17.0	13.5	13.0	8.5	5.5	9.5	8.5	9.5	9.0	---	---
21	19.0	17.0	13.5	12.5	9.0	5.5	9.5	8.5	9.5	8.5	---	---
22	18.5	17.0	12.5	11.5	9.0	6.5	9.0	8.0	9.0	8.5	---	---
23	18.5	16.5	13.0	11.0	9.0	7.5	9.0	8.0	9.5	9.0	---	---
24	18.0	17.0	12.5	11.5	9.5	7.5	9.5	8.0	10.0	9.0	---	---
25	18.0	16.5	12.0	11.0	9.5	7.0	8.5	7.5	9.5	9.0	---	---
26	18.0	16.5	12.0	11.0	9.0	7.5	8.5	7.0	10.5	9.5	---	---
27	17.5	16.0	12.0	11.0	9.0	7.5	8.5	7.0	10.0	8.5	---	---
28	17.5	15.5	12.5	11.0	9.5	6.5	8.5	7.0	10.0	9.0	---	---
29	17.0	15.0	13.0	12.0	9.0	5.5	8.0	6.5	---	---	---	---
30	16.0	14.5	12.5	11.5	8.0	5.0	8.5	7.0	---	---	---	---
31	15.5	14.0	---	---	7.5	5.0	8.5	7.0	---	---	---	---
MONTH	21.0	14.0	16.0	11.0	12.5	5.0	11.5	5.5	10.5	6.5	13.5	7.5

11463000 RUSSIAN RIVER NEAR CLOVERDALE, CA

LOCATION.--Lat 38°52'46", long 123°03'09", in NW₄NW₄ sec.23, T.12 N., R.11 W., Mendocino County, Hydrologic Unit 18010110, on left bank 0.3 mi (0.5 km) downstream from Cummisky Creek and 5.5 mi (8.8 km) northwest of Cloverdale.

DRAINAGE AREA.--503 mi² (1,303 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 350 ft (107 m), from topographic map. Prior to July 30, 1970, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good. Diversions for irrigation of about 15,300 acres (61.9 km²) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino (station 11461800) 28 mi (45 km) upstream.

AVERAGE DISCHARGE.--28 years, 967 ft³/s (27.39 m³/s), 700,600 acre-ft/yr (864 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft³/s (1,560 m³/s) Dec. 22, 1964, gage height, 31.60 ft (9.632 m) site and datum then in use; minimum daily, 12 ft³/s (0.34 m³/s) Apr. 22, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,100 ft³/s (428 m³/s) Jan. 11, gage height, 14.92 ft (4.548 m); minimum daily, 63 ft³/s (1.78 m³/s) Dec. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	182	331	102	412	5290	904	584	359	167	226	233
2	167	183	331	102	401	4020	804	578	351	173	234	239
3	174	184	331	87	389	3770	723	585	348	167	238	239
4	176	185	331	81	385	2350	675	578	331	176	241	231
5	180	187	319	80	378	1920	640	719	207	189	242	229
6	183	188	315	76	375	1660	630	766	165	184	243	227
7	179	190	299	79	372	1490	557	1110	149	180	245	225
8	180	189	297	190	364	1370	517	1080	140	186	245	223
9	181	187	297	190	357	1250	490	955	151	189	243	220
10	181	187	297	430	357	1080	456	974	153	195	234	225
11	186	189	296	9510	354	1010	452	919	158	206	236	226
12	189	193	271	2590	373	928	416	495	154	216	240	235
13	188	200	263	2540	4210	766	394	390	142	217	244	236
14	180	283	237	2930	4050	700	378	348	139	228	240	236
15	184	303	231	3850	3400	711	364	320	163	233	244	236
16	184	310	227	2390	6080	722	363	339	196	240	245	239
17	184	316	231	1810	3650	735	400	676	211	236	247	236
18	184	319	231	1180	5840	665	409	709	221	219	253	236
19	184	327	127	996	4440	611	387	417	197	211	257	239
20	185	339	86	859	4680	511	339	264	190	215	260	235
21	189	336	71	781	6890	442	336	239	172	226	244	234
22	188	334	63	726	6530	399	346	257	167	236	245	232
23	189	346	83	669	5740	372	485	349	147	236	241	236
24	179	354	98	582	4330	349	659	409	135	219	245	241
25	174	355	76	540	3640	334	567	415	132	218	246	233
26	174	357	76	485	3400	409	676	406	178	211	239	232
27	176	356	102	456	3230	4790	710	400	190	225	240	218
28	179	337	102	443	4970	2640	623	395	151	217	233	210
29	180	335	102	436	---	1600	591	391	137	219	234	206
30	183	332	102	428	---	1260	577	385	153	225	231	210
31	183	---	102	426	---	1040	---	382	---	227	232	---
TOTAL	5607	8083	6325	36044	79597	45194	15868	16834	5687	6486	7487	6897
MEAN	181	269	204	1163	2843	1458	529	543	190	209	242	230
MAX	189	357	331	9510	6890	5290	904	1110	359	240	260	241
MIN	164	182	63	76	354	334	336	239	132	167	226	206
AC-FT	11120	16030	12550	71490	157900	89640	31470	33390	11280	12860	14850	13680
CAL YR 1978	TOTAL	461066	MEAN	1263	MAX	21000	MIN	63	AC-FT	914500		
WTR YR 1979	TOTAL	240109	MEAN	658	MAX	9510	MIN	63	AC-FT	476300		

11463160 BIG SULPHUR CREEK NEAR MIDDLETOWN, CA

LOCATION.--Lat 38°45'49", long 122°44'43", in NW¼SE¼ sec.33, T.11 N., R.8 W., Sonoma County, Hydrologic Unit 18010110, on right bank 400 ft (122 m) upstream from small right-bank tributary, 7.1 mi (11.4 km) west of Middletown, and 15 mi (24 km) southeast of Cloverdale.

DRAINAGE AREA.--2.89 mi² (7.49 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 2,530 ft (771 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 956 ft³/s (27.1 m³/s) Dec. 14, 1977, gage height, 6.33 ft (1.929 m), from rating curve extended above 68 ft³/s (1.93 m³/s); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 498 ft³/s (14.1 m³/s) Feb. 13, gage height, 5.61 ft (1.710 m); from rating curve extended above 68 ft³/s (1.93 m³/s), no peak above base of 700 ft³/s (20 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.02	.31	.31	1.3	62	11	6.7	1.1	.20		
2	.04	.02	.21	.31	1.2	33	8.9	5.7	1.1	.20		
3	.04	.02	.17	.31	1.1	24	6.7	5.1	.98	.20		
4	.03	.03	.19	.38	1.8	18	5.9	4.5	.89	.20		
5	.03	.03	.17	.38	2.5	14	5.3	32	.80	.20		
6	.03	.03	.17	.38	2.5	11	5.0	33	.72	.18		
7	.03	.03	.19	2.0	2.3	8.7	4.6	31	.69	.18		
8	.03	.03	.19	47	2.1	8.0	4.2	20	.69	.16		
9	.03	.03	.19	19	1.8	7.0	3.7	16	.67	.14		
10	.03	.03	.19	41	1.9	6.0	3.5	12	.63	.15		
11	.03	.03	.19	168	2.1	5.3	3.3	10	.63	.15		
12	.03	.04	.19	21	1.8	4.7	3.0	8.7	.61	.12		
13	.03	.09	.19	9.9	191	4.3	2.7	7.3	.57	.11		
14	.02	.12	.17	61	99	4.1	2.5	6.2	.57	.09		
15	.02	.12	.17	93	50	4.8	2.3	5.6	.57	.08		
16	.02	.12	.17	29	110	5.2	3.3	5.0	.52	.07		
17	.02	.12	.65	15	37	5.3	3.0	4.4	.52	.06		
18	.02	.12	.58	10	67	4.9	2.4	3.9	.52	.05		
19	.02	.64	.48	6.7	36	4.5	2.2	3.4	.49	.05		
20	.02	.82	.48	5.1	73	3.9	2.0	3.2	.43	.04		
21	.02	.15	.43	3.9	104	3.6	1.9	3.1	.43	.04		
22	.02	.36	.38	3.2	83	3.2	1.9	2.9	.42	.04		
23	.02	.21	.34	2.8	56	3.1	35	2.6	.38	.04		
24	.02	.19	.34	2.3	34	2.8	27	2.4	.35	.04		
25	.02	.19	.34	2.1	27	2.6	11	2.1	.35	.04		
26	.02	.19	.34	1.6	31	3.8	18	1.8	.31	.04		
27	.02	.19	.34	1.5	21	76	20	1.7	.29	.04		
28	.02	.17	.34	1.4	84	35	13	1.6	.28	.03		
29	.02	.14	.34	1.3	---	21	9.9	1.5	.23	.03		
30	.02	.14	.34	1.5	---	16	7.6	1.4	.22	.03		
31	.02	---	.31	1.5	---	13	---	1.2	---	.02		---
TOTAL	.78	4.42	9.09	552.87	1125.4	418.8	230.8	246.0	16.96	3.02	0	0
MEAN	.025	.15	.29	17.8	40.2	13.5	7.69	7.94	.57	.097	0	0
MAX	.04	.82	.65	168	191	76	35	33	1.1	.20	0	0
MIN	.02	.02	.17	.31	1.1	2.6	1.9	1.2	.22	.02	0	0
AC-FT	1.5	8.8	18	1100	2230	831	458	488	34	6.0	0	0
CAL YR 1978	TOTAL	5228.92	MEAN	14.3	MAX	330	MIN	0	AC-FT	10370		
WTR YR 1979	TOTAL	2608.14	MEAN	7.15	MAX	191	MIN	0	AC-FT	5170		

RUSSIAN RIVER BASIN

11463900 MAACAMA CREEK NEAR KELLOGG, CA

LOCATION.--Lat 38°38'25", long 122°45'45", in SW¼ sec.9, T.9 N., R.8 W., Sonoma County, Hydrologic Unit 18010110, on right bank 0.5 mi (0.8 km) downstream from Redwood Creek, and 4.4 mi (7.1 km) west of Kellogg.

DRAINAGE AREA.--43.4 mi² (112.4 km²).

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximum, water years 1958-60, December 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 188.91 ft (57.580 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 20, 1960, crest-stage gage only at site 700 ft (213 m) upstream at different datum.

REMARKS.--Records good except those for periods of no gage-height record, Dec. 7 to Jan. 15, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--18 years (water years 1962-79), 82.6 ft³/s (2.339 m³/s), 59,840 acre-ft/yr (73.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,330 ft³/s (264 m³/s) Jan. 16, 1978, gage height, 16.48 ft (5.023 m); maximum gage height, 17.56 ft (5.352 m) Dec. 22, 1964; no flow for many days in 1964, 1968, 1976-77, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (57 m³/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 11	0	2640	74.8	9.32	2.841	Feb. 20	1400	2470	70.0	9.13	2.783
Feb. 13	1445	*3110	88.1	9.90	3.018						

Minimum daily discharge, no flow Aug. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	.85	2.6	2.3	16	411	69	28	8.8	1.5	.26	.14
2	.82	.87	2.8	2.0	14	251	62	26	7.9	1.5	.20	.16
3	.74	.98	2.6	1.9	13	216	56	24	7.8	1.6	.16	.18
4	.72	1.0	2.4	2.5	13	165	54	22	7.4	1.5	.14	.29
5	.76	1.1	2.4	3.5	13	133	49	53	7.1	1.5	.13	.37
6	.91	1.2	2.3	6.0	12	112	55	46	7.1	1.4	.12	.38
7	.99	1.1	2.2	9.0	11	100	45	56	6.6	1.2	.09	.38
8	.95	1.1	2.1	14.0	11	90	39	39	6.3	1.2	.14	.34
9	.92	1.0	2.0	8.0	10	81	36	32	6.1	1.3	.23	.28
10	.89	.93	2.0	25.0	10	73	33	28	5.5	1.6	.24	.17
11	.87	.94	2.1	16.0	10	67	33	25	4.6	1.3	.17	.17
12	.80	1.5	2.0	7.0	11	63	30	23	3.8	.89	.06	.16
13	.62	2.4	1.8	3.0	137.0	54	28	22	3.9	1.1	0	.15
14	.55	2.3	2.0	12.0	58.6	48	26	20	4.0	.77	0	.16
15	.63	2.1	2.0	5.0	25.4	55	24	19	4.2	.81	.07	.14
16	1.9	2.0	1.9	17.3	59.2	65	26	19	4.1	.99	.19	.15
17	.79	2.0	3.1	9.5	24.2	62	27	18	4.3	1.2	.24	.15
18	.51	2.0	4.5	7.2	64.8	53	22	16	4.2	1.0	.20	.16
19	.45	2.7	4.0	5.3	32.0	49	19	16	4.0	.91	.10	.15
20	.54	4.6	3.2	4.2	71.4	40	17	16	4.0	.77	.07	.13
21	.55	3.6	2.5	3.5	77.9	40	17	16	3.6	.78	.02	.14
22	.57	3.2	2.8	3.0	62.7	38	20	15	2.9	.77	.01	.15
23	.68	2.8	3.0	2.6	42.8	35	49	14	2.6	.69	.05	.16
24	.48	2.4	3.8	2.3	28.4	33	68	13	2.4	.67	.15	.16
25	.45	2.1	3.6	2.1	24.5	31	35	13	2.5	.69	.16	.24
26	.53	2.0	2.9	1.8	29.8	37	48	11	2.5	.72	.16	.28
27	.81	1.9	2.9	1.7	18.1	49.2	60	11	2.5	.67	.16	.39
28	.70	1.9	2.8	1.6	53.3	20.2	40	10	2.5	.57	.15	.44
29	.65	1.8	2.7	1.5	---	12.0	33	9.9	2.2	.40	.15	.36
30	.63	1.9	2.6	1.8	---	9.4	30	7.8	1.9	.29	.15	.38
31	.68	---	2.6	2.1	---	7.8	---	9.0	---	.26	.14	---
TOTAL	22.89	56.27	82.2	5502.2	8245	3388	1150	677.7	137.3	30.55	4.11	6.91
MEAN	.74	1.88	2.65	1.77	2.94	1.09	38.3	21.9	4.58	.99	.13	.23
MAX	1.9	4.6	4.5	16.0	137.0	49.2	69	56	8.8	1.6	.26	.44
MIN	.45	.85	1.8	1.9	1.0	3.1	17	7.8	1.9	.26	0	.13
AC-FT	45	112	163	10910	16350	6720	2280	1340	272	61	8.2	14
CAL YR 1978	TOTAL	40681.29	MEAN	111	MAX	4130	MIN	.35	AC-FT	80690		
WTR YR 1979	TOTAL	19303.13	MEAN	52.9	MAX	1600	MIN	0	AC-FT	38290		

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 (3 km) east of Healdsburg, and 3.5 mi (5.6 km) upstream from Dry Creek.

DRAINAGE AREA.--793 mi² (2,054 km²).

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 (23.473 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Several diversions for irrigation of about 17,800 acres (72.0 km²) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino (station 11461800) 63 mi (101 km) upstream.

AVERAGE DISCHARGE.--40 years, 1,418 ft³/s (40.16 m³/s), 1,027,000 acre-ft/yr (1.27 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,300 ft³/s (2,020 m³/s) Dec. 23, 1964, gage height, 27.00 ft (8.230 m); maximum gage height, 30.0 ft (9.14 m) Feb. 28, 1940; minimum daily discharge, 17 ft³/s (0.48 m³/s) Apr. 25, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 30.8 ft (9.39 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,800 ft³/s (419 m³/s) Jan. 11, gage height, 10.55 ft (3.216 m); minimum daily, 102 ft³/s (2.89 m³/s) June 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173	181	336	129	527	9500	1530	749	396	123	200	198
2	169	180	333	129	507	6060	1360	728	369	150	198	207
3	166	182	333	129	489	5400	1210	712	357	214	199	210
4	171	185	332	124	478	4210	1110	698	352	215	204	205
5	173	186	329	122	472	3090	1040	772	317	214	213	200
6	186	189	317	119	466	2640	1020	1030	217	237	214	187
7	183	194	314	120	459	2310	947	1160	170	235	214	175
8	180	191	305	233	450	2080	843	1310	148	232	215	172
9	179	191	301	529	444	1890	777	1140	136	236	213	175
10	179	189	300	392	441	1640	717	1090	134	240	210	174
11	177	190	301	9290	439	1480	681	1050	126	239	207	180
12	182	196	297	5630	443	1370	647	885	123	242	210	183
13	182	204	281	2960	5450	1220	596	601	117	242	210	185
14	181	209	273	4230	9750	1100	567	513	109	240	212	187
15	179	254	257	9060	4340	1070	527	459	102	254	210	187
16	180	276	251	4160	9280	1140	515	417	111	262	216	187
17	181	287	256	2810	6000	1110	536	518	134	265	214	188
18	182	294	262	1910	7970	1040	524	710	165	255	214	191
19	183	308	251	1420	7310	988	506	683	231	230	219	189
20	186	324	192	1200	7040	892	471	429	199	213	221	189
21	184	341	157	1060	11100	807	439	358	174	219	217	192
22	185	340	136	978	9670	723	443	320	154	238	205	193
23	183	338	124	891	8860	661	525	360	155	246	202	192
24	181	347	125	820	6780	616	1090	405	145	235	201	194
25	175	347	132	737	5270	581	826	425	131	203	202	201
26	174	350	135	679	5270	569	797	420	121	195	206	202
27	174	352	135	624	4410	5910	1100	418	138	193	205	196
28	176	347	133	591	4620	5870	931	415	127	208	201	186
29	180	335	132	565	---	3050	824	412	132	206	202	179
30	179	331	132	544	---	2210	773	410	118	205	200	177
31	180	---	129	550	---	1790	---	408	---	202	198	---
TOTAL	5543	7838	7291	52735	118735	73017	23872	20005	5408	6888	6452	5681
MEAN	179	261	235	1701	4241	2355	796	645	180	222	208	189
MAX	186	352	336	9290	11100	9500	1530	1310	396	265	221	210
MIN	166	180	124	119	439	569	439	320	102	123	198	172
AC-FT	10990	15550	14460	104600	235500	144800	47350	39680	10730	13660	12800	11270
CAL YR 1978	TOTAL	802967	MEAN	2200	MAX	37200	MIN	124	AC-FT	1593000		
WTR YR 1979	TOTAL	333465	MEAN	914	MAX	11100	MIN	102	AC-FT	661400		

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

CHEMICAL ANALYSES: Water years 1951-66.

WATER TEMPERATURES: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1965 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 28.0°C July 13, 14, 1972; minimum recorded, 5.0°C Dec. 10, 11, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 27.5°C July 24; minimum recorded, 5.5°C Dec. 31, Jan. 1.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.5	19.0	14.5	11.5	13.5	11.5	6.5	5.5	7.5	6.5	10.0	8.5
2	23.5	19.5	14.5	11.0	11.5	10.0	7.5	6.0	8.0	6.5	9.5	8.5
3	23.5	19.0	15.0	11.5	11.0	9.0	8.5	6.5	8.0	6.5	10.5	9.0
4	23.0	19.0	15.5	12.5	11.0	8.5	10.0	8.5	9.0	7.0	12.0	10.0
5	20.5	18.5	16.0	13.5	11.0	9.0	11.0	9.5	10.5	8.5	13.5	11.0
6	21.0	18.0	16.0	13.0	9.0	7.5	10.5	8.5	11.0	9.5	15.0	11.5
7	21.0	16.5	16.0	13.0	8.0	7.0	10.5	9.5	10.5	9.0	15.5	12.5
8	20.5	17.0	15.5	12.5	7.5	6.5	11.0	10.0	10.5	9.0	15.5	12.5
9	20.5	17.0	15.0	12.5	9.0	7.0	11.5	10.5	11.5	10.0	14.5	13.0
10	21.0	16.5	13.0	10.5	9.0	7.5	12.0	11.5	12.0	11.0	13.5	12.5
11	21.0	17.0	11.5	9.0	10.5	8.5	11.5	11.0	12.0	11.0	14.0	12.0
12	21.5	17.5	10.0	8.0	11.0	9.5	11.5	10.5	11.5	10.5	15.5	12.0
13	21.5	17.5	11.5	9.5	11.0	9.0	10.5	9.5	10.5	10.0	15.0	13.0
14	21.0	18.0	11.0	8.5	10.5	8.5	9.5	9.5	10.5	9.0	13.0	12.5
15	21.0	18.0	11.0	8.5	10.0	8.0	9.5	8.5	9.0	8.5	13.0	12.0
16	20.5	17.5	12.5	11.0	9.0	7.0	10.0	8.5	9.5	8.5	12.0	11.0
17	20.0	16.5	12.5	10.0	10.0	9.0	9.5	8.0	9.5	8.5	14.0	11.0
18	19.5	17.0	12.5	11.5	10.0	8.0	10.0	8.5	9.5	8.5	13.5	12.0
19	17.5	16.0	13.0	11.5	8.5	7.0	9.5	8.0	10.5	9.0	14.5	11.0
20	18.5	15.5	14.0	13.0	8.0	6.5	10.0	8.0	9.5	9.0	14.5	12.0
21	18.5	15.5	13.5	12.0	8.0	6.5	10.0	8.5	10.0	8.5	14.0	12.5
22	19.0	15.0	13.0	11.5	8.0	6.5	10.0	9.0	10.0	9.0	13.0	12.0
23	18.5	15.0	12.5	10.5	7.5	6.5	9.5	8.0	9.5	8.5	15.0	12.0
24	18.0	14.5	12.5	10.5	8.0	7.0	9.5	8.5	10.5	9.0	16.0	12.5
25	17.5	15.0	11.5	10.0	8.5	7.0	9.0	7.5	10.5	9.5	16.0	13.0
26	17.0	15.0	11.5	9.5	8.0	7.0	8.5	7.0	11.5	10.0	15.0	13.0
27	17.5	14.0	12.0	9.5	8.5	7.5	8.5	7.5	11.0	9.0	13.0	11.5
28	17.0	14.0	12.0	10.5	8.5	7.0	8.0	7.0	10.5	9.5	13.0	10.5
29	16.0	14.0	13.0	11.0	8.0	7.0	8.0	6.5	---	---	13.5	11.0
30	14.5	12.0	14.0	12.5	7.0	6.0	8.0	7.0	---	---	14.0	11.0
31	15.0	11.5	---	---	6.5	5.5	8.5	7.0	---	---	15.0	11.5
MONTH	23.5	11.5	16.0	8.0	13.5	5.5	12.0	5.5	12.0	6.5	16.0	8.5

11464400 DRY CREEK NEAR YORKVILLE, CA

LOCATION.--Lat 38°47'21", long 123°19'16", in SE¼NE¼ 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 (0.2 km) downstream from Rail Creek, 7.5 mi (12.1 km) west of Cloverdale, and 8.2 mi (13.2 km) southeast of Yorkville.

DRAINAGE AREA.--56.0 mi² (145.0 km²).

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

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 500 ft (152 m), from topographic map.

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

AVERAGE DISCHARGE.--6 years, 113 ft³/s (3.200 m³/s), 81,870 acre-ft/yr (101 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,400 ft³/s (436 m³/s) Jan. 16, 1974, gage height, 13.50 ft (4.115 m); no flow many days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 11	1000	*3250	92.0	7.80	2.377
Feb. 13	1215	3090	87.5	7.70	2.347

Minimum daily discharge, 0.16 ft³/s (0.005 m³/s) Aug. 28 to Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.2	3.5	4.6	37	605	156	48	12	4.5	1.6	.16
2	2.3	1.2	3.5	4.6	33	414	114	44	11	4.5	1.1	.24
3	2.3	1.2	3.1	4.6	30	374	98	40	10	4.5	1.0	.31
4	2.3	1.2	3.1	5.2	30	303	86	37	9.9	4.9	.68	.31
5	2.3	1.4	3.1	5.8	28	247	78	98	9.1	5.6	.60	.31
6	2.3	1.4	3.1	5.8	26	212	81	90	9.5	5.4	.60	.31
7	2.3	1.4	3.1	7.9	25	186	68	106	9.1	5.6	.60	.31
8	2.3	1.4	3.1	66	24	174	61	78	8.3	6.5	.60	.47
9	2.3	1.4	3.1	54	24	160	54	65	7.6	6.8	.37	.60
10	2.3	1.4	3.1	272	24	148	49	57	7.6	6.8	.31	.60
11	2.0	1.4	3.1	1870	24	136	49	50	7.6	6.8	.31	.60
12	2.0	1.7	3.1	457	58	128	45	46	5.9	6.8	.31	.60
13	2.0	2.0	3.1	249	1600	121	39	42	5.2	6.8	.31	.60
14	2.0	2.3	3.1	81	662	114	37	38	6.0	6.8	.31	.60
15	2.0	2.4	3.1	506	602	125	33	34	6.0	6.8	.31	.60
16	2.0	2.3	3.1	245	779	125	35	31	6.0	6.8	.31	.60
17	1.8	2.3	4.8	173	384	128	35	30	6.0	6.8	.31	.60
18	1.7	2.3	6.1	132	936	116	30	26	6.0	7.1	.31	.60
19	1.7	3.8	5.1	99	500	110	27	25	6.0	7.6	.31	.60
20	1.7	6.6	4.6	81	833	104	24	22	6.0	7.6	.31	.60
21	1.4	4.3	4.6	70	781	105	22	22	5.8	7.6	.31	.60
22	1.4	4.6	4.6	60	720	97	30	22	5.5	7.0	.31	.60
23	1.4	4.7	4.6	54	552	91	76	21	5.4	6.1	.31	.60
24	1.4	3.7	4.6	47	411	85	92	19	5.3	4.6	.31	.31
25	1.2	3.5	4.6	43	359	82	56	18	5.3	3.4	.31	.31
26	1.2	3.5	4.6	38	449	122	83	16	5.3	2.9	.31	.31
27	1.2	3.1	4.6	35	327	1160	98	15	5.1	2.8	.17	.31
28	1.2	3.1	4.6	32	772	497	73	15	4.5	2.6	.16	.31
29	1.2	3.3	4.6	30	---	292	61	15	4.5	2.4	.16	.31
30	1.2	4.2	4.6	38	---	219	54	13	4.5	2.0	.16	.31
31	1.2	---	4.6	43	---	173	---	13	---	1.8	.16	---
TOTAL	55.9	78.3	121.6	5551.5	11030	6953	1844	1196	206.0	168.2	13.23	13.59
MEAN	1.80	2.61	3.92	179	394	224	61.5	38.6	6.87	5.43	.43	.45
MAX	2.3	6.6	6.1	1870	1600	1160	156	106	12	7.6	1.6	.60
MIN	1.2	1.2	3.1	4.6	24	82	22	13	4.5	1.8	.16	.16
AC-FT	111	155	241	11010	21880	13790	3660	2370	409	334	26	27
CAL YR 1978 TOTAL	67184.00		MEAN 184	MAX 7340	MIN 1.2	AC-FT 133300						
WTR YR 1979 TOTAL	27231.32		MEAN 74.6	MAX 1870	MIN .16	AC-FT 54010						

11464500 DRY CREEK NEAR CLOVERDALE, CA

LOCATION.--Lat 38°44'59", long 123°05'28", in NE¼NE¼ sec.5, T.10 N., R.11 W., Sonoma County, Hydrologic Unit 18010110, on left bank 500 ft (152 m) downstream from Smith Creek, and 5 mi (8 km) southwest of Cloverdale.

DRAINAGE AREA.--87.8 mi² (227.4 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1395: 1942(M), 1943, 1946(M), 1951-54(M), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 304.04 ft (92.671 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--38 years, 159 ft³/s (4.503 m³/s), 115,200 acre-ft/yr (142 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,100 ft³/s (513 m³/s) Dec. 22, 1964, gage height, 18.09 ft (5.514 m); minimum, 0.08 ft³/s (0.002 m³/s) Aug. 18, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1937 reached a stage of about 18 ft (5.5 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,600 ft³/s (102 m³/s) Jan. 11 (1000 hrs), gage height, 7.36 ft (2.243 m), no other peak above base of 3,300 ft³/s (93 m³/s); minimum daily, 0.58 ft³/s (0.016 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.2	4.8	4.0	46	880	216	64	17	5.0	1.6	.88
2	2.0	2.2	4.5	4.0	42	523	182	59	16	4.9	1.5	1.0
3	2.0	2.3	4.4	4.2	39	426	158	55	15	4.8	1.5	1.1
4	1.9	2.3	3.9	5.0	37	325	142	51	14	4.8	1.4	.92
5	1.9	2.3	4.1	6.6	36	264	129	122	12	4.7	1.4	.83
6	1.9	2.3	3.9	6.1	34	224	137	107	11	4.7	1.3	.74
7	2.0	2.3	3.9	8.6	32	194	114	131	11	4.6	1.2	.73
8	2.0	2.3	3.8	136	31	168	100	95	9.9	4.5	1.1	.72
9	2.1	2.3	3.9	108	30	150	91	78	9.6	4.5	1.1	.78
10	2.1	2.3	3.9	362	30	134	84	69	9.7	4.6	.97	.79
11	2.0	2.3	3.9	2180	30	119	83	62	9.1	4.3	.93	.76
12	2.0	2.8	3.9	673	44	107	76	57	8.4	3.9	.84	.74
13	1.9	3.4	3.9	387	1860	98	71	52	7.4	3.5	.88	.68
14	2.0	3.1	3.9	1150	964	91	67	48	7.7	3.3	1.0	.68
15	2.0	3.1	3.9	788	761	112	63	44	7.7	3.2	1.1	.69
16	1.9	3.1	3.9	300	1120	109	66	41	7.6	3.0	1.1	.64
17	2.0	3.0	5.4	196	501	108	62	39	8.1	3.0	1.0	.65
18	2.0	2.9	6.9	147	1260	91	56	36	8.1	2.8	.99	.74
19	2.1	6.5	5.3	112	667	85	52	34	7.7	2.7	.94	.73
20	2.1	11	4.6	90	1100	80	50	33	7.5	2.6	.95	.69
21	2.1	7.2	4.5	78	1130	80	48	33	6.9	2.5	.97	.67
22	2.1	8.0	4.4	69	1020	71	58	32	6.3	2.5	.96	.68
23	2.1	6.6	4.3	61	740	64	102	30	6.5	2.4	.93	.70
24	2.2	5.3	4.2	56	482	60	140	27	6.5	2.4	.87	.66
25	2.2	4.7	4.2	51	371	56	76	26	6.4	2.2	.84	.77
26	2.3	4.5	4.2	47	474	122	116	24	6.2	2.1	.79	.94
27	2.2	4.4	4.2	44	298	1690	137	22	6.1	2.1	.68	.74
28	2.2	4.2	4.2	42	932	796	96	21	5.5	2.0	.68	.66
29	2.2	4.2	4.2	39	---	433	80	20	5.1	1.8	.74	.62
30	2.1	4.9	4.2	48	---	312	70	19	4.9	1.7	.78	.58
31	2.1	---	4.1	54	---	254	---	18	---	1.6	.82	---
TOTAL	63.7	118.0	133.4	7256.5	14111	8226	2922	1549	264.9	102.7	31.86	22.51
MEAN	2.05	3.93	4.30	234	504	265	97.4	50.0	8.83	3.31	1.03	.75
MAX	2.3	11	6.9	2180	1860	1690	216	131	17	5.0	1.6	1.1
MIN	1.9	2.2	3.8	4.0	30	56	48	18	4.9	1.6	.68	.58
AC-FT	126	234	265	14390	27990	16320	5800	3070	525	204	63	45

CAL YR 1978 TOTAL 87526.40 MEAN 240 MAX 6420 MIN 1.3 AC-FT 173600
WTR YR 1979 TOTAL 34801.57 MEAN 95.3 MAX 2180 MIN .58 AC-FT 69030

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: May 1965 to March 1979 (discontinued).

INSTRUMENTATION.--Temperature recorder since May 1965.

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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 35.0°C Aug. 29, 1977; minimum recorded, 2.0°C Dec. 10, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 25.0°C Oct. 1-3; minimum for period recorded, 2.5°C Dec. 31, Jan. 1.

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO APRIL 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25.0	18.0	16.0	11.0	13.0	10.5	6.5	2.5	8.0	5.0	11.0	9.5
2	25.0	18.0	16.0	10.5	12.0	9.0	7.0	4.0	8.5	4.5	11.0	10.0
3	25.0	18.0	16.0	11.0	11.0	7.5	7.0	4.5	9.0	4.0	11.5	10.5
4	24.5	18.0	17.0	12.0	10.5	7.5	10.5	7.0	10.0	5.0	14.0	11.5
5	23.0	18.0	18.0	13.5	10.5	8.0	9.5	7.0	11.0	6.0	15.5	11.0
6	24.0	18.5	16.5	12.0	10.0	6.5	9.0	6.5	12.0	7.0	17.0	12.0
7	23.5	17.0	16.5	12.0	8.5	5.0	8.5	7.5	12.0	7.5	17.5	12.5
8	22.5	16.0	16.0	11.5	8.5	5.0	9.5	8.5	12.0	8.5	17.5	13.0
9	23.0	17.0	16.5	13.0	9.5	6.5	11.0	9.0	12.5	9.5	16.5	13.5
10	23.0	16.0	14.5	10.0	10.0	6.5	10.5	9.5	12.5	10.5	15.5	14.0
11	23.0	16.0	13.0	8.5	11.0	8.5	10.5	10.0	12.5	10.5	16.5	13.0
12	23.5	16.5	11.0	8.0	11.5	9.0	10.5	9.5	11.5	10.5	18.0	13.5
13	23.5	16.0	13.0	10.5	11.0	8.0	10.5	9.5	11.0	10.5	14.5	13.5
14	22.0	16.5	11.5	8.5	10.0	6.5	10.0	9.0	11.0	10.0	14.5	13.5
15	23.0	17.0	11.5	7.5	9.5	6.5	10.0	8.5	11.0	10.0	15.0	12.5
16	22.5	17.0	13.0	11.0	8.5	5.0	9.5	8.5	11.5	10.0	13.5	12.0
17	23.0	17.0	13.0	10.0	9.0	8.0	9.5	8.0	11.5	9.5	16.0	11.5
18	22.0	17.5	13.0	11.0	10.0	7.0	10.0	7.5	11.5	10.0	15.0	12.0
19	20.0	17.0	13.0	12.0	9.0	5.5	9.5	7.0	11.5	10.5	17.5	11.0
20	21.5	17.0	14.0	12.5	8.0	4.5	9.5	7.0	11.0	10.5	17.0	11.5
21	21.0	16.0	14.0	12.5	8.5	4.5	10.5	8.0	12.0	10.5	14.0	12.5
22	21.0	15.5	13.5	11.5	8.5	5.5	9.5	7.5	12.0	10.5	15.5	12.0
23	20.5	14.0	13.5	9.5	8.5	5.5	10.0	7.5	12.0	10.0	18.0	11.5
24	19.5	14.0	13.0	10.0	9.0	7.0	10.5	7.5	13.0	10.0	19.0	12.0
25	19.0	14.5	13.0	9.5	8.5	6.5	9.0	6.0	13.0	10.5	18.5	12.5
26	20.0	15.5	12.5	9.0	8.0	6.5	8.5	4.5	14.0	11.0	15.0	13.5
27	19.0	14.0	12.0	8.5	8.0	6.5	9.0	5.0	13.0	9.5	14.0	13.0
28	18.5	13.5	13.0	9.5	9.0	6.5	8.5	4.5	11.5	10.5	14.0	12.5
29	18.0	13.5	14.5	11.0	8.5	5.5	7.5	3.5	---	---	15.0	12.0
30	17.0	12.0	13.5	11.0	7.0	3.5	6.0	5.5	---	---	16.5	11.0
31	15.5	11.0	---	---	6.5	2.5	8.0	5.5	---	---	17.5	11.0
MONTH	25.0	11.0	18.0	7.5	13.0	2.5	11.0	2.5	14.0	4.0	19.0	9.5

11464860 WARM SPRINGS CREEK NEAR ASTI, CA

LOCATION.--Lat 38°41'46", long 123°05'44", in SW¼SE¼ sec.20, T.10 N., R.11 W., Sonoma County, Hydrologic Unit 18010110, on left bank 0.6 mi (1.0 km) upstream from Strawberry Creek, and 7.9 mi (12.7 km) southwest of Asti.

DRAINAGE AREA.--12.2 mi² (31.6 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 625 ft (191 m), from topographic map.

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

AVERAGE DISCHARGE.--6 years, 26.9 ft³/s (0.762 m³/s), 19,490 acre-ft/yr (24.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft³/s (65.7 m³/s) Jan. 14, 1978, gage height, 9.82 ft (2.993 m); no flow many days in 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,030 ft³/s (29.2 m³/s) Jan. 11 (0715 hrs), gage height, 7.38 ft (2.249 m), no other peak above base of 900 ft³/s (25 m³/s); minimum daily, 0.20 ft³/s (0.006 m³/s) Sept. 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	.52	1.4	1.1	6.3	146	42	18	4.1	1.6	.60	.37
2	.54	.52	1.2	1.1	5.7	97	37	16	3.9	1.6	.59	.37
3	.53	.52	1.1	1.1	5.2	75	32	15	3.9	1.6	.61	.37
4	.52	.52	1.1	1.4	5.0	59	28	14	3.7	1.6	.63	.37
5	.54	.58	1.1	1.5	4.8	49	25	25	3.5	1.6	.62	.33
6	.56	.58	1.1	1.3	4.6	42	26	20	3.3	1.6	.56	.33
7	.58	.58	.99	3.2	4.5	37	22	20	3.1	1.5	.49	.33
8	.57	.58	.97	38	4.3	34	19	18	3.0	1.5	.47	.33
9	.57	.52	1.0	14	4.3	30	18	16	2.8	1.5	.46	.33
10	.50	.58	1.0	78	4.3	26	16	14	2.6	1.5	.43	.33
11	.49	.58	1.1	482	4.2	24	16	13	2.5	1.4	.41	.33
12	.48	1.4	1.1	130	8.7	22	14	12	2.5	1.2	.40	.33
13	.47	1.4	1.1	72	204	20	13	11	2.5	1.2	.44	.33
14	.46	1.0	1.0	277	105	18	13	10	2.5	1.1	.46	.31
15	.47	.92	1.0	139	99	25	12	9.9	2.5	1.1	.50	.28
16	.50	.92	1.1	70	215	22	13	9.3	2.5	1.1	.52	.28
17	.53	.92	2.2	41	110	20	11	8.6	2.4	1.1	.43	.28
18	.54	1.0	1.6	27	152	18	10	8.0	2.4	.99	.40	.28
19	.51	2.6	1.3	19	97	17	9.7	7.7	2.3	.97	.39	.25
20	.55	3.7	1.2	15	197	16	9.4	7.6	2.2	.93	.42	.20
21	.56	1.4	1.2	13	202	15	9.0	7.5	2.1	.93	.45	.20
22	.55	1.7	1.2	11	171	14	13	7.0	2.0	.94	.46	.21
23	.48	1.3	1.2	9.5	124	13	36	6.6	2.0	.89	.44	.23
24	.45	1.1	1.2	8.6	91	13	26	6.2	2.0	.84	.44	.23
25	.47	1.0	1.2	7.9	78	12	18	5.8	2.0	.79	.41	.44
26	.50	1.0	1.2	6.9	68	37	30	5.5	2.0	.80	.37	.46
27	.54	1.0	1.2	6.4	55	275	32	5.2	1.9	.84	.37	.40
28	.48	.92	1.2	6.0	156	144	26	5.0	1.8	.78	.37	.36
29	.45	.92	1.2	5.6	---	86	23	4.8	1.7	.71	.35	.32
30	.47	1.0	1.2	7.3	---	63	20	4.6	1.6	.67	.36	.31
31	.50	---	1.2	7.0	---	50	---	4.4	---	.62	.37	---
TOTAL	15.90	31.28	36.86	1501.9	2185.9	1519	619.1	335.7	77.3	35.50	14.22	9.49
MEAN	.51	1.04	1.19	48.4	78.1	49.0	20.6	10.8	2.58	1.15	.46	.32
MAX	.58	3.7	2.2	482	215	275	42	25	4.1	1.6	.63	.46
MIN	.45	.52	.97	1.1	4.2	12	9.0	4.4	1.6	.62	.35	.20
AC-FT	32	62	73	2980	4340	3010	1230	666	153	70	28	19
CAL YR 1978 TOTAL	16520.11			MEAN 45.3	MAX 1080	MIN .45	AC-FT 32770					
WTR YR 1979 TOTAL	6382.15			MEAN 17.5	MAX 482	MIN .20	AC-FT 12660					

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 (1.8 km) upstream from mouth, and 3.7 mi (6.0 km) west of Geyserville.

DRAINAGE AREA.--22.3 mi² (57.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1979.

GAGE.--Water-stage recorder. Altitude of gage is 195 ft (59.4 m), from topographic map.

REMARKS.--Records good. No regulation; some small diversion for irrigation of less than 200 acres (0.81 km²) in summer months.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,000 ft³/s (28.3 m³/s) Jan. 11 (0800 hrs), gage height, 5.60 ft (1.707 m), no other peak above base of 950 ft³/s (27 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	7.3	148	50	24	3.9			
2				0	6.5	114	45	22	3.7			
3				0	5.9	97	40	20	3.2			
4				0	5.6	79	39	18	3.4			
5				0	5.3	68	35	24	2.9			
6				0	5.1	59	35	22	2.4			
7				.33	4.8	52	31	24	2.0			
8				42	4.6	47	28	20	1.7			
9				17	4.4	43	25	18	1.4			
10				46	4.1	39	24	17	1.2			
11				407	4.1	36	23	16	1.1			
12				60	5.2	34	21	14	.88			
13				30	379	31	20	13	.86			
14				241	179	29	19	12	.68			
15				245	119	33	18	11	.68			
16				83	233	32	18	11	.59			
17				54	132	30	17	10	.52			
18				38	197	28	15	9.5	.46			
19				29	140	26	15	8.5	.45			
20				22	227	25	14	8.5	.32			
21				16	274	23	13	8.5	.13			
22				11	215	22	18	8.5	.04			
23				8.0	169	20	36	7.9	0			
24				7.5	127	20	38	7.4	0			
25				7.1	102	19	24	6.7	0			
26				6.1	97	29	36	6.0	0			
27				5.5	76	303	43	5.3	0			
28				5.2	124	150	34	5.1	0			
29				4.9	---	98	30	4.9	0			
30				7.4	---	76	27	4.8	0			
31		---		9.0	---	61	---	4.4	---			---
TOTAL	0	0	0	1402.03	2852.9	1871	831	392.0	32.51	0	0	0
MEAN	0	0	0	45.2	102	60.4	27.7	12.6	1.08	0	0	0
MAX	0	0	0	407	379	303	50	24	3.9	0	0	0
MIN	0	0	0	0	4.1	19	13	4.4	0	0	0	0
AC-FT	0	0	0	2780	5660	3710	1650	778	64	0	0	0
WTR YR 1979	TOTAL	7381.44	MEAN	20.2	MAX	407	MIN	0	AC-FT	14640		

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to September 1979.

WATER TEMPERATURES: October 1978 to September 1979.

SEDIMENT RECORDS: October 1978 to September 1979.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1978 to September 1979.

SEDIMENT RECORDS: October 1978 to September 1979.

REMARKS.--Sediment table omitted for periods of no flow Oct. 1 to Dec. 31 and July 1 to Sept. 30. Zero bedload discharge observed at flows less than 41 ft³/s (1.16 m³/s).

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 949 mg/L February 13; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE: Maximum daily, 1,680 tons (1,520 metric tons) January 11; minimum daily, 0 ton (0 metric ton) many days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				---	2.5	10.0	---	15.5	---			
2				---	---	---	---	20.0	---			
3				---	7.5	11.0	12.0	---	17.5			
4				---	---	13.5	---	---	---			
5				---	9.5	---	14.0	17.5	---			
6				---	---	---	---	---	---			
7				---	9.0	16.0	---	---	21.0			
8				9.0	---	---	---	16.5	---			
9				9.0	10.0	---	---	---	---			
10				9.5	---	13.0	14.0	---	---			
11				12.0	10.5	---	---	21.5	---			
12				10.0	---	15.5	---	---	14.0			
13				---	10.0	---	---	21.0	---			
14				9.0	8.0	---	---	---	---			
15				9.0	9.5	11.5	16.5	---	---			
16				6.5	10.5	---	---	---	---			
17				5.0	9.5	12.0	---	---	---			
18				6.5	---	---	13.0	---	---			
19				8.0	---	---	---	---	26.0			
20				---	9.5	12.5	---	17.0	---			
21				10.0	8.5	---	14.0	---	---			
22				---	8.5	---	14.5	20.5	---			
23				5.0	7.5	13.0	---	---	---			
24				8.0	---	---	16.0	---	---			
25				---	11.5	---	---	---	---			
26				---	9.0	---	---	19.0	---			
27				6.0	11.5	10.0	14.5	---	---			
28				---	10.0	12.0	17.0	---	---			
29				5.0	---	---	---	18.5	---			
30				---	---	12.0	17.0	---	---			
31				5.0	---	---	---	---	---			

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	0	0	0	7.3	2	.04	148	84	36	
2	0	0	0	6.5	1	.02	114	21	6.5	
3	0	0	0	5.9	1	.02	97	9	2.4	
4	0	0	0	5.6	1	.02	79	5	1.1	
5	0	0	0	5.3	1	.01	68	3	.55	
6	0	0	0	5.1	1	.01	59	2	.32	
7	.33	3	.02	4.8	1	.01	52	2	.28	
8	42	262	46	4.6	1	.01	47	2	.25	
9	17	36	2.1	4.4	1	.01	43	1	.12	
10	46	62	21	4.1	1	.01	39	1	.11	
11	407	948	1680	4.1	1	.01	36	1	.10	
12	60	27	5.5	5.2	5	.07	34	1	.09	
13	30	7	.57	379	949	1610	31	1	.08	
14	241	528	738	179	158	94	29	1	.08	
15	245	370	337	119	56	22	33	3	.31	
16	83	31	6.9	233	305	222	32	2	.17	
17	54	8	1.2	132	46	16	30	1	.08	
18	38	4	.41	197	267	178	28	1	.08	
19	29	8	.63	140	68	26	26	1	.07	
20	22	6	.36	227	397	392	25	1	.07	
21	16	2	.09	274	357	297	23	1	.06	
22	11	2	.06	215	184	119	22	1	.06	
23	8.0	2	.04	169	53	24	20	1	.05	
24	7.5	10	.20	127	20	6.9	20	1	.05	
25	7.1	8	.15	102	14	3.9	19	1	.05	
26	6.1	4	.07	97	16	4.5	29	9	2.2	
27	5.5	3	.04	76	6	1.2	303	532	603	
28	5.2	2	.03	124	163	86	150	54	22	
29	4.9	4	.05	---	---	---	98	16	4.2	
30	7.4	5	.10	---	---	---	76	6	1.2	
31	9.0	2	.05	---	---	---	61	4	.66	
TOTAL	1402.03	---	2840.57	2852.9	---	3102.74	1871	---	682.29	
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	50	3	.41	24	2	.13	3.9	2	.02	
2	45	2	.24	22	1	.06	3.7	2	.02	
3	40	2	.22	20	1	.05	3.2	3	.03	
4	39	2	.21	18	1	.05	3.4	3	.03	
5	35	3	.28	24	4	.26	2.9	3	.02	
6	35	2	.19	22	3	.18	2.4	3	.02	
7	31	2	.17	24	2	.13	2.0	4	.02	
8	28	2	.15	20	1	.05	1.7	3	.01	
9	25	2	.14	18	1	.05	1.4	3	.01	
10	24	1	.06	17	2	.09	1.2	2	.01	
11	23	1	.06	16	2	.09	1.1	2	.01	
12	21	1	.06	14	2	.08	.88	2	0	
13	20	1	.05	13	1	.04	.86	2	0	
14	19	1	.05	12	1	.03	.68	2	0	
15	18	1	.05	11	1	.03	.68	1	0	
16	18	1	.05	11	1	.03	.59	1	0	
17	17	1	.05	10	1	.03	.52	1	0	
18	15	1	.04	9.5	1	.03	.46	1	0	
19	15	1	.04	8.5	1	.02	.45	1	0	
20	14	1	.04	8.5	1	.02	.32	1	0	
21	13	1	.04	8.5	1	.02	.13	1	0	
22	18	2	.10	8.5	3	.07	.04	1	0	
23	36	7	.68	7.9	2	.04	0	0	0	
24	38	6	.62	7.4	2	.04	0	0	0	
25	24	3	.19	6.7	1	.02	0	0	0	
26	36	5	.49	6.0	1	.02	0	0	0	
27	43	4	.46	5.3	1	.01	0	0	0	
28	34	3	.28	5.1	1	.01	0	0	0	
29	30	3	.24	4.9	2	.03	0	0	0	
30	27	2	.15	4.8	2	.03	0	0	0	
31	---	---	---	4.4	2	.02	---	---	---	
TOTAL	431	---	5.41	392.0	---	1.76	32.51	---	.20	
YEAR	7381.44	---	6633.37							

RUSSIAN RIVER BASIN

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1978	0.0	0.0	0	0
NOVEMBER ...	0.0	0.0	0	0
DECEMBER ...	0.0	0.0	0	0
JANUARY 1979	1402.03	2840.57	485	3330
FEBRUARY ...	2852.90	3102.74	1040	4140
MARCH	1871.00	682.29	311	993
APRIL	831.00	5.81	5	11
MAY	392.00	1.76	0	2
JUNE	32.51	0.20	0	0
JULY	0.0	0.0	0	0
AUGUST	0.0	0.0	0	0
SEPTEMBER ..	0.0	0.0	0	0
TOTAL	7381.44	6633.37	1841	8476

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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
JAN 09...	1130	9.0	18	17	.83	--	--	--
11...	1120	12.0	776	1530	3210	32	42	55
FEB 13...	1220	10.0	872	2980	7020	23	31	41
MAR 27...	1245	10.0	501	1320	1790	26	37	48
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
JAN 09...		--	86	96	96	100	--	--
11...		70	80	89	95	99	100	--
FEB 13...		52	62	73	84	96	99	100
MAR 27...		62	71	81	90	99	100	--

RUSSIAN RIVER BASIN

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED	BED	BED	BED			
				MAT. SIEVE DIAM. % FINER THAN .062 MM	MAT. SIEVE DIAM. % FINER THAN .125 MM	MAT. SIEVE DIAM. % FINER THAN .250 MM	MAT. SIEVE DIAM. % FINER THAN .500 MM			
DEC										
19...	1250	1	.00	--	1	3	16			
19...	1255	1	.00	1	1	3	13			
19...	1300	1	.00	1	2	5	12			
19...	1305	1	.00	1	3	8	14			
19...	1310	1	.00	1	3	9	15			
AUG										
07...	1050	1	.00	1	1	4	10			
07...	1055	1	.00	--	1	1	5			
07...	1100	1	.00	1	1	2	5			
07...	1105	1	.00	1	2	2	2			
07...	1110	1	.00	1	3	8	13			
07...	1115	1	.00	18	51	94	100			
DATE				BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
DEC										
19...	28	40	51	65	81	94	100			
19...	27	38	47	58	72	95	100			
19...	24	36	48	62	74	94	100			
19...	19	28	40	58	81	100	--			
19...	20	28	40	55	77	96	100			
AUG										
07...	16	24	33	46	72	90	100			
07...	11	17	22	28	37	77	100			
07...	11	19	25	34	49	55	100			
07...	2	10	30	58	81	100	--			
07...	19	27	37	48	62	75	100			
07...	--	--	--	--	--	--	--			

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 (0.5 km) downstream from Pena Creek, and 3 mi (5 km) west of Geyserville.

DRAINAGE AREA.--162 mi² (420 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 158.40 ft (48.280 m), National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1964, at datum 2.00 ft (0.610 m) higher. Oct. 1, 1964, to Apr. 8, 1976, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair. No regulation; small diversions above station for orchard irrigation of about 1,200 acres (4.86 km²) in summer.

AVERAGE DISCHARGE.--20 years, 312 ft³/s (8.836 m³/s), 226,000 acre-ft/yr (279 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,400 ft³/s (918 m³/s) Jan. 31, 1963, gage height, 18.50 ft (5.639 m) present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,920 ft³/s (224 m³/s) Jan. 11, gage height, 10.56 ft (3.219 m), no peak above base of 8,200 ft³/s (232 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.8	7.4	6.8	113	1790	459	149	28	10	.28	
2	1.9	1.8	7.1	6.2	102	1270	367	134	27	9.9	.26	
3	1.7	1.5	7.1	5.5	93	1090	300	118	30	6.4	.25	
4	1.6	1.4	6.5	5.6	89	877	257	107	28	13	.24	
5	2.0	1.4	6.0	8.8	86	691	227	199	25	9.7	.23	
6	2.1	1.4	5.6	11	82	548	236	204	21	7.2	.23	
7	1.9	1.3	5.5	12	79	465	198	258	19	7.0	.22	
8	1.9	1.0	5.4	272	76	409	167	194	21	7.9	.21	
9	2.0	.87	5.1	180	74	358	147	160	19	8.1	.19	
10	2.0	.75	5.1	411	74	315	132	137	21	7.6	0	
11	1.9	.90	5.4	4480	74	283	130	117	17	7.2	0	
12	1.6	1.4	5.5	1120	81	253	119	105	15	6.5	0	
13	2.3	3.2	4.7	499	3230	229	109	98	14	5.2	0	
14	2.5	3.8	5.1	2140	1980	204	101	87	14	4.4	0	
15	2.7	3.8	5.0	2110	1410	244	94	80	13	3.9	0	
16	2.6	3.2	4.5	994	2410	239	97	76	14	3.3	0	
17	2.3	2.9	6.7	610	1400	240	95	73	16	2.8	0	
18	2.2	2.9	10	419	2190	201	84	65	14	2.5	0	
19	2.1	3.7	11	302	1570	184	76	64	13	2.2	0	
20	2.2	14	9.0	252	2080	164	71	63	12	1.9	0	
21	2.2	17	6.1	220	2280	161	68	62	12	1.6	0	
22	2.2	13	7.0	149	2040	144	88	58	12	1.4	0	
23	2.0	13	8.2	155	1650	129	200	53	12	1.3	0	
24	1.8	11	7.8	140	1250	117	299	50	13	1.1	0	
25	1.8	8.4	7.4	135	1020	111	148	46	14	1.0	0	
26	1.8	7.2	7.2	120	1110	173	221	45	12	.86	0	
27	1.7	6.7	7.4	110	839	2900	307	44	11	.75	0	
28	1.7	6.4	7.1	103	1540	1710	224	42	9.4	.56	0	
29	1.7	6.1	7.0	96	---	1100	184	37	8.5	.43	0	
30	1.6	6.0	6.7	105	---	805	162	34	8.5	.35	0	
31	1.6	---	6.8	136	---	589	---	31	---	.30	0	---
TOTAL	61.9	147.82	206.4	15313.9	29022	17993	5367	2990	493.4	136.35	2.11	0
MEAN	2.00	4.93	6.66	494	1037	580	179	96.5	16.4	4.40	.068	0
MAX	2.7	17	11	4480	3230	2900	459	258	30	13	.28	0
MIN	1.6	.75	4.5	5.5	74	111	68	31	8.5	.30	0	0
AC-FT	123	293	409	30380	57570	35690	10650	5930	979	270	4.2	0

CAL YR 1978 TOTAL 144782.09 MEAN 397 MAX 11600 MIN .37 AC-FT 287206
WTR YR 1979 TOTAL 71733.88 MEAN 197 MAX 4480 MIN 0 AC-FT 142300

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.
 CHEMICAL ANALYSES: Water years 1971 to current year.
 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.

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. Where no maximum or minimum is shown, temperature is once-daily reading. Zero bedload discharge observed at flows less than $19 \text{ ft}^3/\text{s}$ ($0.54 \text{ m}^3/\text{s}$).

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 26.5°C Aug. 11, 1971, Aug. 23, 1974; 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 for many days in 1964, 1966, 1970-79.

SEDIMENT DISCHARGE: Maximum daily, 830,000 tons (753,000 metric tons), estimated, Dec. 22, 1964; minimum daily, 0 ton (0 metric ton) many days in 1964, 1966, 1968-79.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 25.5°C July 10-13; minimum recorded, 5.5°C Feb. 1, 3.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,920 mg/L Jan. 11; minimum daily mean, no flow for many days.

SEDIMENT DISCHARGE: Maximum daily, 41,500 tons (37,600 metric tons) Jan. 11; minimum daily, 0 ton (0 metric ton) many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS AS CaCO3 (MG/L)	HARDNESS, NONCARBONATE (MG/L CaCO3)	CALCIUM DISSOLVED (MG/L AS Ca)	MAGNESIUM, DISSOLVED (MG/L AS Mg)	SODIUM, DISSOLVED (MG/L AS Na)
JAN 16...	1340	980	166	7.2	10.0	76	10.8	68	8	14	7.9	8.3
MAR 14...	1145	202	222	7.9	12.5	32	10.4	96	2	22	10	9.5
JUN 13...	1030	14	251	7.6	18.5	1.1	9.1	110	3	24	13	13
JUL 11...	0945	7.4	269	6.5	19.5	1.0	8.0	120	0	24	14	15

DATE	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY AS CaCO3 (MG/L)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED AS SiO2 (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)
JAN 16...	21	.4	.6	60	14	5.1	.1	15	103	.14	273	.40
MAR 14...	18	.4	.6	94	13	4.7	.2	16	132	.18	72.0	.14
JUN 13...	20	.5	1.0	110	20	5.1	.2	13	156	.21	5.90	.09
JUL 11...	21	.6	--	120	20	4.2	.2	18	170	.23	3.40	--

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)
JAN 16...	.30	.08	.00	.76	.60	.84	.60	1.2	.14	.01	2.4	1.1
MAR 14...	.10	.01	.03	.13	.06	.14	.09	.28	.03	.01	1.1	--
JUN 13...	.11	.01	.00	.27	.30	.28	.30	.37	.02	.00	1.7	--
JUL 11...	--	.01	.03	.04	.06	.05	.09	--	.01	.00	3.0	--

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	ARSENIC TOTAL (UG/L AS AS)		ARSENIC IN BOT-TOM MATERIAL (UG/G AS AS)		MORON. DIS-SOLVED (UG/L AS B)		CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)		CADMIUM FM HOT-TOM MATERIAL (UG/L AS CU)		CHROMIUM, TOTAL RECOV-ERABLE (UG/L AS CR)		CHROMIUM, FM BOT-TOM MATERIAL (UG/G)		COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)		COPPER, DIS-SOLVED (UG/L AS CU)	
	JAN 16...	1	1	0	200	0	<1	0	20	0	20	0	20	11	2			
MAR 14...	1	1	9	210	0	0	0	10	0	24	8	0						
JUN 13...	3	1	4	410	0	1	0	0	0	24	2	0						
JUL 11...	0	0	--	620	0	<1	0	0	0	28	9	2						

DATE	COPPER, RECOV. FM BOT-TOM MATERIAL (UG/G AS CU)		IRON, DIS-SOLVED (UG/L AS FE)		LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)		LEAD, DIS-SOLVED (UG/L AS PB)		LEAD, FM BOT-TOM MATERIAL (UG/G AS PB)		MANGANESE, RECOV. FM BOT-TOM MATERIAL (UG/G)		MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)		MERCURY DIS-SOLVED (UG/L AS HG)		MERCURY FM BOT-TOM MATERIAL (UG/G AS HG)		ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)		ZINC, DIS-SOLVED (UG/L AS ZN)		ZINC, FM BOT-TOM MATERIAL (UG/G AS ZN)	
	JAN 16...	14	20	2	1	10	360	.0	.0	.04	40	<3	20											
MAR 14...	22	20	18	0	0	390	.0	.0	.50	20	0	30												
JUN 13...	11	10	20	5	0	290	.0	.0	.04	20	10	23												
JUL 11...	16	10	8	2	0	490	.0	.0	--	40	<3	24												

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	17.5	15.0	11.5	14.0	12.0	9.5	7.5	7.0	5.5	10.0	8.0
2	21.0	17.5	14.5	12.5	13.0	11.0	10.0	8.5	8.0	6.0	9.5	8.5
3	21.0	17.5	15.0	13.0	12.5	11.0	10.5	9.0	8.0	5.5	10.0	9.0
4	20.5	17.5	15.5	13.5	13.0	11.5	12.0	10.0	9.0	6.5	11.5	9.5
5	19.0	17.5	16.0	14.5	12.0	11.5	12.0	10.0	10.0	7.5	13.0	9.5
6	19.5	17.0	15.5	14.0	11.0	9.5	12.0	10.0	10.5	8.0	15.0	11.0
7	19.5	16.5	16.0	14.0	10.5	8.5	11.5	11.0	10.5	8.5	15.5	11.5
8	19.5	16.5	15.5	14.0	10.0	8.5	11.0	10.0	10.5	8.5	16.0	11.5
9	19.0	16.0	16.5	14.5	11.0	9.5	11.5	10.0	11.5	9.5	14.5	12.0
10	19.0	16.5	15.0	13.0	11.5	9.5	11.5	11.0	11.5	10.5	13.5	12.0
11	19.5	17.0	13.5	12.0	12.5	10.5	---	---	11.0	10.0	13.0	11.5
12	20.0	17.0	12.5	11.0	12.5	11.0	---	---	10.5	9.0	16.0	11.0
13	19.5	17.0	13.5	12.0	12.0	10.5	---	---	10.0	9.0	14.5	12.5
14	20.0	17.5	13.0	11.5	12.0	10.0	---	---	10.0	9.0	12.5	12.0
15	20.0	18.0	13.5	11.0	11.5	10.0	10.5	9.5	10.0	9.0	13.0	11.5
16	20.0	17.5	13.5	12.5	11.0	9.0	10.5	9.0	9.5	8.0	12.0	10.5
17	19.5	17.0	14.0	12.0	11.5	10.5	9.0	7.5	9.5	8.5	14.0	10.0
18	19.0	17.5	13.0	12.0	11.0	9.5	9.5	8.0	9.5	8.5	13.5	11.0
19	18.0	17.0	14.0	12.5	10.0	8.5	9.5	7.5	10.0	8.5	15.5	10.5
20	18.5	17.0	14.5	13.5	10.0	8.0	9.5	7.5	9.5	8.5	15.0	11.5
21	18.5	16.5	14.0	13.0	10.5	8.5	10.5	8.5	10.0	8.5	12.5	11.5
22	18.0	16.0	14.0	12.5	10.5	8.5	---	---	10.5	9.5	13.5	11.5
23	18.0	16.0	13.5	11.5	10.0	8.5	---	---	10.5	10.0	16.5	11.0
24	17.5	15.5	13.0	11.5	10.5	9.5	---	---	10.5	9.5	16.5	11.5
25	17.5	15.5	13.0	11.0	11.0	9.5	9.0	7.5	10.5	9.0	17.0	12.0
26	17.5	15.5	13.0	11.0	10.5	9.5	8.5	6.5	10.5	8.5	14.0	12.5
27	17.0	15.5	13.0	11.0	11.0	9.5	9.0	7.0	11.0	8.0	13.0	12.0
28	17.0	14.5	13.5	11.5	11.0	9.5	8.5	6.5	10.0	9.0	13.0	11.5
29	16.5	14.5	14.5	12.0	11.0	8.5	8.0	6.0	---	---	14.0	11.0
30	16.0	14.0	14.0	13.0	10.0	8.0	7.5	6.0	---	---	15.0	10.5
31	15.5	13.5	---	---	9.5	7.5	8.0	6.0	---	---	16.0	11.0
MONTH	21.0	13.5	16.5	11.0	14.0	7.5	---	---	11.5	5.5	17.0	8.0

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	11.5	19.0	15.0	---	---	24.5	18.5	---	---	21.0	20.0
2	16.5	11.5	21.5	15.0	---	---	23.5	19.0	---	---	21.5	19.5
3	17.5	12.5	21.0	16.5	---	---	23.5	18.0	---	---	21.5	20.0
4	18.0	13.0	19.5	15.5	---	---	24.5	19.5	---	---	22.0	20.0
5	17.5	13.5	18.5	16.0	---	---	24.5	19.0	---	---	22.0	20.0
6	17.0	14.0	17.0	14.5	---	---	24.5	19.0	---	---	22.0	20.0
7	19.0	13.0	18.0	14.0	---	---	24.5	19.0	---	---	22.0	20.0
8	18.5	14.5	19.0	13.5	---	---	25.0	19.5	---	---	22.0	20.5
9	18.0	13.5	20.0	14.0	23.5	18.5	23.5	19.5	---	---	22.0	20.5
10	17.5	12.5	21.5	15.0	23.5	18.0	25.5	20.5	---	---	22.0	20.0
11	18.5	14.0	22.0	15.5	23.5	18.0	25.5	19.5	---	---	22.0	20.5
12	19.0	13.5	18.0	16.5	23.5	18.0	25.5	20.0	---	---	23.0	20.0
13	19.5	14.0	---	---	23.5	18.0	25.5	19.5	---	---	---	---
14	19.5	13.5	---	---	23.0	17.0	24.5	20.0	---	---	---	---
15	19.5	14.5	---	---	23.0	17.5	24.0	19.5	---	---	---	---
16	17.5	15.0	---	---	22.5	17.5	---	---	---	---	---	---
17	18.0	13.5	---	---	21.5	17.0	---	---	---	---	---	---
18	18.0	12.5	---	---	23.0	17.0	---	---	---	---	---	---
19	18.0	13.0	---	---	23.5	18.0	---	---	---	---	---	---
20	18.5	13.0	---	---	23.5	18.5	---	---	---	---	---	---
21	18.5	13.5	---	---	23.5	18.0	---	---	---	---	---	---
22	18.5	15.0	---	---	24.5	18.5	---	---	22.0	20.0	---	---
23	17.5	14.0	---	---	24.5	18.5	---	---	22.0	20.0	---	---
24	18.5	13.5	---	---	23.5	19.0	---	---	22.0	20.0	---	---
25	18.5	14.5	---	---	24.0	19.0	---	---	22.0	20.0	---	---
26	16.5	15.0	---	---	24.0	19.0	---	---	22.0	20.0	---	---
27	20.0	14.5	---	---	24.0	18.5	---	---	22.0	20.0	---	---
28	20.0	13.5	---	---	24.0	18.5	---	---	22.0	20.0	---	---
29	18.5	14.5	---	---	24.0	16.5	---	---	22.0	20.5	---	---
30	20.0	14.5	---	---	24.0	18.0	---	---	22.0	20.5	---	---
31	---	---	---	---	---	---	---	---	22.0	20.0	---	---
MONTH	20.0	11.5	---	---	---	---	---	---	---	---	---	---
YEAR	25.5	5.5										

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	2.3	2	.01	1.8	1	0	7.4	4	.08
2	1.9	2	.01	1.8	1	0	7.1	3	.06
3	1.7	2	.01	1.5	1	0	7.1	2	.04
4	1.6	2	.01	1.4	1	0	6.5	1	.02
5	2.0	2	.01	1.4	1	0	6.0	3	.05
6	2.1	2	.01	1.4	1	0	5.6	3	.05
7	1.9	1	.01	1.3	1	0	5.5	2	.03
8	1.9	1	.01	1.0	1	0	5.4	3	.04
9	2.0	1	.01	.87	1	0	5.1	5	.07
10	2.0	1	.01	.75	1	0	5.1	4	.06
11	1.9	1	.01	.90	1	0	5.4	3	.04
12	1.6	1	0	1.4	2	.01	5.5	2	.03
13	2.3	2	.01	3.2	3	.03	4.7	2	.03
14	2.5	2	.01	3.8	3	.03	5.1	2	.03
15	2.7	3	.02	3.8	2	.02	5.0	7	.09
16	2.6	2	.01	3.2	2	.02	4.5	5	.06
17	2.3	2	.01	2.9	2	.02	6.7	8	.14
18	2.2	2	.01	2.9	2	.02	10	12	.32
19	2.1	2	.01	3.7	2	.02	11	4	.12
20	2.2	2	.01	14	39	1.9	9.0	4	.10
21	2.2	1	.01	17	34	1.6	6.1	9	.15
22	2.2	1	.01	13	24	.84	7.0	17	.32
23	2.0	1	.01	13	18	.63	8.2	14	.31
24	1.8	1	0	11	11	.37	7.8	9	.19
25	1.8	1	0	8.4	7	.16	7.4	6	.12
26	1.8	1	0	7.2	5	.10	7.2	5	.10
27	1.7	1	0	6.7	3	.05	7.4	4	.08
28	1.7	1	0	6.4	2	.03	7.1	3	.06
29	1.7	1	0	6.1	2	.03	7.0	2	.04
30	1.6	1	0	6.0	3	.05	6.7	2	.04
31	1.6	1	0	---	---	---	6.8	4	.07
TOTAL	61.9	---	.23	147.82	---	5.93	206.4	---	2.94

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	6.8	3	.06	113	5	1.5	1790	347	1830	
2	6.2	2	.03	102	4	1.1	1270	120	411	
3	5.5	1	.01	93	3	.75	1090	90	265	
4	5.6	1	.02	89	2	.48	877	79	187	
5	8.8	4	.10	86	2	.46	691	72	134	
6	11	3	.09	82	2	.44	548	69	102	
7	12	7	.23	79	2	.43	465	62	78	
8	272	511	683	76	3	.62	409	55	61	
9	180	232	116	74	2	.40	358	42	41	
10	411	319	1010	74	2	.40	315	30	26	
11	4480	2920	41500	74	2	.40	283	18	14	
12	1120	325	1190	81	5	1.6	253	13	8.9	
13	499	82	110	3230	1810	23700	229	19	12	
14	2140	1230	11100	1980	649	3970	204	48	26	
15	2110	879	5750	1410	214	939	244	43	28	
16	994	218	534	2410	857	6110	239	31	20	
17	610	73	120	1400	320	1210	240	21	14	
18	419	47	53	2190	542	3790	201	14	7.6	
19	302	29	24	1570	190	805	184	10	5.0	
20	252	18	12	2080	1040	8350	164	8	3.5	
21	220	11	6.5	2280	564	3620	161	7	3.0	
22	149	8	3.2	2040	395	2250	144	7	2.7	
23	155	6	2.5	1650	225	1000	129	11	3.8	
24	140	5	1.9	1250	125	422	117	18	5.7	
25	135	5	1.8	1020	64	176	111	12	3.6	
26	120	5	1.6	1110	221	687	173	23	29	
27	110	8	2.4	839	126	285	2900	1020	9320	
28	103	8	2.2	1540	517	3310	1710	364	1790	
29	96	6	1.6	---	---	---	1100	166	493	
30	105	7	2.0	---	---	---	805	99	215	
31	136	7	2.6	---	---	---	589	62	99	
TOTAL	15313.9	---	62230.84	29022	---	60632.58	17993	---	15238.8	
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	459	40	50	149	10	4.0	28	7	.53	
2	367	25	25	134	9	3.3	27	6	.44	
3	300	18	15	118	8	2.5	30	5	.41	
4	257	16	11	107	7	2.0	28	4	.30	
5	227	13	8.0	199	21	16	25	4	.27	
6	236	10	6.4	204	18	10	21	4	.23	
7	198	7	3.7	258	25	17	19	4	.21	
8	167	7	3.2	194	13	6.8	21	4	.23	
9	147	7	2.8	160	8	3.5	19	4	.21	
10	132	8	2.9	137	7	2.6	21	4	.23	
11	130	9	3.2	117	6	1.9	17	4	.18	
12	119	9	2.9	105	6	1.7	15	4	.16	
13	109	10	2.9	98	5	1.3	14	4	.15	
14	101	10	2.7	87	4	.94	14	4	.15	
15	94	9	2.3	80	4	.86	13	4	.14	
16	97	7	1.8	76	4	.82	14	4	.15	
17	95	6	1.5	73	5	.99	16	4	.17	
18	84	4	.91	65	5	.88	14	4	.15	
19	76	4	.82	64	5	.86	13	4	.14	
20	71	3	.58	63	5	.85	12	4	.13	
21	68	3	.55	62	5	.84	12	4	.13	
22	88	10	2.8	58	6	.94	12	4	.13	
23	200	29	24	53	8	1.1	12	4	.13	
24	299	35	33	50	10	1.4	13	4	.14	
25	148	15	6.0	46	9	1.1	14	4	.15	
26	221	20	15	45	8	.97	12	4	.13	
27	307	19	16	44	8	.95	11	4	.12	
28	224	13	7.9	42	9	1.0	9.4	4	.10	
29	184	12	6.0	37	10	1.0	8.5	4	.09	
30	162	11	4.8	34	11	1.0	8.5	4	.09	
31	---	---	---	31	9	.75	---	---	---	
TOTAL	5367	---	263.66	2990	---	89.85	493.4	---	5.79	

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	10	4	.11	.28	1				
2	9.9	4	.11	.26	1				
3	6.4	5	.09	.25	1				
4	13	8	.28	.24	1				
5	9.7	6	.16	.23	1				
6	7.2	5	.10	.23	1				
7	7.0	4	.08	.22	0				
8	7.9	4	.09	.21	0				
9	8.1	4	.09	.19	0				
10	7.6	4	.08	0	0				
11	7.2	3	.06	0	0				
12	6.5	3	.05	0	0				
13	5.2	3	.04	0	0				
14	4.4	3	.04	0	0				
15	3.9	3	.03	0	0				
16	3.3	3	.03	0	0				
17	2.8	3	.02	0	0				
18	2.5	3	.02	0	0				
19	2.2	2	.01	0	0				
20	1.9	2	.01	0	0				
21	1.6	2	.01	0	0				
22	1.4	2	.01	0	0				
23	1.3	2	.01	0	0				
24	1.1	2	.01	0	0				
25	1.0	2	.01	0	0				
26	.86	2	0	0	0				
27	.75	1	0	0	0				
28	.56	1	0	0	0				
29	.43	1	0	0	0				
30	.35	1	0	0	0				
31	.30	1	0	0	0				
TOTAL	136.35	---	1.55	2.11	---	0	0	0	0
YEAR	71733.88		138472.17						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAN DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1978	61.90	0.23	0	0
NOVEMBER ...	147.82	5.93	0	6
DECEMBER ...	206.40	2.94	0	3
JANUARY 1979	15313.90	62230.84	5330	67600
FEBRUARY ...	29022.00	60632.58	11700	72400
MARCH	17993.00	15238.80	6930	22200
APRIL	5367.00	263.66	1070	1330
MAY	2990.00	89.85	238	328
JUNE	493.40	5.79	0	6
JULY	136.35	1.55	0	2
AUGUST	2.11	0.0	0	0
SEPTEMBER ..	0.0	0.0	0	0
TOTAL	71733.88	138472.17	25268	163875

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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									
09...	1445	11.0	187	327	165	57	69	80	
11...	1550	12.0	3790	1940	19900	--	37	48	
FEB									
13...	1200	10.0	4850	1900	24900	--	41	55	
MAR									
14...	1125	12.5	204	53	29	--	--	--	
APR									
03...	1445	18.0	302	18	15	--	--	--	
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									
09...	90	95	97	98	98	99	100	--	
11...	61	73	83	92	96	97	99	100	
FEB									
13...	70	88	97	100	--	--	--	--	
MAR									
14...	--	--	95	97	99	100	--	--	
APR									
03...	--	--	83	91	97	100	--	--	

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (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	
DEC								
19...	1150	9.5	11	--	0	2	10	
19...	1155	9.5	11	0	1	3	14	
19...	1200	9.5	11	1	2	4	10	
19...	1205	9.5	11	1	4	11	16	
19...	1210	9.5	11	1	4	17	24	
AUG								
07...	1020	21.0	.22	--	0	1	7	
07...	1025	21.0	.22	--	1	1	2	
07...	1030	21.0	.22	1	3	4	6	
07...	1035	21.0	.22	1	1	2	2	
07...	1040	21.0	.22	4	13	31	39	
DATE		BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
DEC								
19...	23	36	51	67	90	100	--	
19...	27	42	56	72	92	100	--	
19...	16	26	37	51	71	95	100	
19...	18	27	44	62	80	100	--	
19...	24	27	44	75	96	100	--	
AUG								
07...	12	16	22	32	45	66	100	
07...	3	6	10	17	27	49	100	
07...	9	19	29	41	53	65	100	
07...	2	3	22	64	89	100	--	
07...	40	50	74	91	99	100	--	

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SEDI- MENT, SUS- PENDE (MG/L)	TUR- BID- ITY (NTU)	DATE	TIME	SEDI- MENT, SUS- PENDE (MG/L)	TUR- BID- ITY (NTU)
NOV				MAR			
16...	--	1	1.0	02...	--	119	85
20...	--	44	30	04...	--	75	31
25...	--	7	5.0	07...	--	64	15
28...	--	2	2.0	12...	--	13	6.0
30...	--	3	3.0	14...	--	53	28
DEC				14...	1125	53	--
04...	--	1	1.0	14...	1145	--	32
05...	--	3	1.0	15...	--	51	19
07...	--	2	2.0	18...	--	14	7.0
09...	--	5	4.0	21...	--	7	3.0
13...	--	2	2.0	24...	--	19	3.0
15...	--	8	7.0	27...	--	1760	800
18...	--	11	10	31...	--	63	20
19...	--	4	3.0	APR			
22...	--	35	5.0	03...	1445	18	8.0
26...	--	5	2.0	04...	--	16	6.0
29...	--	2	1.0	07...	--	7	4.0
31...	--	4	2.0	11...	--	9	5.0
JAN				14...	--	10	6.0
04...	--	1	1.0	18...	--	4	4.0
06...	--	3	2.0	22...	--	22	17
08...	1300	2610	1900	25...	--	14	9.0
08...	1900	162	140	28...	--	13	8.0
09...	1100	238	180	MAY			
09...	1445	327	230	01...	1200	9	6.0
09...	1520	296	200	01...	1455	10	6.0
11...	1000	3740	1800	01...	1515	10	6.0
11...	1530	2100	1000	07...	--	23	16
11...	1550	1940	800	10...	--	7	4.0
11...	1600	1910	700	14...	--	4	2.0
12...	--	238	160	19...	--	5	2.0
14...	--	1960	560	24...	--	12	2.0
16...	--	167	90	30...	--	11	6.0
16...	1340	--	76	JUN			
18...	--	47	27	04...	--	4	2.0
21...	--	11	7.0	07...	--	4	3.0
24...	--	5	4.0	13...	1030	--	1.1
27...	--	9	4.0	28...	--	4	3.0
31...	--	7	8.0	29...	--	4	2.0
FEB				JUL			
02...	--	4	4.0	11...	0945	--	1.0
04...	--	1	2.0	AUG			
06...	--	2	1.0	02...	--	1	1.0
08...	--	3	3.0	07...	--	0	.60
12...	--	2	1.0				
13...	--	1900	920				
13...	1200	1900	--				
15...	--	142	80				
17...	--	202	95				
20...	1545	2990	800				
20...	1610	2870	800				
21...	--	376	190				
23...	--	215	95				
27...	--	121	70				

RUSSIAN RIVER BASIN

275

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 (0.3 km) downstream from Santa Rosa Creek, and 2 mi (3 km) northeast of Graton.

PERIOD OF RECORD.--February 1940 to September 1949 (contents only), October 1964 to current year in reports of Geological Survey. October 1949 to September 1964 available in files of district office.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Dec. 31, 1958, at site 75 ft (23 m) 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 (16.76 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 73.3 ft (22.34 m) Dec. 23, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 61.29 ft (18.681 m) Jan. 11.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				---	---							
2				---	---							
3				---	---							
4				---	---							
5				---	---							
6				---	---							
7				---	---							
8				---	---							
9				---	---							
10				---	---							
11				60.80	---							
12				57.00	---							
13				---	57.00							
14				56.90	56.20							
15				57.70	---							
16				55.40	---							
17				---	---							
18				---	55.20							
19				---	---							
20				---	56.40							
21				---	57.20							
22				---	56.60							
23				---	55.30							
24				---	---							
25				---	---							
26				---	---							
27				---	---							
28				---	---							
29				---	---							
30				---	---							
31				---	---							
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 NE¼SE¼ 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 (0.2 km) upstream from Hobson Creek, and 3.8 mi (6.1 km) east of Guerneville.

DRAINAGE AREA.--1,338 mi² (3,465 km²).

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 (6.139 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1954, nonrecording gage at bridge 5.3 mi (8.5 km) downstream at datum 8.58 ft (2.615 m) lower. Oct. 1, 1954, to Oct. 23, 1974, at site 0.7 mi (1.1 km) downstream at datum 2.75 ft (0.838 m) lower. Supplementary water-stage recorder 2.1 mi (3.4 km) downstream used during periods of low flow 1948-54.

REMARKS.--Records good. Many diversions above station for irrigation of about 29,000 acres (117 km²). Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations), since November 1958 by storage in Lake Mendocino (station 11461800) 77 mi (124 km²) upstream, and by diversion at Wohler pumping plant beginning in May 1959.

COOPERATION.--One discharge measurement was furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE.--40 years, 2,259 ft³/s (63.97 m³/s), 1,637,000 acre-ft/yr (2.02 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93,400 ft³/s (2,650 m³/s) Dec. 23, 1964, gage height, 49.6 ft (15.12 m) site and datum then in use, from floodmarks; maximum gage height, 49.7 ft (15.15 m) Dec. 23, 1955, site and datum then in use, from floodmarks; minimum daily discharge, 0.75 ft³/s (0.021 m³/s) May 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,200 ft³/s (742 m³/s) Jan. 11 (2200 hrs), gage height, 24.93 ft (7.599 m), no other peak above base of 23,000 ft³/s (651 m³/s); minimum daily, 69 ft³/s (1.95 m³/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	154	318	144	750	13400	2740	1110	453	115	134	150
2	156	155	323	140	712	8570	2430	1060	430	116	134	156
3	130	157	324	139	668	7130	2200	980	415	113	136	160
4	94	163	323	139	639	5870	1980	878	406	121	143	157
5	69	164	320	141	618	4340	1800	1050	391	122	151	154
6	107	164	310	136	606	3750	1690	1530	333	126	157	144
7	128	170	306	136	590	3340	1680	1550	277	127	156	128
8	134	171	300	602	573	3030	1550	1720	209	127	157	125
9	124	171	286	1100	558	2790	1420	1570	184	128	159	125
10	133	173	283	932	549	2530	1340	1450	182	129	157	124
11	136	174	282	15000	543	2320	1250	1380	177	129	155	253
12	139	183	279	16800	543	2170	1190	1250	170	133	155	209
13	143	196	266	6040	7130	1980	1120	902	165	131	158	140
14	143	197	257	6570	17200	1790	1050	722	157	127	157	128
15	142	224	245	15900	7920	1740	998	702	145	139	157	129
16	145	251	237	9360	11900	1970	960	657	138	150	159	129
17	144	264	240	5310	8640	2450	956	662	160	154	159	128
18	150	275	266	3430	10800	2080	889	839	175	148	158	129
19	154	300	266	2460	11600	1840	796	853	172	136	160	132
20	157	329	220	2010	10400	1650	796	681	168	127	164	134
21	161	352	174	1690	18200	1500	766	587	159	128	165	137
22	163	348	153	1480	15200	1380	763	542	148	139	159	143
23	160	342	139	1270	13500	1270	908	522	133	150	153	147
24	155	341	133	1100	9700	1180	1800	473	128	148	155	148
25	149	339	135	988	7350	1110	1410	474	125	126	152	155
26	139	338	136	900	7680	1060	1260	533	122	119	155	160
27	145	311	125	828	6190	1670	1670	524	119	123	156	159
28	147	326	127	781	6020	11900	1490	513	122	131	152	154
29	153	318	136	737	---	5920	1290	502	116	140	155	146
30	155	315	139	721	---	3970	1180	489	118	138	155	143
31	152	---	139	800	---	3200	---	469	---	133	154	---
TOTAL	4338	7365	7187	97784	176779	111430	41372	27174	6197	4073	4777	4426
MEAN	140	246	232	3154	6314	3595	1379	877	207	131	154	148
MAX	163	352	324	16800	18200	13400	2740	1720	453	154	165	253
MIN	69	154	125	136	543	1060	763	469	116	113	134	124
AC-FT	8600	14610	14260	194000	350600	221000	82060	53900	12290	8080	9480	8780
CAL YR 1978 TOTAL		1149340		MEAN 3149	MAX 59500	MIN 69	AC-FT 2280000					
WTR YR 1979 TOTAL		492902		MEAN 1350	MAX 18200	MIN 69	AC-FT 977700					

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

CHEMICAL ANALYSES: Water years 1951 to current year. Published as "at Guerneville" in 1961-65.

BIOLOGICAL DATA: Water years 1975 to current year.

SPECIFIC CONDUCTANCE: Water years 1974 to current year.

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 current year.

WATER TEMPERATURES: January 1964 to current year.

SEDIMENT RECORDS: April to September 1967, October 1969 to current year.

INSTRUMENTATION.--Specific conductance recorder since October 1973, at site 0.7 mi (1.1 km) downstream.

Temperature recorder since January 1964.

REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading. Differences between recorder values before adjustment and field measurement values exceeded ± 10 percent micromhos for specific conductance and $\pm 1.0^\circ\text{C}$ for water temperature at times during the year.

COOPERATION.--The letter "A" following a date indicates chemical-quality data furnished by California Department of Water Resources and "B" following a date indicates chemical-quality samples were collected by California Regional Water Quality Control Board, North Coast Region. Specific conductance data also furnished by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 605 micromhos Feb. 19, 20, 1977; minimum recorded, 57 micromhos Nov. 4, 1973.

WATER TEMPERATURES: Maximum recorded, 29.5°C June 26, 1973; minimum recorded, 4.5°C Dec. 15, 1967, Jan. 12, 1968.

SEDIMENT CONCENTRATIONS (water years 1970-79): Maximum daily mean, 2,350 mg/L Jan. 16, 1974; minimum daily mean, 2 mg/L Dec. 12, 27, 1978.

SEDIMENT DISCHARGE (water years 1970-79): Maximum daily, 316,000 tons (287,000 metric tons) Jan. 16, 1974; minimum daily, 0.03 ton (0.03 metric ton) May 6, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 335 micromhos Aug. 9; minimum recorded, 110 micromhos Mar. 1.

WATER TEMPERATURES: Maximum recorded, 29.0°C July 13, 23, 24; minimum recorded, 5.5°C Jan. 1-3.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,280 mg/L Jan. 11; minimum daily mean, 2 mg/L Dec. 12, 27.

SEDIMENT DISCHARGE: Maximum daily, 58,200 tons (52,800 metric tons) Jan. 11; minimum daily, 0.68 ton (0.62 metric ton) Dec. 27.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, SATURATION (%)	COLIFORMS, (PER 100 ML)	STREPTOCOCCI, (COLS./100 ML)	FECAL, (PER 100 ML)	HARDNESS (MG/L AS CaCO3)
OCT												
11...	1400	136	251	8.2	19.5	--	9.9	108	--	--	--	--
12...A	0900	158	308	7.5	18.0	--	8.4	88	--	--	--	--
19...	1130	154	274	7.8	18.0	1.1	9.2	--	K5	K3	--	130
NOV												
08...A	1400	177	276	7.4	15.0	--	10.3	102	--	--	--	--
16...	1415	215	307	7.5	10.5	.80	11.0	--	66	52	--	130
DEC												
12...A	0845	280	272	7.6	8.0	--	11.1	94	--	--	--	--
12...	1205	274	257	7.7	9.5	.60	12.3	--	18	20	--	120
JAN												
23...	1230	1220	287	7.0	9.0	15	10.3	--	600	700	--	--
FEB												
21...	1315	19100	126	7.8	9.5	220	10.8	--	2300	3200	--	49
MAR												
08...A	1745	2960	235	7.3	16.0	--	9.2	92	--	--	--	--
19...	1430	1770	246	7.5	13.5	16	9.7	--	>200	43	--	110
APR												
16...	1100	899	280	8.1	16.5	2.3	9.2	--	K18	K13	--	120
17...A	1000	982	291	7.5	14.0	--	9.4	92	--	--	--	--
MAY												
10...A	1520	1450	244	7.7	18.0	--	9.6	102	--	--	--	105
15...	1300	695	281	8.2	20.5	5.1	8.8	--	43	15	--	120
JUN												
11...	1120	170	287	7.6	23.5	5.0	8.3	--	18	K6	--	140
JUL												
09...	1215	124	277	7.7	24.0	3.5	8.9	--	26	14	--	120
12...A	0750	130	275	7.7	24.0	--	7.5	88	--	--	--	--
AUG												
06...	1315	160	238	8.2	25.0	2.9	8.2	--	47	9	--	110
17...A	1100	159	249	7.9	22.0	--	8.2	94	--	--	--	--
SEP												
06...A	1230	145	248	8.1	26.0	--	9.1	110	--	--	--	--
17...	1145	126	250	8.2	23.5	3.2	8.5	--	33	K16	--	120

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

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY AS (MG/L CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	
OCT											
11...	--	--	--	--	--	--	--	--	--	--	
12...	--	--	--	--	--	--	--	--	--	--	
19...	18	28	14	11	16	.4	1.4	110	16	13	.1
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
16...	15	27	14	10	15	.4	1.3	110	17	10	.1
DEC											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	6	25	13	9.6	15	.4	1.1	110	16	8.0	.1
JAN											
23...	--	--	--	--	--	--	--	97	18	11	.1
FEB											
21...	8	11	5.3	5.1	18	.3	1.1	41	12	4.3	.1
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
19...	11	23	13	11	17	.5	2.1	100	17	9.5	.1
APR											
16...	4	25	15	12	17	.5	1.4	120	20	7.9	.2
17...	--	--	--	--	--	--	--	--	--	--	--
MAY											
10...	6	22	12	9.0	16	.4	1.2	99	14	5.0	--
15...	8	24	14	12	18	.5	1.5	110	17	7.4	.1
JUN											
11...	8	29	16	10	13	.4	5.1	130	16	7.0	.2
JUL											
09...	4	25	15	10	15	.4	1.5	120	17	6.7	.1
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
06...	4	24	13	8.3	14	.3	1.2	110	15	5.5	.1
17...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--
17...	6	25	13	9.9	15	.4	1.3	110	19	5.8	.2

DATE	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)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (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)
OCT										
11...	--	--	--	--	--	--	--	--	--	--
12...A	--	--	--	--	--	.03	.01	--	--	.02
19...	12	168	162	.23	69.9	--	--	.03	--	.00
NOV										
08...A	--	--	--	--	--	.02	.00	--	--	.01
16...	11	151	157	.21	87.7	--	--	.05	--	.02
DEC										
12...A	--	--	--	--	--	.08	.01	--	--	.01
12...	9.0	152	148	.21	112	--	--	.08	--	.01
JAN										
23...	--	157	--	.21	538	--	--	.88	--	.22
FEB										
21...	13	73	77	.10	3760	--	--	.34	--	.08
MAR										
08...	--	--	--	--	--	--	--	--	--	--
19...	15	149	151	.20	712	--	--	.67	--	.09
APR										
16...	14	176	168	.24	427	--	--	.35	--	.03
17...	--	--	--	--	--	--	--	--	--	--
MAY										
10...A	--	149	124	.20	583	.36	--	--	--	--
15...	19	168	161	.23	315	--	--	.41	--	.01
JUN										
11...	11	173	172	.24	79.4	--	--	.26	--	.01
JUL										
09...	12	169	159	.23	56.6	--	--	.01	--	.04
12...	--	--	--	--	--	--	--	--	--	--
AUG										
06...	9.8	145	143	.20	62.6	--	--	.01	--	.00
17...	--	--	--	--	--	--	--	--	--	--
SEP										
06...	--	--	--	--	--	--	--	--	--	--
17...	14	143	154	.19	48.6	--	--	.18	.00	.03

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITRO- GEN, ORGANIC TOTAL (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, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT										
11...	--	--	--	--	--	--	--	--	--	--
12...A	.30	.32	--	--	.05	--	.02	--	--	--
19...	.13	.13	.15	.16	.07	.06	--	2.7	--	--
NOV										
08...A	.20	.21	--	--	.04	--	.03	--	--	--
16...	.30	.32	--	.37	.05	.05	--	--	2.6	.3
DEC										
12...A	.20	.21	--	--	.08	--	.05	--	--	--
12...	2.2	2.2	.37	2.3	.09	.07	--	1.9	--	--
JAN										
23...	.68	.90	.66	1.8	.31	.27	--	3.5	--	--
FEB										
21...	.75	.83	.30	1.2	.39	.10	--	--	6.1	--
MAR										
08...	--	--	--	--	--	--	--	--	--	--
19...	.37	.46	.43	1.1	.18	.03	--	3.9	--	--
APR										
16...	.37	.40	.25	.75	.10	.10	--	2.6	--	--
17...	--	--	--	--	--	--	--	--	--	--
MAY										
10...	--	--	--	--	--	--	--	--	--	--
15...	.50	.51	.21	.92	.16	.01	--	--	1.7	.9
JUN										
11...	.41	.42	.21	.68	.06	.03	--	2.3	--	--
JUL										
09...	.00	.02	.06	.03	.02	.02	--	2.3	--	--
12...	--	--	--	--	--	--	--	--	--	--
AUG										
06...	.79	.79	.11	.80	.06	.02	--	--	1.5	.4
17...	--	--	--	--	--	--	--	--	--	--
SEP										
06...	--	--	--	--	--	--	--	--	--	--
17...	.31	.34	.35	.52	.05	.02	--	1.5	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
NOV										
16...	1415	1	1	0	0	--	0	0	0	0
FEB										
21...	1315	1	1	100	0	--	1	0	30	0
MAY										
10...A	1520	--	--	--	--	300	--	--	--	--
15...	1300	1	1	100	100	--	1	0	0	0
AUG										
06...	1315	2	2	100	90	--	0	<1	0	0

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
NOV									
16...	0	0	3	1	210	0	0	0	20
FEB									
21...	9	0	28	4	17000	60	27	0	380
MAY									
10...	--	--	--	--	--	--	--	--	--
15...	3	0	3	0	870	10	6	0	40
AUG									
06...	0	<3	2	2	310	10	0	0	40

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV									
16...	10	.0	.0	0	1	0	0	20	0
FEB									
21...	0	.1	.0	0	0	0	0	60	10
MAY									
10...	--	--	--	--	--	--	--	--	--
15...	20	.2	.0	0	0	5	0	20	20
AUG									
06...	5	.0	.0	0	0	0	0	0	<3

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	OCT 19,78 1130	MAR 19,79 1430	MAY 15,79 1300	JUN 11,79 1120				
TOTAL CELLS/ML	550	5400	42000	3000				
DIVERSITY: DIVISION	1.6	1.5	0.2	1.5				
..CLASS	1.6	1.5	0.2	1.5				
...ORDER	2.7	1.8	1.1	1.9				
...FAMILY	3.2	2.3	1.1	2.1				
...GENUS	4.0	2.6	1.1	2.6				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHARACIACEAE								
...SCHROEDERIA	--	-	--	-	--	-	22	1
...CHLOROCOCCACEAE								
...CHLOROCOCCUM	--	-	--	-	--	-	--	-
...COELASTRACEAE								
...COELASTRUM	--	-	300	6	--	-	--	-
...HYDRODICTYACEAE								
...PEDIASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
...GOLENKINIA	*	0	--	-	--	-	--	-
...MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
...ANKISTRODESMUS	11	2	75	1	--	-	110	4
...CHLORELLA	--	-	--	-	--	-	--	-
...CLOSTERIOPSIS	5	1	--	-	--	-	--	-
...KIRCHNERIELLA	--	-	--	-	13000#	32	--	-
...OOCYSTIS	*	0	--	-	--	-	--	-
...SELENASTRUM	--	-	--	-	--	-	--	-
...TETRAEDRON	11	2	--	-	--	-	--	-
...SCENEDESMACEAE								
...ACTINASTRUM	21	4	--	-	--	-	--	-
...CRUCIGENIA	--	-	150	3	--	-	--	-
...SCENEDESMUS	32	6	75	1	--	-	86	3
...TETRASTRUM	11	2	--	-	--	-	--	-
..TETRASPORALES								
...COCCOMYXACEAE								
...NANNOCHLORIS	--	-	--	-	27000#	66	--	-
...PALMELLACEAE								
...SPHAEROCYSTIS	43	8	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	46	8	--	-	--	-	220	7
...VOLVOCAEAE								
...GONIUM	--	-	150	3	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
...STAUSTRUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCAEAE								
...CYCLOTELLA	70	13	420	8	--	-	260	9
...MELOSIRA	5	1	150	3	710	2	86	3
...STEPHANODISCUS	13	2	--	-	--	-	1500#	49
...PENNALES								
...CYMBELLACEAE								
...CYMBELLA	*	0	38	1	--	-	--	-
...EPITHEMIA	5	1	--	-	--	-	--	-
...DIATOMACEAE								
...DIATOMA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
...FRAGILARIA	30	5	75	1	--	-	--	-
...SYNEDRA	59	11	190	3	--	-	22	1
...GOMPHONEMATACEAE								
...GOMPHONEHA	*	0	38	1	--	-	--	-
...NAVICULACEAE								
...NAVICULA	5	1	490	9	360	1	22	1
...NITZSCHIAEAE								
...NITZSCHIA	21	4	110	2	--	-	130	4
...SURIRELLACEAE								
...SURIRELLA	--	-	38	1	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
...CHROOMONAS	--	-	--	-	--	-	22	1
...CRYPTOMONADACEAE								
...CRYPTOMONAS	--	-	--	-	--	-	240	8

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

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

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	OCT 19,78 1130		MAR 19,79 1430		MAY 15,79 1300		JUN 11,79 1120		CONTINUED
	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	
ORGANISM									
CYANOPHYTA (BLUE-GREEN ALGAE)									
..CYANOPHYCEAE									
...CHROOCOCCALES									
...CHROOCOCCACEAE									
...AGHENELLUM									
	43	8	--	-	--	-	--	-	
...ANACYSTIS									
	19	3	75	1	--	-	300	10	
...COCCOCHLORIS									
	8	1	--	-	--	-	--	-	
...HORMOGONALES									
...OSCILLATORIAEAE									
...OSCILLATORIA									
	80	15	--	-	--	-	--	-	
...SCHIZOTHRIX									
	--	-	--	-	--	-	--	-	
EUGLENOPHYTA (EUGLENOIDS)									
..EUGLENOPHYCEAE									
...EUGLENALES									
...EUGLENACEAE									
...EUGLENA									
	--	-	110	2	--	-	22	1	
...TRACHELOMONAS									
	--	-	2900#	54	--	-	--	-	
PYRRHOPHYTA (FIRE ALGAE)									
..DINOPHYCEAE									
...GYMNODINIALES									
...GYMNODINIAEAE									
...GYMNODINIUM									
	--	-	--	-	--	-	--	-	

DATE TIME	JUL 9,79 1215	AUG 6,79 1315	SEP 12,79 1145
TOTAL CELLS/ML	5500	2500	1800
DIVERSITY: DIVISION	1.7	1.3	1.6
..CLASS	1.7	1.3	1.6
...ORDER	2.2	1.5	0.0
....FAMILY	2.9	1.5	0.0
.....GENUS	3.4	1.8	0.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...CHARACIACEAE						
...SCHROEDERIA						
	--	-	--	-	--	-
...CHLOROCOCCACEAE						
...CHLOROCOCCUM						
	--	-	--	-	54	3
...COELASTRACEAE						
...COELASTRUM						
	--	-	--	-	54	3
...HYDRODICTYACEAE						
...PEDIASTRUM						
	--	-	--	-	81	5
...MICRACTINIAEAE						
...GOLINKINIA						
	--	-	--	-	--	-
...MICRACTINIUM						
	360	6	--	-	--	-
...OOCYSTACEAE						
...ANKISTRODESMUS						
	360	6	170	7	54	3
...CHLORELLA						
	--	-	--	-	81	5
...CLOSTERIOPSIS						
	--	-	--	-	--	-
...KIRCHNERIELLA						
	--	-	52	2	14	1
...OOCYSTIS						
	--	-	--	-	--	-
...SELENASTRUM						
	--	-	100	4	--	-
...TETRAEDRON						
	30	1	--	-	--	-
...SCENEDESMACEAE						
...ACTINASTRUM						
	--	-	--	-	--	-
...CRUCIGENIA						
	480	9	--	-	--	-
...SCENEDESMUS						
	360	6	--	-	150	8
...TETRASTRUM						
	--	-	--	-	--	-
...TETRASPORALES						
...COCCOMYXACEAE						
...NANNOCHLORIS						
	--	-	--	-	--	-
...PALMELLACEAE						
...SPHAEROCYSTIS						
	--	-	--	-	--	-
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
...CHLAMYDOMONAS						
	--	-	52	2	14	1
...VOLVOCAEAE						
...GONIUM						
	--	-	--	-	--	-
...ZYGNEATALES						
...DESMIDIACEAE						
	--	-	--	-	*	0
...STAUSTRUM						
	--	-	--	-	*	0
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	JUL 9,79 1215		AUG 6,79 1315		SEP 12,79 1145		CONTINUED
	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	
ORGANISM							
..CENTRALES							
...COSCINODISCACEAE							
...CYCLOTELLA	540	10	90	4	88	5	
...HELOSIRA	1200#	22	26	1	20	1	
...STEPHANODISCUS	--	-	--	-	--	-	
..PENNALES							
...CYMBELLACEAE							
...CYMBELLA	--	-	--	-	--	-	
...EPISTEMIA	--	-	--	-	--	-	
...DIATOMACEAE							
...DIATOMA	--	-	--	-		* 0	
...FRAGILARIACEAE							
...FRAGILARIA	150	3	13	1	--	-	
...SYNEDRA	330	6	120	5	140	8	
...GOMPHONEMACEAE							
...GOMPHONEMA	--	-	--	-	--	-	
...NAVICULACEAE							
...NAVICULA	30	1	--	-	150	8	
...NITZSCHIACEAE							
...NITZSCHIA	510	9	26	1	74	4	
...SURIRELLACEAE							
...SURIRELLA	--	-	--	-		* 0	
CRYPTOPHYTA (CRYPTOMONADS)							
..CRYPTOPHYCEAE	--	-	--	-	14	1	
...CRYPTOMONADALES							
...CRYPTOCHRYSIDACEAE							
...CHROOMONAS	89	2	26	1	--	-	
...CRYPTOMONADACEAE							
...CRYPTOMONAS	510	9	65	3	--	-	
CYANOPHYTA (BLUE-GREEN ALGAE)							
..CYANOPHYCEAE							
...CHROOCOCCALES							
...CHROOCOCCACEAE							
...AGMENELLUM	--	-	--	-	--	-	
...ANACYSTIS	570	10	1800#	71	--	-	
...COCCOCHLORIS	--	-	--	-	--	-	
...HORMOGONALES							
...OSCILLATORIACEAE							
...OSCILLATORIA	--	-	--	-	620#	35	
...SCHIZOTHRIX	--	-	--	-	150	8	
EUGLENOPHYTA (EUGLENOIDS)							
..EUGLENOPHYCEAE							
...EUGLENALES							
...EUGLENACEAE							
...EUGLENA	--	-	--	-	--	-	
...TRACHELOMONAS	--	-	--	-	--	-	
PYRRHOPHYTA (FIRE ALGAE)							
..DINOPHYCEAE							
...GYMNODINIALES							
...GYMNODINIAEAE							
...GYMNODINIUM	30	1	--	-	--	-	

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

DATE	TIME	LFNGTH OF EXPO- SURE (DAYS)	PERI- PHYTON	PERI- PHYTON	CHLOR-A PERI- PHYTON	CHLOR-B PERI- PHYTON	BIOMASS CHLORO- PHYLL RATIO
			BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS ASH WEIGHT G/SQ M	CHROMO- GRAPHIC FLUOROM (MG/M2)	CHROMO- GRAPHIC FLUOROM (MG/M2)	PERI- PHYTON (UNITS)
OCT 11...	1400	30	33.0	24.1	37.4	3.14	238
NOV 16...	1415	28	13.7	11.3	27.5	5.38	--
AUG 06...	1315	28	47.6	41.7	16.3	1.32	362
SEP 17...	1145	42	3.46	2.60	29.2	8.93	29.5

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	285	280	280	285	280	285	265	260	260	310	310	310
2	290	280	285	280	280	280	265	265	265	310	310	310
3	295	290	290	280	280	280	265	265	265	320	310	310
4	300	290	295	280	280	280	265	265	265	310	310	310
5	310	300	305	280	280	280	265	265	265	320	310	310
6	315	295	305	280	280	280	265	265	265	320	310	320
7	295	290	290	280	280	280	265	265	265	310	310	310
8	290	285	290	280	280	280	265	265	265	320	150	280
9	290	285	290	280	280	280	265	265	265	290	150	240
10	290	285	290	280	280	280	265	265	265	310	270	290
11	285	285	285	280	280	280	265	265	265	---	---	---
12	290	285	285	280	280	280	265	265	265	---	---	---
13	290	285	290	305	280	290	265	265	265	---	---	---
14	290	285	285	305	290	295	270	265	265	---	---	---
15	285	285	285	290	275	280	270	270	270	---	---	---
16	285	285	285	275	265	270	270	270	270	---	---	---
17	285	285	285	265	260	260	275	270	270	---	---	---
18	285	285	285	260	260	260	295	275	285	---	---	---
19	290	285	285	260	260	260	300	270	285	---	---	---
20	290	285	290	290	260	275	275	270	270	---	---	---
21	290	285	285	290	250	270	285	275	280	---	---	---
22	285	285	285	260	250	255	295	285	290	---	---	---
23	290	285	285	270	260	265	310	290	300	---	---	---
24	290	285	285	265	260	260	320	310	310	275	275	275
25	285	285	285	260	260	260	310	310	310	280	275	280
26	290	285	290	260	260	260	320	310	310	280	280	280
27	290	290	290	265	260	260	320	320	320	290	280	285
28	290	285	290	260	260	260	320	320	320	300	285	295
29	290	285	290	260	260	260	320	310	320	300	285	295
30	285	285	285	260	260	260	310	310	310	---	---	---
31	285	285	285	---	---	---	310	310	310	---	---	---
MONTH	315	280	288	305	250	272	320	260	282	320	150	294

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	190	110	130	240	230	235	305	290	295
2	---	---	---	170	145	160	250	240	245	305	300	305
3	---	---	---	195	170	180	255	250	250	300	300	300
4	---	---	---	180	170	175	260	255	255	300	285	290
5	---	---	---	---	---	---	260	260	260	290	285	285
6	---	---	---	---	---	---	260	260	260	285	280	285
7	---	---	---	---	---	---	265	260	260	280	275	275
8	---	---	---	---	---	---	270	265	265	275	275	275
9	---	---	---	235	230	235	280	270	275	270	205	250
10	---	---	---	245	235	240	290	270	280	230	205	220
11	---	---	---	250	245	250	---	---	---	220	220	220
12	---	---	---	250	250	250	---	---	---	220	210	215
13	---	---	---	255	250	255	---	---	---	240	210	220
14	---	---	---	265	255	260	---	---	---	260	240	250
15	---	---	---	265	265	265	---	---	---	250	250	250
16	---	---	---	265	220	255	---	---	---	260	250	260
17	---	---	---	250	215	225	---	---	---	260	260	260
18	---	---	---	265	250	260	310	280	300	260	230	250
19	---	---	---	265	265	265	285	270	275	240	240	240
20	---	---	---	270	265	265	305	270	290	300	240	260
21	---	---	---	270	270	270	305	260	270	310	270	290
22	---	---	---	280	270	275	310	280	290	300	270	285
23	155	135	145	285	280	280	310	250	270	280	280	280
24	175	155	165	290	285	285	250	225	235	295	280	285
25	220	175	190	290	280	290	270	225	235	295	270	285
26	195	170	185	290	270	285	280	220	245	270	260	265
27	190	185	190	270	125	160	260	210	230	260	260	260
28	195	185	190	---	---	---	275	260	270	260	260	260
29	---	---	---	---	---	---	280	270	275	260	255	260
30	---	---	---	210	195	200	295	280	290	270	255	260
31	---	---	---	230	210	220	---	---	---	270	270	270
MONTH	220	135	178	290	110	237	310	210	263	310	205	265

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHUS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	270	270	270	315	295	305	220	215	220	---	---	---
2	270	270	270	310	275	295	220	215	215	---	---	---
3	270	270	270	305	290	300	215	215	215	---	---	---
4	270	270	270	320	290	310	215	210	215	---	---	---
5	270	270	270	310	280	295	230	210	220	---	---	---
6	270	270	270	295	275	285	290	230	260	---	---	---
7	280	270	275	300	280	290	320	290	305	250	250	250
8	290	280	280	280	245	265	330	320	325	250	250	250
9	290	285	290	270	255	265	335	260	295	250	250	250
10	295	290	290	260	255	260	265	230	245	255	250	255
11	295	290	290	265	255	260	245	220	230	255	245	250
12	290	290	290	265	235	255	265	235	250	255	245	250
13	290	290	290	270	260	265	255	215	230	265	250	255
14	290	290	290	260	255	260	215	210	215	265	255	260
15	290	290	290	260	255	255	220	210	215	260	255	260
16	295	290	295	255	250	255	260	215	240	255	255	255
17	300	295	295	250	250	250	250	245	245	255	255	255
18	295	295	295	250	245	245	245	245	245	255	255	255
19	295	290	295	245	245	245	245	240	245	255	250	255
20	290	285	290	260	245	250	245	240	245	250	250	250
21	290	285	290	265	260	260	245	240	240	250	245	250
22	290	285	290	265	230	250	240	240	240	245	245	245
23	290	290	290	230	225	230	240	235	235	250	245	245
24	290	290	290	225	225	225	235	235	235	250	245	250
25	290	290	290	225	220	225	240	235	240	250	245	245
26	290	290	290	225	220	225	---	---	---	245	245	245
27	295	290	290	220	215	220	---	---	---	250	245	245
28	290	285	285	220	220	220	---	---	---	250	250	250
29	295	290	295	220	220	220	---	---	---	250	250	250
30	310	295	300	220	220	220	---	---	---	250	250	250
31	---	---	---	220	215	220	---	---	---	---	---	---
MONTH	310	270	286	320	215	256	335	210	243	265	245	251
YEAR	335	110	265									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	14.5	13.0	14.0	13.0	7.0	5.5	---	---	11.0	9.5
2	---	---	15.0	13.0	13.0	11.0	6.5	9.5	---	---	10.5	9.5
3	---	---	15.0	13.0	11.5	10.0	7.0	9.5	---	---	11.5	10.0
4	---	---	15.5	13.5	11.0	9.5	8.0	6.5	---	---	12.5	11.0
5	---	---	16.0	14.0	11.0	9.5	9.5	8.0	---	---	14.5	12.0
6	---	---	17.0	14.5	10.0	8.0	10.5	9.0	---	---	15.5	13.0
7	---	---	17.0	15.0	8.5	7.0	10.0	9.5	---	---	16.0	14.0
8	---	---	16.5	14.5	8.0	6.5	10.5	9.5	---	---	16.0	14.5
9	---	---	16.5	15.0	8.0	6.0	11.0	10.0	---	---	16.0	14.0
10	---	---	15.5	14.0	8.5	7.0	11.0	10.5	---	---	14.5	14.0
11	---	---	14.0	12.5	9.0	7.5	11.5	10.5	---	---	14.5	13.5
12	---	---	12.5	11.0	10.0	8.5	11.5	11.0	---	---	15.5	12.5
13	---	---	11.5	10.5	11.0	9.5	11.0	10.0	---	---	15.5	13.5
14	---	---	12.5	10.5	11.0	9.0	10.0	9.5	---	---	13.5	13.5
15	---	---	12.5	10.5	10.5	9.0	9.5	9.0	---	---	13.5	13.5
16	---	---	12.5	11.0	10.0	8.5	9.5	9.0	---	---	13.5	12.5
17	---	---	13.5	11.5	9.5	8.5	9.5	8.5	---	---	14.0	11.5
18	---	---	13.5	12.5	9.5	9.0	10.0	8.5	---	---	14.0	13.5
19	---	---	13.5	13.0	10.0	8.0	9.5	9.0	---	---	15.0	13.0
20	---	---	14.0	13.0	9.0	7.5	9.5	9.0	---	---	15.0	14.0
21	---	---	14.5	13.5	8.0	7.0	10.5	9.5	---	---	15.0	13.0
22	---	---	14.0	13.0	7.5	7.0	10.0	9.5	10.5	10.0	14.0	13.0
23	---	---	13.5	12.5	7.5	7.0	9.5	9.0	10.5	10.0	15.5	12.5
24	---	---	13.5	12.0	7.5	7.0	10.0	9.0	11.5	10.0	16.0	13.5
25	18.5	17.0	13.0	11.5	7.5	6.5	10.0	9.0	11.5	10.5	16.5	14.0
26	18.0	17.0	12.0	11.0	7.5	7.0	9.5	8.5	12.0	11.0	16.0	14.0
27	18.0	16.5	12.0	11.0	8.0	7.5	9.5	8.5	12.0	10.5	14.0	12.0
28	17.5	16.0	12.5	10.5	8.5	7.5	9.0	8.0	11.5	10.5	13.5	11.5
29	17.0	15.5	13.0	11.0	8.5	7.5	9.0	8.0	---	---	13.5	11.5
30	16.0	15.0	13.5	12.0	8.5	7.0	9.0	8.5	---	---	14.0	11.5
31	15.0	13.5	---	---	8.0	6.5	---	---	---	---	15.0	12.5
MONTH	18.5	13.5	17.0	10.5	14.0	6.0	11.5	5.5	12.0	10.0	16.5	9.5

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.5	13.0	18.5	16.5	23.0	21.5	26.5	22.0	28.5	23.5	23.5	21.0
2	15.5	13.5	19.5	16.0	23.5	22.5	25.5	22.0	28.5	23.5	24.5	21.5
3	16.0	13.5	19.0	17.5	23.0	22.0	25.0	21.0	26.5	23.5	25.5	21.5
4	17.0	14.5	18.5	17.0	23.0	21.5	25.0	21.0	27.0	23.0	25.5	21.5
5	16.5	15.0	18.5	17.5	23.5	21.5	25.5	21.5	27.0	22.0	25.5	21.5
6	16.5	14.5	17.5	15.0	25.5	22.5	26.0	21.5	26.5	22.0	26.5	21.5
7	17.5	14.5	16.0	14.0	26.0	21.5	26.0	21.5	26.0	21.5	26.0	22.0
8	17.5	15.5	16.0	14.0	26.5	20.5	26.5	22.0	26.0	21.5	25.5	22.5
9	17.0	15.0	17.5	14.5	26.0	20.5	25.5	22.5	26.0	21.5	25.5	22.0
10	15.5	13.5	19.0	16.0	26.0	21.0	26.5	23.5	26.5	21.5	25.5	21.5
11	17.5	14.5	19.5	17.5	26.5	21.0	27.5	22.5	26.5	22.0	25.5	21.5
12	17.5	14.5	21.0	18.5	26.0	21.0	28.5	23.5	26.5	22.0	25.5	22.5
13	18.5	15.0	22.5	19.5	25.5	21.0	29.0	24.0	26.0	22.0	27.0	22.5
14	18.5	15.5	22.0	20.0	25.0	20.5	28.5	24.5	26.0	21.5	25.5	22.0
15	19.0	16.0	21.5	20.0	25.0	20.0	28.0	24.0	25.5	21.5	25.5	21.5
16	18.0	16.5	20.5	19.0	24.0	20.0	28.0	23.0	26.0	21.5	25.0	21.5
17	16.5	15.0	22.0	20.5	23.5	20.0	28.0	23.5	26.5	21.5	24.0	21.5
18	16.0	13.5	22.5	21.0	24.0	19.5	28.0	23.0	26.5	21.5	23.5	21.0
19	16.0	13.5	22.0	20.0	24.5	19.5	28.0	23.0	25.5	21.5	23.0	20.0
20	16.5	14.5	20.5	18.5	25.5	20.0	27.5	23.0	25.0	21.5	23.0	20.0
21	17.0	15.5	18.5	17.5	25.5	20.5	27.0	23.5	25.0	21.5	23.0	20.0
22	17.5	16.0	19.5	17.5	25.5	20.5	28.5	23.5	25.0	21.0	22.0	20.0
23	17.5	16.0	21.5	19.0	26.0	21.5	29.0	23.5	25.0	21.0	22.5	20.0
24	16.5	14.5	22.5	20.5	25.0	21.5	29.0	24.0	25.5	21.0	21.5	19.5
25	17.5	15.5	23.5	20.5	24.0	21.5	28.5	24.0	26.0	21.0	20.5	20.0
26	17.5	15.5	23.5	21.5	24.5	21.0	26.5	23.5	26.5	21.5	21.5	19.0
27	17.5	15.0	23.0	21.5	25.0	20.5	26.5	23.0	26.0	22.0	21.5	18.5
28	18.5	16.0	22.0	20.0	25.0	20.5	27.0	22.5	25.5	22.0	22.0	19.0
29	18.0	16.5	20.5	18.5	25.5	21.0	28.0	22.5	25.0	21.5	22.0	19.5
30	18.5	16.0	21.5	19.5	26.0	21.0	28.5	23.5	24.0	21.0	22.5	19.5
31	---	---	22.5	21.0	---	---	28.5	23.5	24.5	20.5	---	---
MONTH	19.0	13.0	23.5	14.0	26.5	19.5	29.0	21.0	28.5	20.5	27.0	18.5
YEAR	29.0	5.5										

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	131	23	8.1	154	6	2.5	318	5	4.3
2	156	19	8.0	155	6	2.5	323	5	4.4
3	130	17	6.0	157	6	2.5	324	4	3.5
4	94	14	3.6	163	6	2.6	323	4	3.5
5	69	13	2.4	164	6	2.7	320	4	3.5
6	107	11	3.2	164	5	2.2	310	4	3.3
7	128	9	3.1	170	5	2.3	306	4	3.3
8	134	7	2.5	171	4	1.8	300	4	3.2
9	124	6	2.0	171	4	1.8	286	4	3.1
10	133	7	2.5	173	3	1.4	283	4	3.1
11	136	7	2.6	174	3	1.4	282	3	2.3
12	139	7	2.6	183	5	2.5	279	2	1.5
13	143	7	2.7	196	4	2.1	266	5	3.6
14	143	7	2.7	197	4	2.1	257	8	5.6
15	142	6	2.3	224	5	3.0	245	8	5.3
16	145	6	2.3	251	6	4.1	237	7	4.5
17	144	6	2.3	264	7	5.0	240	7	4.5
18	150	6	2.4	275	8	5.9	266	6	4.3
19	154	6	2.5	300	9	7.3	266	7	5.0
20	157	6	2.5	329	10	8.9	220	7	4.2
21	161	6	2.6	352	15	14	174	7	3.3
22	163	6	2.6	348	16	15	153	6	2.5
23	160	6	2.6	342	10	9.2	139	5	1.9
24	155	6	2.5	341	8	7.4	133	4	1.4
25	149	6	2.4	339	7	6.4	135	3	1.1
26	139	6	2.3	338	6	5.5	136	3	1.1
27	145	6	2.3	311	6	5.0	125	2	.68
28	147	6	2.4	326	5	4.4	127	3	1.0
29	153	6	2.5	318	5	4.3	136	3	1.1
30	155	7	2.9	315	5	4.3	139	4	1.5
31	152	6	2.5	---	---	---	139	4	1.5
TOTAL	4338	---	93.9	7365	---	140.1	7187	---	93.08

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	144	5	1.9	750	22	45	13400	478	17400
2	140	5	1.9	712	21	40	8570	302	6990
3	139	5	1.9	668	20	36	7130	187	3600
4	139	5	1.9	639	19	33	5870	120	1900
5	141	5	1.9	618	19	32	4340	112	1310
6	136	4	1.5	606	18	29	3750	98	992
7	136	4	1.5	590	17	27	3340	88	794
8	602	76	253	573	17	26	3030	72	589
9	1100	117	352	558	16	24	2790	59	444
10	932	84	225	549	15	22	2530	51	348
11	15000	1280	58200	543	13	19	2320	44	276
12	16800	668	33900	543	12	18	2170	37	217
13	6040	232	3950	7130	297	11000	1980	32	171
14	6570	288	6260	17200	653	31800	1790	28	135
15	15900	740	31700	7920	282	6260	1740	25	117
16	9360	312	8120	11900	524	17800	1970	24	128
17	5310	217	3140	8640	337	8100	2450	32	212
18	3430	248	2300	10800	546	17500	2080	29	163
19	2460	195	1300	11600	461	15100	1840	28	139
20	2010	133	722	10400	428	13600	1650	25	111
21	1690	90	411	18200	625	30600	1500	23	93
22	1480	59	236	15200	434	17900	1380	20	75
23	1270	29	99	13500	288	11500	1270	19	65
24	1100	28	83	9700	163	4270	1180	18	57
25	988	28	75	7350	110	2180	1110	18	54
26	900	27	66	7680	210	4350	1060	19	54
27	828	26	58	6190	165	2760	4200	231	4200
28	781	25	53	6020	200	3610	11900	299	9920
29	737	25	50	---	---	---	5920	138	2210
30	721	24	47	---	---	---	3970	78	836
31	800	26	56	---	---	---	3200	50	432
TOTAL	97784	---	151668.5	176779	---	198681	111430	---	54032
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	2740	36	266	1110	11	33	453	18	22
2	2430	29	190	1060	10	29	430	17	20
3	2200	24	143	980	10	26	415	17	19
4	1980	21	112	878	10	24	406	16	18
5	1800	19	92	1050	14	40	391	15	16
6	1690	18	82	1530	30	124	333	15	13
7	1680	17	77	1550	28	117	277	14	10
8	1550	17	71	1720	34	158	209	14	7.9
9	1420	16	61	1570	32	136	184	13	6.5
10	1340	16	58	1450	30	117	182	13	6.4
11	1250	15	51	1380	28	104	177	12	5.7
12	1190	15	48	1250	26	88	170	12	5.5
13	1120	14	42	902	25	61	165	12	5.3
14	1050	13	37	722	23	45	157	12	5.1
15	998	12	32	702	20	38	145	12	4.7
16	960	11	29	657	18	32	138	12	4.5
17	956	11	28	662	19	34	160	14	6.0
18	889	11	26	839	27	61	175	17	8.0
19	796	10	21	853	27	62	172	20	9.3
20	796	10	21	681	25	46	168	23	10
21	766	10	21	587	23	36	159	17	7.3
22	763	9	19	542	22	32	148	8	3.2
23	908	10	25	522	22	31	133	8	2.9
24	1800	25	121	473	29	37	128	8	2.8
25	1410	20	76	474	26	33	125	9	3.0
26	1260	15	51	533	23	33	122	9	3.0
27	1670	21	95	524	22	31	119	9	2.9
28	1490	19	76	513	20	28	122	11	3.6
29	1290	15	52	502	19	26	116	13	4.1
30	1180	13	41	489	19	25	118	13	4.1
31	---	---	---	469	18	23	---	---	---
TOTAL	41372	---	2064	27174	---	1710	6197	---	239.8

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	115	13	4.0	134	8	2.9	150	6	2.4
2	116	13	4.1	134	9	3.3	156	6	2.5
3	113	16	4.9	136	8	2.9	160	6	2.6
4	121	18	5.9	143	8	3.1	157	6	2.5
5	122	19	6.3	151	7	2.9	154	6	2.5
6	126	19	6.5	157	7	3.0	144	5	1.9
7	127	16	5.5	156	8	3.4	128	5	1.7
8	127	13	4.5	157	9	3.8	125	5	1.7
9	128	12	4.1	159	9	3.9	125	5	1.7
10	129	11	3.8	157	10	4.2	124	4	1.3
11	129	10	3.5	155	10	4.2	253	4	2.7
12	133	10	3.6	155	11	4.6	209	4	2.3
13	131	10	3.5	158	12	5.1	140	5	1.9
14	127	10	3.4	157	11	4.7	128	5	1.7
15	139	10	3.8	157	10	4.2	129	5	1.7
16	150	10	4.1	159	9	3.9	129	6	2.1
17	154	10	4.2	159	9	3.9	128	6	2.1
18	148	11	4.4	158	9	3.8	129	6	2.1
19	136	11	4.0	160	9	3.9	132	6	2.1
20	127	8	2.7	164	10	4.4	134	5	1.8
21	128	10	3.5	165	10	4.5	137	5	1.8
22	139	10	3.8	159	10	4.3	143	5	1.9
23	150	10	4.1	153	9	3.7	147	6	2.4
24	148	11	4.4	155	9	3.8	148	8	3.2
25	126	9	3.1	152	8	3.3	155	8	3.3
26	119	9	2.9	155	8	3.3	160	7	3.0
27	123	8	2.7	156	8	3.4	159	7	3.0
28	131	8	2.8	152	8	3.3	154	6	2.5
29	140	8	3.0	155	7	2.9	146	6	2.4
30	138	8	3.0	155	7	2.9	143	6	2.3
31	133	8	2.9	154	7	2.9	---	---	---
TOTAL	4073	---	123.0	4777	---	114.4	4426	---	67.1
YEAR	492902.0		409026.9						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPERATURE, WATER (DEG C)	STREAM-FLOW, INSTANTANEOUS (CFS)	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. SIEVE DIAM. % FINER THAN 1.00 MM
JAN 23...	1230	9.0	1220	29	99	--	--	--	--
FEB 14...	1330	11.0	17200	594	27600	44	55	65	--
FEB 21...	1310	9.5	19100	538	26400	--	41	50	--
MAR 19...	1330	13.5	1830	28	139	--	--	--	--
MAR 29...	1400	--	5630	129	2060	--	--	--	--
JAN 23...		--	--	96	99	100	--	--	--
FEB 14...		76	85	89	95	99	100	--	--
FEB 21...		62	70	76	82	94	99	100	--
MAR 19...		--	--	92	98	100	--	--	--
MAR 29...		--	--	81	95	100	--	--	--

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED	BED	BED	BED
					MAT. SIEVE DIAM. % FINER THAN .062 MM	MAT. SIEVE DIAM. % FINER THAN .125 MM	MAT. SIEVE DIAM. % FINER THAN .250 MM	MAT. SIEVE DIAM. % FINER THAN .500 MM
DEC								
19...	1425	9.5	1	261	1	1	6	22
19...	1430	9.5	1	261	--	1	1	8
19...	1435	9.5	1	261	--	1	2	7
19...	1440	9.5	1	261	1	1	5	20
AUG								
22...	1000	--	1	160	--	--	--	2
22...	1005	--	1	160	--	--	1	8
22...	1010	--	1	160	1	1	2	7
22...	1015	--	1	160	1	1	2	9
22...	1020	--	1	160	--	1	4	15
DATE	1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM	64.0 MM	
DEC								
19...	31	37	44	54	68	93	100	
19...	24	34	44	58	80	94	100	
19...	13	23	36	55	78	98	100	
19...	26	29	37	52	71	96	100	
AUG								
22...	4	8	17	34	66	100	--	
22...	13	16	23	38	62	73	100	
22...	14	20	26	37	44	90	100	
22...	15	21	30	44	58	93	100	
22...	25	34	49	67	88	100	--	

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	SEDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)	DATE	TIME	SEDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)	DATE	TIME	SEDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)
OCT				JAN				JUL			
01...	--	23	2.0	31...	--	24	13	05...	--	19	4.7
05...	--	12	3.0	FEB				09...	--	13	4.4
09...	--	6	4.0	14...	--	594	260	09...	1215	--	3.5
19...	--	6	3.0	14...	1330	594	--	12...	--	10	4.3
19...	1130	--	1.1	15...	--	218	200	15...	--	10	3.7
24...	--	5	1.0	18...	--	656	230	18...	--	11	4.7
NOV				20...	1330	306	110	19...	--	12	4.0
04...	--	6	4.0	20...	2315	824	300	20...	--	9	3.8
11...	--	3	1.0	21...	1230	534	230	24...	--	11	3.3
16...	1415	--	.80	21...	1310	538	--	27...	--	8	3.2
17...	--	24	4.0	21...	1315	--	220	31...	--	8	3.6
21...	--	8	4.0	23...	--	242	110	AUG			
28...	--	5	2.0	27...	--	148	60	02...	--	9	3.6
DEC				MAR				06...	--	7	2.8
11...	--	5	1.0	01...	--	406	160	06...	1315	--	2.9
12...	--	2	1.0	05...	--	109	42	08...	--	10	3.6
12...	1205	--	.60	07...	--	81	30	10...	--	10	4.2
14...	--	10	2.0	19...	1330	33	13	13...	--	12	3.7
18...	--	6	2.0	19...	1430	--	16	17...	--	9	3.4
19...	--	7	3.0	19...	1945	25	13	21...	--	10	3.5
26...	--	3	1.0	22...	--	19	10	27...	--	8	3.3
30...	--	4	2.0	29...	--	129	65	31...	--	7	3.7
JAN				29...	1400	129	--	SEP			
02...	--	5	1.0	APR				02...	--	6	3.4
04...	--	5	2.0	09...	--	16	8.0	06...	--	52	2.7
06...	--	4	1.0	16...	--	11	4.0	12...	--	4	2.0
08...	--	20	9.0	16...	1100	--	2.3	17...	--	6	2.5
09...	--	90	80	MAY				17...	1145	--	3.2
10...	--	69	60	09...	--	31	15	18...	--	6	2.6
11...	0800	1550	700	15...	--	20	8.0	21...	--	5	3.1
11...	1815	1430	600	15...	1300	--	5.1	25...	--	8	3.3
13...	--	251	150	JUN							
15...	--	450	220	07...	--	14	6.0				
17...	1730	205	85	11...	--	12	6.0				
17...	1815	154	85	11...	1120	--	5.0				
19...	--	185	90	15...	--	12	6.5				
23...	1230	29	15	20...	--	26	5.0				
23...	1250	29	17	22...	--	8	3.7				
23...	1315	29	15	26...	--	9	4.3				
27...	--	26	11	29...	--	13	5.3				

GARCIA RIVER BASIN

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11467600 GARCIA RIVER NEAR POINT ARENA, CA

LOCATION.--Lat 38°55'35", long 123°37'45", in SW¼SW¼ sec. 3, T.12 N., R.16 W., Mendocino County, Hydrologic Unit 18010108, on left bank 0.9 mi (1.4 km) downstream from North Fork, and 3.5 mi (5.6 km) northeast of town of Point Arena.

DRAINAGE AREA.--98.5 mi² (255.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1951-56, and annual maximum water years 1952-56, August 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 55.31 ft (16.858 m) National Geodetic Vertical Datum of 1929. July 17, 1951, to Jan. 31, 1956, crest-stage only, at site 15 ft (5 m) upstream at different datum.

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

AVERAGE DISCHARGE.--17 years, 321 ft³/s (9.091 m³/s), 232,600 acre-ft/yr (287 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,300 ft³/s (858 m³/s) Jan. 16, 1974, gage height, 17.41 ft (5.307 m), from rating curve extended above 9,600 ft³/s (272 m³/s) on basis of slope-area measurements at gage heights 15.11 ft (4.606 m) and 16.63 ft (5.069 m); minimum daily, 2.3 ft³/s (0.065 m³/s) Sept. 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,140 ft³/s (174 m³/s) Feb. 13 (1400 hrs), gage height, 9.74 ft (2.969 m), no other peak above base of 5,000 ft³/s (142 m³/s); minimum daily, 11 ft³/s (0.31 m³/s) many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	11	30	15	70	1710	274	148	67	34	19	14
2	14	11	30	14	67	1020	241	137	65	34	19	17
3	14	11	25	15	63	769	213	126	62	33	19	17
4	14	11	22	17	60	608	193	118	61	32	18	16
5	14	11	21	21	58	506	179	236	59	32	18	15
6	14	11	20	21	57	427	177	286	57	31	18	14
7	13	11	20	21	55	367	163	458	56	31	18	14
8	13	11	19	202	53	325	151	370	54	31	17	13
9	13	11	19	233	53	291	144	300	52	31	17	13
10	13	11	19	374	55	262	138	254	51	35	17	13
11	13	11	19	3540	57	236	147	215	49	32	17	13
12	13	11	19	1060	79	216	134	191	49	30	16	13
13	13	13	18	507	3810	200	125	173	47	29	16	12
14	13	14	18	776	2190	188	119	160	47	27	16	12
15	13	13	18	1320	1770	225	113	150	46	26	16	12
16	12	12	17	604	2830	234	115	141	45	26	16	12
17	12	12	21	370	1240	216	122	131	45	25	16	12
18	12	12	26	271	2420	197	111	122	45	25	15	12
19	12	20	22	199	1450	186	102	115	44	24	15	12
20	12	47	19	163	1300	175	98	109	43	24	15	12
21	12	36	18	144	2070	165	94	106	42	23	15	12
22	12	28	17	128	1760	157	95	101	41	23	15	11
23	11	25	17	115	1300	150	133	96	40	23	15	11
24	11	23	17	105	885	143	194	91	39	22	15	11
25	11	21	17	98	659	136	147	88	39	22	15	11
26	11	20	16	89	674	141	152	84	38	21	14	11
27	11	20	16	82	544	1170	214	80	38	21	14	11
28	11	19	16	78	1330	901	200	77	37	21	14	11
29	11	18	16	74	---	538	176	75	36	20	14	11
30	11	19	15	73	---	395	160	72	35	20	14	11
31	11	---	15	74	---	319	---	70	---	19	14	---
TOTAL	384	504	602	10803	26959	12573	4624	4880	1429	827	497	379
MEAN	12.4	16.8	19.4	348	963	406	154	157	47.6	26.7	16.0	12.6
MAX	14	47	30	3540	3810	1710	274	458	67	35	19	17
MIN	11	11	15	14	53	136	94	70	35	19	14	11
AC-FT	762	1000	1190	21430	53470	24940	9170	9680	2830	1640	986	752
CAL YR 1978 TOTAL	153584		MEAN 421	MAX 8970	MIN 11	AC-FT 304600						
WTR YR 1979 TOTAL	64461		MEAN 177	MAX 3810	MIN 11	AC-FT 127900						

11467600 GARCIA RIVER NEAR POINT ARENA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to December 1978 (discontinued).

CHEMICAL ANALYSES: Water year 1977.

WATER TEMPERATURES: Water years 1964 to December 1978 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1963 to December 1978 (discontinued).

INSTRUMENTATION.--Temperature recorder since October 1963.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 22.0°C June 22, 1964, Aug. 29, 1968, June 25, 1973, Aug. 1, 1975, July 8, 1976; minimum recorded, 5.0°C Dec. 14-16, 1967, Dec. 11, 1972.

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER TO DECEMBER 1978

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	15.5	15.5	12.5	13.0	11.0						
2	19.5	15.5	15.5	12.5	12.0	10.5						
3	19.0	15.5	15.5	12.5	12.5	10.0						
4	18.0	15.5	16.5	14.0	12.5	10.5						
5	17.0	15.5	16.5	14.5	12.0	10.5						
6	18.5	16.0	16.5	14.0	11.5	10.0						
7	18.5	15.5	16.5	14.0	11.5	9.5						
8	18.5	15.0	16.0	14.0	11.0	9.5						
9	19.0	16.0	15.0	12.5	11.5	10.0						
10	19.0	15.5	14.0	11.5	12.0	10.5						
11	19.0	15.5	13.5	11.0	12.5	11.0						
12	19.0	15.5	12.0	11.0	12.5	11.5						
13	19.5	15.5	14.0	11.5	12.5	10.5						
14	17.5	15.5	13.5	11.0	12.0	10.5						
15	18.5	15.5	13.5	10.5	---	---						
16	18.5	16.0	13.5	12.5	---	---						
17	18.5	16.0	14.0	12.0	---	---						
18	18.0	15.5	13.5	12.5	---	---						
19	16.5	15.5	14.0	13.0	---	---						
20	18.5	15.5	14.0	12.5	---	---						
21	18.0	15.5	13.5	12.0	---	---						
22	18.0	15.5	13.5	12.0	---	---						
23	18.0	16.0	13.0	11.0	---	---						
24	17.5	15.5	13.0	11.5	---	---						
25	17.5	15.5	13.0	11.0	---	---						
26	16.0	15.5	13.0	11.0	---	---						
27	17.0	15.0	12.5	11.0	---	---						
28	17.0	14.5	13.0	11.0	---	---						
29	16.0	14.0	13.5	12.5	---	---						
30	15.5	13.5	13.5	13.0	---	---						
31	16.0	13.0	---	---	---	---						
MONTH	19.5	13.0	16.5	10.5	---	---						

11468000 NAVARRO RIVER NEAR NAVARRO, CA

LOCATION.--Lat 39°10'20", long 123°40'06", in SE¼ sec.7, T.15 N., R.16 W., Mendocino County, Hydrologic Unit 18010108, on right bank 2.9 mi (4.7 km) downstream from North Fork, 5.2 mi (8.4 km) upstream from mouth, and 6.8 mi (10.9 km) west of Navarro.

DRAINAGE AREA.--303 mi² (785 km²).

WATER-DISCHARGE RECORDS

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 (1.460 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1969, at site 0.2 mi (0.3 km) upstream at datum 1.86 ft (0.567 m) higher.

REMARKS.--Records good except those for period of no gage-height record, June 27 to Aug. 2, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--29 years, 514 ft³/s (14.56 m³/s), 372,400 acre-ft/yr (459 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,500 ft³/s (1,830 m³/s) Dec. 22, 1955, gage height, 40.60 ft (12.375 m) site and datum then in use, from rating curve extended above 19,000 ft³/s (538 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.23 ft³/s (0.007 m³/s) July 13, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 38.2 ft (11.64 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,400 ft³/s (295 m³/s) Jan. 11 (1400 hrs), gage height, 17.53 ft (5.343 m), no other peak above base of 7,000 ft³/s (198 m³/s); minimum daily, 3.9 ft³/s (0.11 m³/s) Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	11	31	19	104	4110	559	167	65	24	7.1	4.8
2	15	11	39	21	98	2200	479	155	62	22	6.7	4.8
3	15	11	30	19	93	1600	415	145	57	22	7.3	4.8
4	17	10	26	24	89	1220	367	136	53	21	6.8	6.3
5	16	10	25	25	86	975	330	170	52	21	5.9	6.6
6	14	10	23	25	82	815	316	264	51	20	6.2	6.7
7	14	10	21	26	79	686	294	399	49	20	6.2	5.9
8	14	10	21	50	79	594	256	458	47	22	6.3	7.5
9	14	9.7	21	261	79	518	235	374	45	24	6.1	7.4
10	14	12	20	200	78	452	213	320	43	23	5.2	7.3
11	13	9.1	20	6390	77	400	228	273	41	20	4.8	8.0
12	13	8.8	21	1750	83	366	221	239	39	20	4.7	8.5
13	14	9.7	19	757	3360	337	198	212	37	19	4.7	7.0
14	13	12	19	1070	3430	310	184	188	36	18	4.3	6.7
15	13	18	20	2410	2250	329	171	174	35	17	4.0	6.1
16	13	15	20	1130	4700	363	166	161	35	17	4.5	5.1
17	13	14	25	659	2060	351	182	148	34	16	4.8	5.6
18	13	13	34	513	3710	328	168	139	35	15	5.2	6.5
19	13	20	42	390	2570	315	150	128	34	15	5.2	6.0
20	12	37	44	303	2200	315	141	121	33	13	4.5	6.7
21	12	33	33	254	4420	315	135	115	33	13	3.9	6.6
22	12	27	33	220	3760	266	132	112	31	13	4.4	5.4
23	12	24	30	190	2900	211	169	105	30	12	4.7	5.3
24	13	22	29	169	1920	196	267	100	28	11	5.1	6.0
25	13	21	25	152	1350	184	213	93	28	10	4.8	6.2
26	13	20	25	132	1700	182	189	89	28	9.6	5.0	5.6
27	12	18	25	118	1270	2310	245	80	28	9.4	5.3	8.1
28	12	20	26	111	2530	2210	229	76	27	9.4	4.6	8.7
29	12	20	30	106	---	1220	196	74	25	8.8	4.9	8.1
30	11	19	23	102	---	864	179	69	25	8.2	4.4	6.7
31	10	---	19	106	---	672	---	67	---	7.6	4.9	---
TOTAL	409	485.3	819	17702	45157	25214	7227	5351	1166	501.0	162.5	195.0
MEAN	13.2	16.2	26.4	571	1613	813	241	173	38.9	16.2	5.24	6.50
MAX	17	37	44	6390	4700	4110	559	458	65	24	7.3	8.7
MIN	10	8.8	19	19	77	182	132	67	25	7.6	3.9	4.8
AC-FT	811	963	1620	35110	89570	50010	14330	10610	2310	994	322	387
CAL YR 1978 TOTAL	258778.5		MEAN 709	MAX 16500	MIN 7.9	AC-FT 513300						
WTR YR 1979 TOTAL	104388.8		MEAN 286	MAX 6390	MIN 3.9	AC-FT 207100						

NAVARRO RIVER BASIN

11468000 NAVARRO RIVER NEAR NAVARRO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.

CHEMICAL ANALYSES: Water years 1959-66, 1973 to current year.

WATER TEMPERATURES: Water years 1966 to February 1979 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1965 to February 1979.

INSTRUMENTATION.--Temperature recorder since October 1965.

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.

COOPERATION.--Chemical-quality records were furnished by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 26.5°C July 8, 1976; minimum recorded, 3.0°C Jan. 2, 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 19.5°C Oct. 1-3; minimum for period recorded, 3.5°C Jan. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STHFAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 04...	0730	14	266	7.2	10.0	.00	9.5	84
JAN 04...	1535	25	283	--	9.0	1.0	--	--
MAR 14...	1705	288	212	7.5	12.0	3.0	9.9	92
MAY 09...	1725	356	219	7.5	16.0	3.0	9.7	98
JUL 11...	1625	707	248	7.8	24.0	.00	10.5	124
SEP 06...	1550	8.6	265	7.5	22.0	1.0	9.5	108

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO FEBRUARY 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	16.5	12.5	10.5	12.5	10.0	5.0	3.5	7.0	6.0		
2	19.5	16.0	12.5	10.0	10.0	9.0	6.0	4.5	6.5	5.5		
3	19.5	16.5	13.0	10.5	9.0	8.0	7.0	5.5	6.0	5.0		
4	18.5	16.0	14.5	11.5	9.0	7.0	8.5	7.5	7.0	5.5		
5	17.5	16.0	14.5	12.5	8.5	6.0	9.0	8.0	8.0	6.0		
6	17.5	16.5	14.0	12.0	7.0	5.0	9.5	8.5	9.0	7.5		
7	18.0	15.5	12.5	11.5	6.0	5.0	9.5	9.0	9.5	8.0		
8	17.5	14.5	12.5	10.5	5.5	4.0	10.5	9.5	9.5	9.0		
9	18.5	16.0	12.5	11.0	7.0	5.5	10.5	9.5	10.5	9.5		
10	18.5	16.0	11.0	9.0	8.0	6.5	10.5	10.0	11.0	10.0		
11	18.5	15.5	9.5	8.0	9.5	8.0	12.0	10.5	11.5	10.5		
12	18.5	15.5	8.0	7.0	10.5	9.5	11.5	11.0	11.0	10.5		
13	18.5	15.5	9.5	8.0	10.5	9.5	11.0	10.0	10.5	10.0		
14	17.5	15.5	9.5	8.0	9.5	8.5	10.0	9.5	10.0	9.5		
15	18.5	16.5	9.5	7.5	8.5	7.5	10.5	9.5	---	---		
16	19.0	17.0	11.0	9.0	7.5	6.5	10.5	9.5	---	---		
17	18.5	16.5	11.5	10.0	7.5	7.0	9.5	9.0	---	---		
18	18.0	15.5	11.5	11.0	7.5	7.0	9.0	9.0	---	---		
19	16.5	15.5	12.0	11.0	7.0	6.0	9.0	8.5	---	---		
20	17.0	15.5	12.0	10.5	6.0	5.0	9.0	8.5	---	---		
21	17.0	15.5	11.5	10.5	6.0	4.5	9.5	8.5	---	---		
22	17.0	15.0	11.5	10.0	7.0	6.0	9.5	9.0	---	---		
23	16.5	14.0	11.0	9.5	8.0	6.5	9.5	9.0	---	---		
24	16.0	14.0	10.5	9.5	8.0	7.5	9.0	8.5	---	---		
25	16.5	14.5	10.5	9.5	8.5	7.5	8.5	8.0	---	---		
26	15.0	14.5	10.0	8.5	9.0	7.5	8.0	7.0	---	---		
27	15.0	14.0	10.0	8.5	8.5	7.5	7.5	6.5	---	---		
28	15.5	13.5	10.5	8.5	9.0	8.0	7.0	6.5	---	---		
29	14.5	13.0	12.0	10.5	8.0	7.0	6.5	5.5	---	---		
30	13.5	11.5	13.0	11.5	7.0	5.5	6.5	6.0	---	---		
31	13.5	10.5	---	---	5.5	4.0	7.0	6.0	---	---		
MONTH	19.5	10.5	14.5	7.0	12.5	4.0	12.0	3.5	11.5	5.0		

11468500 NOYO RIVER NEAR FORT BRAGG, CA

LOCATION.--Lat 39°25'42", long 123°44'12", in NE¼ sec.15, T.18 N., R.17 W., Mendocino County, Hydrologic Unit 18010108, on right bank 0.7 mi (1.1 km) downstream from South Fork, and 3.5 mi (5.6 km) east of Fort Bragg.

DRAINAGE AREA.--106 mi² (275 km²).

WATER-DISCHARGE RECORDS

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 (3.575 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--28 years, 213 ft³/s (6.032 m³/s), 154,300 acre-ft/yr (190 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,600 ft³/s (753 m³/s) Mar. 29, 1974, gage height, 27.14 ft (8.272 m), from rating curve extended above 4,500 ft³/s (127 m³/s) on basis of slope-conveyance study; minimum daily, 0.79 ft³/s (0.022 m³/s) Sept. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,390 ft³/s (67.7 m³/s) Feb. 13, gage height, 9.93 ft (3.027 m), no peak above base of 2,400 ft³/s (68 m³/s); minimum daily, 1.6 ft³/s (0.045 m³/s) Oct. 3, 5-9, 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	4.2	43	9.6	35	1610	213	79	42	17	6.6	4.6
2	1.8	4.2	37	9.5	33	914	186	73	39	17	6.7	5.5
3	1.6	4.2	22	9.7	31	702	164	68	38	16	6.3	12
4	1.7	4.3	17	11	30	586	146	65	37	16	6.1	7.6
5	1.6	4.6	16	10	29	497	132	137	36	15	5.9	4.6
6	1.6	4.9	14	9.2	28	407	128	182	34	15	5.7	4.6
7	1.6	5.2	12	8.7	27	333	115	348	33	14	5.6	4.3
8	1.6	5.2	11	29	26	281	103	391	31	15	5.5	4.3
9	1.6	5.1	11	82	26	240	95	324	30	17	5.4	4.2
10	1.7	5.3	10	173	28	206	88	260	28	16	5.2	4.0
11	1.7	5.3	11	1510	30	181	105	213	27	14	5.0	3.9
12	1.6	5.7	11	569	49	162	94	181	26	14	5.0	3.8
13	1.6	6.4	11	302	1800	147	86	156	26	13	4.8	4.4
14	1.8	6.9	11	429	1230	135	80	137	25	12	4.9	3.4
15	2.2	7.5	10	542	752	154	74	123	25	12	4.8	3.3
16	2.2	7.2	10	355	1050	155	76	110	25	12	4.8	3.5
17	3.0	7.2	23	240	725	163	83	99	25	11	4.7	3.2
18	2.9	7.2	23	183	851	151	75	89	24	11	4.8	3.1
19	3.3	18	18	138	787	146	69	76	23	11	4.7	3.0
20	3.5	42	15	111	676	136	65	75	23	10	4.7	3.0
21	3.9	25	13	93	842	126	62	71	21	10	4.8	3.2
22	4.3	18	12	80	869	119	61	68	21	10	4.7	3.3
23	4.2	15	12	69	927	108	93	64	20	9.7	4.6	3.6
24	4.5	12	12	62	755	98	138	60	20	9.0	4.5	3.6
25	4.2	11	11	57	572	92	121	58	20	8.4	4.6	3.6
26	4.1	9.7	11	51	595	94	118	55	20	8.3	4.6	3.6
27	4.2	9.3	11	45	512	377	114	52	19	8.1	4.3	3.6
28	4.2	9.0	11	43	1310	559	99	50	18	8.3	4.3	3.6
29	4.2	9.0	11	40	---	412	89	48	18	7.7	4.4	3.6
30	4.2	10	10	39	---	313	84	46	17	7.3	4.4	3.5
31	4.2	---	9.9	37	---	252	---	44	---	7.0	4.6	---
TOTAL	92.0	288.6	459.9	5346.7	14625	9856	3156	3802	791	371.8	157.0	125.5
MEAN	2.97	9.62	14.8	172	522	318	105	123	26.4	12.0	5.06	4.18
MAX	7.2	42	43	1510	1800	1610	213	391	42	17	6.7	12
MIN	1.6	4.2	9.9	8.7	26	92	61	44	17	7.0	4.3	3.0
AC-FT	182	572	912	10610	29010	19550	6260	7540	1570	737	311	249
CAL YR 1978	TOTAL	76168.1	MEAN	209	MAX	3240	MIN	1.6	AC-FT	151100		
WTR YR 1979	TOTAL	39071.5	MEAN	107	MAX	1800	MIN	1.6	AC-FT	77500		

NOYO RIVER BASIN

11468500 NOYO RIVER NEAR FORT BRAGG, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to February 1979 (discontinued).

CHEMICAL ANALYSES: Water years 1959-66, 1977.

WATER TEMPERATURES: Water years 1966 to February 1979 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1965 to February 1979.

INSTRUMENTATION.--Temperature recorder since December 1965.

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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 24.5°C July 14, 22, 23, 1976, July 30, 1977; minimum recorded, 2.0°C Dec. 17-21, 1965.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 18.0°C Oct. 2, 3, 15-17; minimum for period recorded, 2.5°C Dec. 31, Jan. 1.

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO FEBRUARY 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.5	13.5	11.0	8.0	11.5	9.0	3.5	2.5	5.5	4.0		
2	18.0	13.0	11.0	7.5	9.0	7.0	5.0	3.0	4.5	3.0		
3	18.0	13.5	11.5	8.5	7.5	6.0	6.5	4.0	4.5	3.0		
4	17.5	14.0	12.5	10.0	8.0	5.5	8.0	6.0	5.5	3.5		
5	16.0	13.0	13.5	11.5	7.5	6.0	8.5	7.5	7.0	5.0		
6	16.0	15.0	13.0	10.0	6.0	5.0	8.5	7.5	8.5	7.0		
7	17.5	14.0	12.5	9.5	5.5	4.0	9.0	7.5	8.5	6.5		
8	17.0	12.0	12.0	9.0	5.0	3.0	9.5	8.5	9.0	8.0		
9	17.5	15.0	11.5	9.5	7.0	4.5	10.0	9.0	10.5	8.5		
10	17.5	13.5	9.5	7.0	8.0	5.0	10.0	9.0	10.0	9.0		
11	17.5	13.0	7.5	6.5	8.5	7.0	11.0	10.0	10.5	9.0		
12	17.5	13.5	7.0	6.0	9.5	7.5	11.0	10.0	10.0	9.5		
13	17.5	13.0	8.0	6.0	8.5	7.0	10.0	9.0	10.0	9.5		
14	16.0	13.5	7.5	6.0	7.5	6.5	9.5	9.0	10.0	9.5		
15	18.0	15.5	7.5	5.5	6.5	5.5	10.0	9.5	---	---		
16	18.0	16.0	9.5	7.5	6.0	5.0	9.5	8.5	---	---		
17	18.0	15.0	10.5	8.0	6.5	5.5	8.5	8.0	---	---		
18	16.0	14.0	10.5	9.5	6.5	5.5	8.0	7.5	---	---		
19	15.0	14.0	11.5	10.5	5.5	4.5	7.5	7.0	---	---		
20	16.5	14.5	11.5	11.0	5.0	3.5	8.0	6.5	---	---		
21	16.5	14.5	11.0	9.5	5.0	3.5	8.5	7.5	---	---		
22	17.0	13.5	10.5	8.5	6.5	5.0	8.0	7.0	---	---		
23	16.0	12.0	9.5	7.5	7.5	6.0	8.0	7.5	---	---		
24	15.0	12.0	9.0	7.5	8.5	6.5	8.0	7.5	---	---		
25	15.0	12.5	9.0	7.5	8.0	6.5	7.5	6.0	---	---		
26	14.0	13.5	9.0	7.0	7.5	6.5	6.0	4.5	---	---		
27	14.5	13.0	8.5	7.0	7.5	6.0	6.0	5.0	---	---		
28	15.0	13.0	10.0	7.5	7.0	5.5	5.5	4.5	---	---		
29	14.0	11.5	11.0	10.0	6.5	5.0	4.5	3.5	---	---		
30	13.0	10.0	11.5	11.0	5.0	3.5	5.5	4.5	---	---		
31	12.0	8.5	---	---	3.5	2.5	5.5	4.5	---	---		
MONTH	18.0	8.5	13.5	5.5	11.5	2.5	11.0	2.5	10.5	3.0		

11469000 MATTOLE RIVER NEAR PETROLIA, CA

LOCATION.--Lat 40°18'42", long 124°15'48", in NW¼ sec.11, T.2 S., R.2 W., Humboldt County, Hydrologic Unit 18010107, on right bank 0.2 mi (0.3 km) upstream from Clear Creek, 1.5 mi (2.4 km) southeast of Petrolia, and 1.7 mi (2.7 km) upstream from North Fork.

DRAINAGE AREA.--240 mi² (622 km²).

WATER-DISCHARGE RECORDS

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 (12 m), from topographic map. November 1911 to December 1913, nonrecording gages at several sites upstream within 0.3 mi (0.5 km) of present site at various datums. Dec. 11, 1950, to July 14, 1955, at site 0.3 mi (0.5 km) upstream at datum 7.48 ft (2.280 m) higher. July 15, 1955, to Oct. 26, 1967, at site 0.4 mi (0.6 km) downstream at different datum.

REMARKS.--Records good. Diversions for irrigation of about 350 acres (1.42 km²) above station.

AVERAGE DISCHARGE.--31 years, 1,347 ft³/s (38.15 m³/s) 975,900 acre-ft/yr (1.20 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,400 ft³/s (2,560 m³/s) Dec. 22, 1955, gage height, 29.60 ft (9.022 m) site and datum then in use, from rating curve extended above 26,000 ft³/s (736 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 17 ft³/s (0.48 m³/s) Sept. 5, 15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s (425 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 11	1115	*16500	467	13.15	4.008
Feb. 13	0830	16400	464	13.13	4.002

Minimum daily discharge, 38 ft³/s (1.08 m³/s) Sept. 25-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	43	222	62	349	4740	1370	800	310	124	61	47
2	58	42	157	62	329	3230	1220	745	301	121	58	113
3	56	42	111	60	309	3010	1100	696	287	118	58	126
4	56	42	92	60	298	2600	1000	651	279	116	58	92
5	56	42	89	65	287	2300	924	1980	257	116	54	72
6	56	42	81	65	281	2050	887	2320	249	111	54	61
7	54	42	74	64	269	1800	810	3300	245	106	53	58
8	54	41	69	334	260	1580	747	2710	233	106	51	56
9	54	40	64	1100	274	1380	726	2090	225	161	48	51
10	54	40	64	2360	438	1200	701	1720	218	283	48	50
11	54	40	72	11800	1510	1080	808	1470	210	178	47	48
12	54	40	87	4320	2130	990	693	1290	203	132	45	47
13	53	40	87	2050	13400	920	645	1150	192	106	44	45
14	53	41	79	2600	5510	880	601	1030	192	99	44	45
15	53	41	75	3020	3480	950	571	946	188	97	45	44
16	51	41	68	1830	3420	1100	974	857	188	92	45	42
17	51	41	162	1400	2610	1050	1350	784	188	96	47	42
18	51	41	167	1210	4860	955	1090	723	181	86	45	42
19	51	110	141	996	3890	870	932	666	174	84	44	42
20	51	303	116	845	3390	805	829	631	168	82	44	42
21	51	183	101	749	4440	774	752	591	158	82	45	41
22	50	127	93	667	4500	739	717	566	155	78	45	41
23	48	98	88	602	4410	692	773	536	152	78	45	41
24	47	83	84	561	3420	649	1090	500	149	74	44	40
25	47	75	80	554	3030	613	910	472	143	72	42	38
26	47	68	76	492	3750	599	868	451	140	71	40	38
27	45	64	76	460	2620	3110	1010	427	140	69	40	38
28	44	63	74	450	5260	5590	979	401	137	67	40	38
29	44	62	71	412	---	2500	906	383	129	65	41	38
30	44	74	67	379	---	1900	852	360	126	64	41	38
31	44	---	64	371	---	1610	---	337	---	61	41	---
TOTAL	1590	2051	2951	40200	78724	52266	26835	31583	5917	3195	1457	1556
MEAN	51.3	68.4	95.2	1297	2812	1686	895	1019	197	103	47.0	51.9
MAX	59	303	222	11800	13400	5590	1370	3300	310	283	61	126
MIN	44	40	64	60	260	599	571	337	126	61	40	38
AC-FT	3150	4070	5850	79740	156100	103700	53230	62640	11740	6340	2890	3090
CAL YR 1978 TOTAL	523802	MEAN	1435	MAX	24000	MIN	36	AC-FT	1039000			
WTR YR 1979 TOTAL	248325	MEAN	680	MAX	13400	MIN	38	AC-FT	492600			

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 (0.5 km) downstream from Rice Fork, and 10.2 mi (16.4 km) northeast of town of Potter Valley.

DRAINAGE AREA.--289 mi² (749 km²).

PERIOD OF RECORD.--October 1922 to September 1928 (daily gage heights only), October 1928 to current year. Monthend contents only for some periods, published in WSP 1315-B. Prior to October 1953, published as "at Hullville."

GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 81.7 ft (24.90 m) below 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 (107 hm³) between gage heights 1,822.4 ft (555.47 m), sill of outlet gate and 1,910.0 ft (582.17 m), top of spillway gates; dead storage, 397 acre-ft (490,000 m³); spillway at gage height 1,900.0 ft (579.12 m). Water is released down Eel River to Van Arsdale Reservoir, from which it is diverted through tunnel to Potter Valley powerhouse; part is then used for irrigation and remainder flows into East Fork Russian River. Records given herein represent total contents.

COOPERATION.--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 (118 hm³) May 13, 16, 1925, gage height, 1,910.8 ft (582.41 m); maximum gage height, 1,911.84 ft (582.729 m) Dec. 22, 1964, from floodmarks; minimum contents, 10 acre-ft (12,300 m³) Dec. 9, 10, 1931, gage height, 1,822.5 ft (555.50 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 87,900 acre-ft (108 hm³) May 6, gage height, 1,910.50 ft (582.320 m); minimum, 7,190 acre-ft (8.87 hm³) Dec. 20, gage height, 1,847.24 ft (563.039 m).

Capacity table (gage height, in feet, and contents, in acre-feet)

1822.4	397	1840	3990	1865	19100	1890	48400
1824	534	1845	6080	1870	23500	1895	56700
1827	864	1850	8690	1875	28700	1900	65800
1830	1310	1855	11800	1880	34500	1905	75800
1835	2410	1860	15200	1885	41100	1910	86800

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49744	34636	17476	7349	23995	69615	77949	86335	84804	78721	69755	59879
2	49138	34079	16762	7538	23240	68441	78550	86491	84512	78636	69475	59555
3	48399	33495	16196	7586	23050	68205	79026	86739	84195	78484	69275	59206
4	47842	32719	15652	7639	22651	68285	79460	86785	83841	78379	69075	59021
5	47169	32281	15115	7693	22229	68381	79546	86785	83748	77670	68817	58401
6	46510	31775	14447	7747	21822	68579	79852	87680	83482	77474	68069	57747
7	46185	31171	13899	7855	21326	68817	80614	86785	83393	77204	67697	57276
8	46105	30608	13262	7963	20869	69615	80702	85793	83282	76888	67305	56827
9	46090	30008	12613	9117	20390	71282	80614	85435	83194	76677	66917	56376
10	46090	29413	12145	9099	19933	72914	80832	86152	83082	76423	66511	55246
11	46150	28780	11560	20614	19644	74133	81334	86693	82860	76170	66125	54634
12	46195	28097	10998	23475	19300	74990	81662	86739	82704	75917	65761	54008
13	45985	27601	10379	24035	26301	75938	81684	86785	82528	75600	65377	53404
14	45106	27032	9827	24675	34165	75347	82038	86739	82416	75284	65377	52771
15	44709	26429	9213	26462	35093	74864	82283	86648	82150	74948	64994	52131
16	44068	25816	8689	27526	40055	74759	82460	86693	82016	74780	64746	51509
17	43411	25270	8493	27773	42527	74927	82306	86785	81839	74362	64425	50896
18	42940	24685	8814	27968	45745	74382	82416	86785	81640	74215	64141	50208
19	42257	23995	8407	27881	48540	73986	82528	86785	81312	73966	63784	49904
20	41683	23580	7193	27903	49392	74154	82505	86739	81050	73633	63522	49281
21	41113	23050	7219	27762	56359	74654	82482	86785	80920	73406	63391	48681
22	40558	22492	7762	27460	59969	74654	82460	86785	80789	73140	63115	48073
23	40069	22016	8017	27204	63690	75095	82460	86716	80658	72748	62799	47475
24	39389	21443	8350	26992	66202	75495	83548	86670	80462	72338	62411	46894
25	38789	20878	8521	26736	67362	75622	83638	86560	80114	71890	62061	46255
26	38257	20304	8693	26386	68265	75284	84916	86491	79917	71686	61711	45522
27	37575	19676	8861	26001	68165	78743	86900	86785	79742	71362	61363	44885
28	37045	19066	7427	25579	68837	78076	86900	86560	79590	71080	61109	44360
29	36403	18592	7401	25250	---	76360	86964	85660	79178	70778	60745	43762
30	35831	17849	7375	24866	---	76402	86110	85545	78938	70376	60365	43184
31	35118	---	7349	24415	---	77523	---	85141	---	70075	60185	---
MAX	49744	34636	17476	27968	68837	78743	86964	87680	84804	78721	69755	59879
MIN	35118	17849	7193	7349	19300	68205	77949	85141	78938	70075	60185	43184
(†)	1880.47	1863.52	1847.55	1870.90	1901.58	1905.80	1909.70	1909.27	1906.46	1902.20	1897.00	1886.50
(‡)	-15200	-17300	-10500	+17100	+44400	+8690	+8590	-969	-6200	-8860	-9890	-17000

CAL YR 1978 † -60500
WTR YR 1979 ‡ -7100

† Gage height, in feet, at end of month.

‡ Change in contents, in acre-feet, rounded to Geological Survey standards.

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°24'29", long 122°58'13", in SE¼ sec.15, T.18 N., R.10 W., Lake County, Hydrologic Unit 18010103, Mendocino National Forest, on left bank 0.4 mi (0.6 km) upstream from Soda Creek, 0.7 mi (1.1 km) downstream from Scott Dam, and 9.7 mi (15.6 km) northeast of town of Potter Valley.

DRAINAGE AREA.--290 mi² (751 km²).

WATER-DISCHARGE RECORDS

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 (530 m), from topographic map. Prior to Dec. 15, 1930, at datum 3.00 ft (0.914 m) higher.

REMARKS.--Flow regulated by Lake Pillsbury (station 11470000) 0.7 mi (1.1 km) 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.--57 years, 543 ft³/s (15.38 m³/s), 393,400 acre-ft/yr (485 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,300 ft³/s (1,590 m³/s) Dec. 22, 1964, gage height, 24.24 ft (7.388 m), from floodmarks, from rating curve extended above 9,400 ft³/s (266 m³/s) on basis of computed flow over Scott Dam at gage heights 18.50 ft (5.639 m) and 21.85 ft (6.660 m); minimum daily, 0.1 ft³/s (0.003 m³/s) Sept. 8, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,510 ft³/s (99.4 m³/s) Mar. 1, gage height, 9.68 ft (2.950 m); minimum daily, 4.6 ft³/s (0.13 m³/s) Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	304	313	296	18	286	2920	462	373	320	149	157	161
2	305	316	292	18	288	1780	428	337	305	149	157	161
3	307	315	290	18	287	1350	380	358	303	149	157	280
4	306	314	287	18	284	1250	382	394	221	148	160	291
5	305	313	286	18	287	1240	363	464	163	148	160	294
6	304	312	282	18	288	1520	332	889	162	147	159	322
7	136	313	278	18	287	1890	331	1740	159	147	159	321
8	16	315	272	12	287	1390	334	1280	157	147	158	315
9	16	314	263	4.6	283	687	317	569	157	149	158	309
10	16	314	254	55	282	519	291	276	156	152	157	307
11	16	314	251	158	281	552	291	395	156	151	157	306
12	16	313	249	163	247	571	291	513	156	151	156	306
13	191	312	242	151	146	727	291	512	155	151	156	306
14	316	313	245	155	117	1040	291	513	155	150	155	305
15	316	314	241	168	118	1020	290	467	154	150	155	305
16	315	313	236	173	80	909	289	388	153	150	155	304
17	316	314	229	179	24	811	290	349	152	150	154	306
18	316	313	221	193	1.01	802	288	347	152	152	154	251
19	315	312	130	218	28	678	287	345	151	155	154	277
20	320	310	21	240	27	458	287	345	151	155	120	305
21	322	307	21	241	29	351	286	344	149	155	82	308
22	321	307	20	250	30	335	286	342	147	155	158	305
23	319	310	20	262	31	308	288	329	146	154	159	305
24	319	308	19	261	33	308	260	315	146	154	161	304
25	317	304	18	263	398	309	235	308	146	152	160	315
26	316	301	18	271	1200	310	240	314	148	153	160	328
27	315	304	18	276	1200	1340	277	314	151	156	160	326
28	314	305	18	275	1970	2770	980	314	151	158	160	319
29	313	302	18	278	---	1860	941	312	151	159	155	308
30	312	300	18	281	---	785	702	309	150	157	158	307
31	312	---	18	282	---	430	---	321	---	157	162	---
TOTAL	7932	9315	5071	4935.6	8919	31220	11010	14376	5123	4710	4773	8857
MEAN	256	311	164	159	319	1007	367	464	171	152	154	295
MAX	322	316	296	282	1970	2920	980	1740	320	159	162	328
MIN	16	300	18	4.6	24	308	235	276	146	147	82	161
AC-FT	15730	18480	10060	9790	17690	61920	21840	28510	10160	9340	9470	17570
CAL YR 1978	TOTAL	305564.0	MEAN 837	MAX 13800	MIN 16	AC-FT 606100						
WTR YR 1979	TOTAL	116241.6	MEAN 318	MAX 2920	MIN 4.6	AC-FT 230600						

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to April 1979 (discontinued).
 WATER TEMPERATURES: Water years 1964 to April 1979 (discontinued).
 SEDIMENT RECORDS: Water years 1966-67.
 TURBIDITY: Water years 1966-67, 1969-71.

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: October 1963 to April 1979.

INSTRUMENTATION.--Temperature recorder since October 1963.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: Maximum recorded, 24.0 Sept. 5-8, 1977; minimum recorded, 4.5°C on several days in 1969.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum for period recorded, 21.5°C Oct. 7-13; minimum for period recorded, 3.5°C Dec. 30 to Jan. 2, Jan. 4, 6.

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO APRIL 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	20.5	15.0	14.5	9.0	8.5	4.0	3.5	5.0	5.0	6.5	6.5
2	21.0	20.5	14.5	14.0	8.5	8.5	4.0	3.5	5.0	4.5	6.5	6.5
3	21.0	21.0	14.5	14.0	8.5	8.5	4.0	4.0	5.0	4.5	7.0	6.5
4	21.0	21.0	14.0	14.0	8.5	8.0	4.0	3.5	5.0	4.5	7.0	6.5
5	21.0	21.0	14.0	13.5	8.5	8.0	4.5	4.0	5.0	5.0	8.0	7.0
6	21.0	21.0	14.0	13.0	8.0	8.0	4.0	3.5	5.0	5.0	8.0	7.0
7	21.5	21.0	13.0	13.0	8.0	7.0	4.0	4.0	5.0	5.0	8.0	7.0
8	21.5	19.5	13.0	12.0	7.0	6.5	5.0	4.0	5.0	4.5	8.5	8.0
9	21.5	19.0	12.0	12.0	6.5	6.5	6.0	5.0	5.0	4.5	8.5	8.0
10	21.5	19.5	12.0	11.5	6.5	6.5	6.0	5.0	5.0	5.0	8.5	8.0
11	21.5	19.0	12.0	11.5	6.5	6.5	6.5	5.0	5.0	5.0	8.5	8.0
12	21.5	20.0	11.5	11.0	6.5	6.0	6.5	6.0	5.0	5.0	8.5	8.0
13	20.5	19.0	11.0	10.5	6.0	6.0	6.0	6.0	5.5	5.0	9.0	8.5
14	20.0	20.0	10.5	10.0	6.0	6.0	6.0	5.5	6.0	5.5	9.0	8.5
15	20.0	20.0	10.0	10.0	6.5	6.0	6.0	5.5	6.0	6.0	9.5	9.0
16	20.0	20.0	10.0	9.5	6.5	6.0	6.0	5.5	6.5	6.0	9.0	9.0
17	20.0	19.5	10.0	10.0	6.5	6.0	5.5	5.5	6.5	6.0	9.0	8.5
18	19.5	19.5	10.0	10.0	6.0	6.0	5.5	5.5	6.5	6.0	9.0	8.5
19	19.5	19.0	10.0	9.5	6.0	5.5	5.5	5.5	7.0	6.5	9.0	8.5
20	19.0	19.0	9.5	9.5	6.0	5.5	5.5	5.5	6.5	5.5	9.0	8.5
21	19.0	18.5	9.5	9.5	5.5	5.0	5.5	5.5	7.0	5.0	8.5	8.0
22	18.5	18.5	9.5	9.5	5.5	5.0	5.5	5.5	6.0	5.5	8.5	8.5
23	18.5	18.5	9.5	9.0	5.0	4.5	5.5	5.5	6.5	5.5	8.5	8.5
24	19.0	18.5	9.5	9.0	5.0	4.5	5.5	5.0	7.0	6.0	9.0	8.5
25	18.5	17.0	9.0	9.0	4.5	4.5	5.0	5.0	6.5	6.0	9.0	9.0
26	17.0	17.0	9.0	9.0	4.5	4.5	5.0	5.0	6.5	6.5	9.0	9.0
27	17.0	16.5	9.0	9.0	4.5	4.5	5.0	5.0	6.5	6.5	10.0	9.0
28	17.0	16.5	9.0	8.5	4.5	4.0	5.0	5.0	6.5	6.5	10.0	9.5
29	16.5	16.0	9.0	8.5	4.5	4.0	5.5	5.0	---	---	10.0	9.5
30	16.0	15.5	9.0	8.5	4.0	3.5	5.5	5.5	---	---	9.5	9.0
31	15.5	15.0	---	---	3.5	3.5	5.5	5.0	---	---	9.5	9.0
MONTH	21.5	15.0	15.0	8.5	9.0	3.5	6.5	3.5	7.0	4.5	10.0	6.5

APRIL

DAY	MAX	MIN	DAY	MAX	MIN	DAY	MAX	MIN
1	9.0	9.0	11	10.0	9.5	21	9.5	9.0
2	9.0	8.5	12	10.0	9.5	22	9.5	9.5
3	8.5	8.0	13	10.5	10.0	23	9.5	9.5
4	8.0	8.0	14	10.5	10.0	24	9.5	9.0
5	8.0	8.0	15	10.5	10.0	25	10.0	9.5
6	8.0	8.0	16	10.5	9.5	26	10.0	10.0
7	9.0	8.0	17	10.0	9.5	27	10.5	10.0
8	9.0	8.5	18	9.5	9.5	28	11.5	10.5
9	9.5	9.0	19	9.5	9.0	29	11.0	10.5
10	10.0	9.0	20	9.5	9.0	30	11.0	10.5
						31	---	---
						MONTH	11.5	8.0

11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°21'42", long 123°07'38", in SW¼NW¼ sec.6, T.17 N., R.11 W., Mendocino County, Hydrologic Unit 18010103 on right bank 100 ft (30 m) downstream from powerhouse of Pacific Gas and Electric Co., 1.8 mi (2.9 km) southwest of Van Arsdale Dam, and 2.9 mi (4.7 km) northwest of town of Potter Valley.

WATER-DISCHARGE RECORDS

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 (311 m), from topographic map. No gage prior to Dec. 1, 1922. Dec. 1, 1922, to Sept. 30, 1923, nonrecording gage and Oct. 1, 1923, to Apr. 12, 1950, water-stage recorder, at site 50 ft (15 m) upstream at different datum.

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.--69 years (water years 1911-79), 201 ft³/s (5.692 m³/s), 145,600 acre-ft/yr (180 hm³/yr).

EXTREMES FOR PERIOD OF RECORD (1922 TO CURRENT YEAR).--Maximum daily discharge, 348 ft³/s (9.86 m³/s) Apr. 24, 1953; no flow at times in several years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	317	294	299	.03	302	296	295	300	311	145	149	149
2	317	300	299	.11	302	295	298	289	312	145	144	150
3	321	298	299	.01	302	294	297	299	311	143	144	151
4	318	230	299	0	302	293	298	293	254	141	147	215
5	319	299	299	0	302	293	300	302	157	144	149	288
6	320	297	268	0	302	289	299	297	153	149	147	296
7	232	298	264	0	302	295	298	302	157	143	139	296
8	15	300	242	0	302	295	298	303	151	136	147	309
9	1.5	298	235	0	302	295	299	304	151	142	149	319
10	.30	303	222	77	297	294	297	304	152	150	149	318
11	.22	301	191	223	299	294	291	303	156	147	143	320
12	.29	299	202	238	304	295	292	304	152	146	143	315
13	46	297	202	245	284	296	287	303	147	146	141	310
14	301	296	212	240	301	294	282	304	144	144	140	307
15	299	301	149	302	307	296	282	304	149	143	146	307
16	301	298	.01	302	308	303	276	304	150	145	141	305
17	299	301	.01	302	307	304	280	303	151	144	145	291
18	301	298	0	302	284	303	283	305	152	147	151	187
19	299	299	0	302	302	302	273	307	152	149	144	265
20	296	302	0	302	302	302	264	309	155	148	129	311
21	304	300	0	302	301	301	258	306	148	149	54	313
22	303	295	0	302	303	301	258	312	145	148	144	311
23	306	300	0	302	303	300	285	311	143	147	152	305
24	300	298	0	302	303	296	303	311	146	148	149	303
25	300	296	0	302	303	296	282	312	144	145	152	305
26	300	299	0	302	282	297	289	311	143	147	152	307
27	296	299	0	302	282	292	305	312	149	142	149	309
28	296	299	0	302	292	296	292	313	148	149	150	308
29	296	299	0	302	---	297	294	300	144	150	155	305
30	297	299	.62	302	---	297	298	312	146	150	151	305
31	295	---	.85	302	---	295	---	305	---	147	145	---
TOTAL	7596.31	8893	3683.49	6157.15	8382	9196	8653	9444	5073	4519	4440	8480
MEAN	245	296	119	199	299	297	288	305	169	146	143	283
MAX	321	303	299	302	308	304	305	313	312	150	155	320
MIN	.22	230	0	0	282	289	258	289	143	136	54	149
AC-FT	15070	17640	7310	12210	16630	18240	17160	18730	10060	8960	8810	16820
CAL YR 1978	TOTAL	88220.80	MEAN 242	MAX 321	MIN 0	AC-FT 175000						
WTR YR 1979	TOTAL	84516.95	MEAN 232	MAX 321	MIN 0	AC-FT 167600						

11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to May 1979 (discontinued).

CHEMICAL ANALYSES: Water years 1952-66. Published as "East Fork Russian River at Potter Valley" in 1952-59.

WATER TEMPERATURES: Water years 1964 to May 1979 (discontinued).

SEDIMENT RECORDS: Water years 1964-68.

TURBIDITY: Water years 1964-71.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: September 1965 to May 1979 (discontinued).

SEDIMENT RECORDS: March 1964 to May 1968.

INSTRUMENTATION.--Temperature recorder since September 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 27.0°C July 30, 31, 1977; minimum recorded, 2.0°C Jan. 9, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 20.0°C Oct. 1-5; minimum for period recorded, 3.0°C Jan. 29.

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO MAY 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	17.5	15.0	13.5	10.0	9.0	6.0	5.0	5.5	4.0	7.5	6.0
2	20.0	17.5	15.0	13.0	9.0	8.0	5.5	5.0	5.0	3.5	7.5	6.5
3	20.0	17.5	15.0	13.0	8.5	7.5	5.5	4.5	5.5	4.0	8.0	7.0
4	20.0	17.5	15.0	13.0	9.0	7.5	7.0	5.5	6.0	4.0	9.0	7.5
5	20.0	17.5	15.0	13.5	9.0	8.0	6.5	6.0	6.0	4.5	9.0	7.5
6	19.5	17.5	14.5	13.0	8.0	6.5	6.5	5.5	6.0	5.0	9.5	7.5
7	19.5	17.0	14.5	13.0	7.5	6.5	6.0	5.5	6.0	5.0	9.5	7.5
8	19.5	17.5	14.5	12.5	8.0	7.5	6.0	5.0	7.0	5.0	10.0	7.5
9	18.5	16.5	14.5	13.0	7.5	7.0	7.0	6.0	7.0	6.0	10.5	7.5
10	18.5	16.0	13.5	12.0	7.5	7.0	7.0	6.0	7.0	6.0	10.5	8.0
11	18.5	15.5	12.0	11.0	9.5	7.5	7.5	7.0	7.0	6.0	10.5	8.5
12	19.5	15.5	12.0	10.5	9.5	8.0	7.5	7.0	7.0	6.0	10.5	8.5
13	19.5	17.5	11.5	10.5	8.0	6.5	7.0	6.0	8.0	6.5	10.5	8.0
14	19.0	16.5	11.5	10.0	7.0	6.0	6.5	5.5	7.5	6.5	9.5	8.0
15	19.0	17.0	11.0	9.0	7.0	5.5	6.5	5.0	7.0	6.0	9.5	8.5
16	19.0	17.5	11.5	11.0	7.5	6.0	6.5	6.0	7.5	5.5	9.5	8.5
17	19.0	16.5	11.5	10.0	7.5	7.0	6.0	4.5	7.0	6.0	10.5	8.0
18	19.0	16.5	11.0	10.0	8.0	7.0	6.0	5.5	7.0	5.5	10.0	8.0
19	19.0	17.0	11.0	10.5	7.5	7.0	6.0	5.0	8.0	6.5	10.0	8.5
20	18.5	17.0	11.5	11.0	7.5	6.5	6.0	5.0	8.0	6.0	9.5	8.0
21	18.5	16.5	11.0	10.5	8.0	7.0	6.0	5.0	7.5	5.5	9.5	7.5
22	18.5	16.5	10.5	10.0	7.5	7.0	6.0	4.5	7.5	6.5	9.5	7.0
23	18.0	15.5	10.5	9.5	7.5	6.5	6.0	4.5	7.5	6.0	10.0	8.0
24	18.0	16.0	10.5	9.5	7.0	6.5	6.5	5.5	8.0	6.5	10.5	7.5
25	17.5	15.5	10.0	8.5	7.0	6.5	5.5	4.5	8.0	7.0	10.5	8.0
26	17.5	15.5	9.5	8.5	6.5	6.0	5.0	4.0	7.5	6.5	10.0	8.5
27	17.5	15.5	9.5	8.5	6.0	5.5	5.0	3.5	7.5	6.0	9.5	8.5
28	17.0	15.0	10.0	9.0	6.0	5.5	5.0	3.5	7.0	6.5	10.0	8.5
29	17.0	15.0	11.0	10.0	6.0	5.0	4.5	3.0	---	---	11.0	9.0
30	15.5	14.0	11.0	10.0	6.0	5.0	4.5	4.0	---	---	11.5	8.5
31	15.5	13.5	---	---	6.5	5.0	5.5	4.5	---	---	11.0	7.5
MONTH	20.0	13.5	15.0	8.5	10.0	5.0	7.5	3.0	8.0	3.5	11.5	6.0

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°23'19", long 123°06'54", in NE¼ sec.30, T.18 N., R.11 W., Mendocino County, Hydrologic Unit 18010103, on left bank 1,000 ft (305 m) downstream from Van Arsdale Dam, and 4.6 mi (7.4 km) north of town of Potter Valley.

DRAINAGE AREA.--349 mi² (904 km²).

PERIOD OF RECORD.--November 1909 to September 1922 (combined monthly discharge only, of Eel River at this station and Snow Mountain Water and Power Co.'s tailrace near Potter Valley), October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Van Arsdale Dam, near Potter Valley.

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 (427 m), from topographic map. Nov. 18, 1909, to Mar. 3, 1927, recorder in reservoir 800 ft (244 m) upstream from Van Arsdale Dam at different datum. Oct. 1, 1927, to Feb. 28, 1937, nonrecording gage at present site and datum.

REMARKS.--Flow regulated by Lake Pillsbury (station 11470000) 11 mi (18 km) 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 dam 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).--69 years (water years 1910-79), 637 ft³/s (18.04 m³/s), 461,500 acre-ft/yr (569 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,100 ft³/s (1,820 m³/s) Dec. 22, 1964, gage height, 33.9 ft (10.33 m), from floodmarks; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,440 ft³/s (126 m³/s) Feb. 28, gage height, 12.59 ft (3.837 m); minimum daily, 0.29 ft³/s (0.008 m³/s) Nov. 22-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	.76	.78	17	3.5	3540	299	157	15	8.1	7.5	10
2	.99	1.7	.45	17	3.5	2150	262	124	9.9	6.8	7.5	11
3	1.0	2.5	.43	17	3.4	1700	191	112	10	5.3	7.5	11
4	1.0	83	.41	20	3.4	1540	182	154	9.6	4.7	7.7	11
5	.95	.79	.94	19	3.5	1480	163	268	8.6	5.2	7.8	11
6	.94	.49	1.6	19	3.5	1740	125	735	9.1	5.2	8.0	8.7
7	.85	.42	1.7	21	3.7	2050	118	1870	9.2	5.2	8.1	6.2
8	7.0	.68	1.6	45	3.1	1610	114	1320	9.2	5.2	8.1	7.2
9	16	.54	1.5	54	2.2	696	98	497	9.4	5.2	7.9	7.5
10	16	.90	1.2	66	2.4	430	63	111	9.7	5.3	8.3	7.5
11	15	.90	1.9	1180	2.5	432	67	175	9.5	5.4	11	7.3
12	15	.70	3.3	45	9.0	429	61	298	8.8	5.4	12	6.6
13	61	.76	3.4	4.4	605	544	60	287	8.0	5.6	12	6.3
14	1.7	.50	2.9	49	288	988	52	277	7.9	5.1	11	6.0
15	2.1	.47	79	104	129	982	47	232	8.0	4.9	7.9	6.3
16	1.5	.44	280	20	436	849	49	153	8.3	4.8	8.0	6.3
17	1.5	.55	274	3.4	54	681	55	100	8.5	4.8	8.5	6.4
18	.97	.48	260	3.5	750	656	41	88	8.6	5.0	7.6	5.6
19	1.0	3.6	211	3.5	280	536	44	78	8.6	5.0	7.2	20
20	3.5	6.0	34	3.5	224	283	49	72	8.3	5.0	7.2	4.8
21	5.9	.43	26	3.5	283	138	52	72	7.7	5.0	5.6	6.4
22	5.6	.29	24	3.5	283	124	58	59	7.6	5.0	7.9	6.0
23	3.9	.29	24	3.5	284	86	83	46	7.6	5.0	8.6	5.7
24	3.6	.29	24	3.5	117	85	86	31	7.6	5.0	9.4	5.5
25	9.4	.34	22	3.5	335	83	30	15	7.5	5.0	10	5.8
26	2.9	.32	20	3.5	1520	88	82	18	9.8	5.1	10	8.4
27	.46	.32	18	3.5	1490	1430	80	16	10	5.8	11	9.8
28	1.6	.33	18	3.5	2740	2940	699	17	9.5	7.5	12	9.3
29	1.2	.43	20	3.5	---	1900	673	22	8.8	9.0	11	8.3
30	.76	.51	19	3.5	---	818	621	10	8.6	9.0	9.6	8.0
31	.75	---	18	3.4	---	279	---	11	---	8.1	9.3	---
TOTAL	185.02	109.73	1393.11	1749.7	9861.7	31287	4604	7425	268.9	176.7	275.2	290.3
MEAN	5.97	3.66	44.9	56.4	352	1009	153	240	8.96	5.70	8.88	9.68
MAX	61	83	280	1180	2740	3540	699	1870	15	9.0	12	56
MIN	.46	.29	.41	3.4	2.2	83	30	10	7.5	4.7	5.6	4.8
AC-FT	367	218	2760	3470	19560	62060	9130	14730	533	350	546	576
CAL YR 1978	TOTAL	280854.51	MEAN	769	MAX	18600	MIN	.29	AC-FT	557100		
WTR YR 1979	TOTAL	57626.36	MEAN	158	MAX	3540	MIN	.29	AC-FT	114300		

EEL RIVER BASIN

11472150 EEL RIVER NEAR DOS RIOS, CA

LOCATION.--Lat 39°37'30", long 123°20'25", in SW¼SW¼ sec.32, T.21 N., R.13 W., Mendocino County, Hydrologic Unit 18010103, on left bank 1,100 ft (335 m) upstream from Outlet Creek, and 6.3 mi (10.1 km) south of Dos Rios.

DRAINAGE AREA.--528 mi² (1,368 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 1,001.28 ft (305.190 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow partly regulated by Lake Pillsbury (station 11470000) 40 mi (64 km) upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--13 years, 948 ft³/s (26.85 m³/s), 686,800 acre-ft/yr (847 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,500 ft³/s (1,850 m³/s) Jan. 16, 1974, gage height, 33.64 ft (10.253 m), from rating curve extended above 26,000 ft³/s (736 m³/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 (13.874 m) from information by local resident, discharge, 100,000 ft³/s (2,830 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,300 ft³/s (433 m³/s) Jan. 11, gage height, 14.71 ft (4.484 m); minimum daily, 2.9 ft³/s (0.082 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	3.7	11	23	53	5160	652	370	77	20	8.5	8.7
2	3.8	3.5	14	22	50	3300	594	270	76	18	8.5	8.5
3	3.8	3.8	13	22	47	2590	487	222	67	19	8.5	8.5
4	3.8	3.8	11	22	43	2160	429	233	60	18	7.9	8.9
5	3.8	3.9	10	23	41	1910	402	463	56	18	7.4	9.1
6	3.8	24	10	26	40	1950	350	1100	51	18	6.9	9.1
7	3.8	12	9.6	25	40	2180	316	2560	48	18	6.9	8.6
8	3.7	7.6	9.1	48	40	2160	284	2090	46	18	6.9	7.9
9	3.1	5.8	9.1	141	40	1150	266	1270	45	16	6.9	7.4
10	2.9	5.0	9.1	350	40	773	238	603	43	17	6.9	5.6
11	5.8	4.5	9.3	8650	46	700	219	471	41	18	6.4	5.6
12	16	4.4	9.7	1980	180	662	210	565	36	17	6.4	6.0
13	16	4.7	9.7	804	5140	619	194	555	35	15	6.9	5.6
14	37	4.8	9.7	1200	2640	943	187	513	33	13	9.7	5.5
15	33	5.1	11	1700	996	1070	182	470	32	13	10	5.0
16	12	5.2	76	777	2780	1100	185	380	32	13	11	4.9
17	7.3	5.2	235	391	791	906	229	289	32	12	10	4.4
18	5.3	5.2	232	269	2770	820	200	248	30	11	8.7	4.9
19	4.6	8.7	223	192	1400	796	174	226	30	11	8.5	5.2
20	4.3	25	151	150	1320	532	170	208	32	10	8.5	29
21	3.7	24	46	131	2080	336	170	195	30	10	8.5	18
22	3.5	23	31	115	1790	268	171	188	26	9.1	7.9	12
23	3.5	17	28	103	2100	227	272	174	25	7.9	7.4	8.1
24	3.5	13	27	91	1020	190	456	155	25	7.9	7.2	5.2
25	4.5	10	27	83	611	177	273	134	23	7.9	7.4	5.5
26	4.8	9.4	26	76	1540	173	241	109	22	7.9	7.8	6.4
27	4.6	8.7	26	69	1420	2400	352	103	21	7.4	7.6	6.4
28	4.1	8.5	25	63	4590	3590	307	98	21	6.0	7.9	6.4
29	3.8	8.2	24	60	---	2580	981	96	21	6.4	7.9	7.9
30	3.8	8.0	23	56	---	1430	1000	100	21	6.9	7.4	10
31	3.8	---	23	54	---	757	---	82	---	7.9	8.6	---
TOTAL	221.4	310.8	1378.3	1771.6	3364.8	4360.9	10191	14540	1137	398.3	247.0	244.3
MEAN	7.14	10.4	44.5	571	1202	1407	340	469	37.9	12.8	7.97	8.14
MAX	37	39	235	8650	5140	5160	1000	2560	77	20	11	29
MIN	2.9	3.5	9.1	22	40	173	170	82	21	6.0	6.4	4.4
AC-FT	439	616	2730	35140	66740	86500	20210	28840	2260	790	490	485

CAL YR 1978 TOTAL 456634.3 MEAN 1251 MAX 27600 MIN 1.7 AC-FT 905700
WTR YR 1979 TOTAL 123641.1 MEAN 339 MAX 8650 MIN 2.9 AC-FT 245200

11472200 OUTLET CREEK NEAR LONGVALE, CA

LOCATION.--Lat 39°37'05", long 123°21'20", in NE¼ sec.1, T.20 N., R.14 W., Mendocino County, Hydrologic Unit 18010103, on right bank 0.2 mi (0.3 km) downstream from Bloody Run Creek, 0.9 mi (1.4 km) upstream from mouth, and 6.9 mi (11.1 km) northeast of Longvale.

DRAINAGE AREA.--161 mi² (417 km²).

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

REVISED RECORDS.--WSP 1929: 1958(M), 1960.

GAGE.--Water-stage recorder. Datum of gage is 1,018.14 ft (310.329 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--23 years, 420 ft³/s (11.89 m³/s), 304,300 acre-ft/yr (375 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,900 ft³/s (2,210 m³/s) Dec. 22, 1964, gage height, 30.6 ft (9.35 m), from floodmarks, from rating curve extended above 17,000 ft³/s (481 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in 1959, 1967, and 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,900 ft³/s (450 m³/s) Jan. 11 (0130 hrs), gage height, 15.35 ft (4.679 m), no other peak above base of 7,000 ft³/s (198 m³/s); minimum daily, 0.56 ft³/s (0.016 m³/s) Sept. 15-17, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.8	7.9	5.0	43	2470	303	143	29	5.8	.95	1.2
2	1.7	2.0	13	5.0	39	1570	263	125	27	5.5	.95	1.4
3	1.7	2.1	12	5.2	35	1490	230	111	25	4.9	.96	1.5
4	1.7	2.2	13	6.8	33	1070	216	99	22	4.8	.83	1.3
5	1.6	2.2	10	7.1	33	728	204	480	20	5.0	.83	1.3
6	1.5	2.3	8.4	6.8	31	553	174	1010	19	4.7	.94	1.2
7	1.5	2.3	7.3	7.9	30	440	161	1270	18	4.7	.95	.98
8	1.6	2.3	6.5	86	29	367	141	890	16	4.8	.84	.98
9	1.7	2.3	6.0	220	30	311	129	587	15	4.7	.82	.98
10	1.6	2.1	5.8	3140	38	264	119	416	14	5.3	.68	.98
11	1.6	2.1	6.0	6580	77	231	129	320	13	5.4	.68	.98
12	1.6	2.4	6.5	2050	393	211	120	258	12	5.2	.59	.98
13	1.6	3.1	5.9	1020	5130	188	109	213	12	4.7	.59	.82
14	1.6	3.1	5.6	2030	2670	169	98	180	11	4.2	.62	.68
15	1.6	2.9	5.4	1610	2120	264	90	154	11	4.0	.60	.56
16	1.6	2.9	5.4	836	2930	331	112	133	11	3.8	.69	.56
17	1.6	3.0	7.1	429	1500	403	198	114	11	2.5	.82	.56
18	1.7	3.0	8.7	319	2720	308	157	99	11	2.1	.82	.82
19	1.8	7.0	8.8	230	1740	306	125	87	11	1.8	.82	.68
20	1.7	23	8.6	180	1890	238	106	77	10	1.6	.87	.56
21	1.8	18	8.3	149	2220	207	94	71	9.8	1.5	.90	.82
22	1.8	11	7.5	122	2220	186	90	67	9.7	1.5	.91	.98
23	1.9	9.2	6.9	102	2220	167	308	64	9.1	1.6	1.2	.82
24	1.8	9.1	6.4	88	1520	152	467	57	8.6	1.5	1.1	.82
25	1.8	7.8	6.1	81	1030	138	271	54	7.7	1.3	.98	.98
26	1.8	6.8	5.8	67	1300	139	268	48	7.6	1.3	.98	.98
27	1.8	6.1	5.8	59	851	1930	294	41	6.7	1.3	.97	.98
28	1.8	5.6	5.8	54	2810	1470	237	38	6.3	1.2	.87	.98
29	1.8	5.2	5.8	50	---	771	188	36	6.0	1.1	.88	1.2
30	1.7	5.1	5.4	47	---	467	161	34	5.8	1.2	.97	1.2
31	1.7	---	5.2	46	---	361	---	31	---	1.2	.98	---
TOTAL	52.5	158.0	226.9	19638.8	35682	17900	5562	7307	395.3	100.2	26.59	28.78
MEAN	1.69	5.27	7.32	634	1274	577	185	236	13.2	3.23	.86	.96
MAX	1.9	23	13	6580	5130	2470	467	1270	29	5.8	1.2	1.5
MIN	1.5	1.8	5.2	5.0	29	138	90	31	5.8	1.1	.59	.56
AC-FT	104	313	450	38950	70780	35500	11030	14490	784	199	53	57
CAL YR 1978	TOTAL	160636.71	MEAN 440	MAX 8780	MIN .28	AC-FT 318600						
WTR YR 1979	TOTAL	87078.07	MEAN 239	MAX 6580	MIN .56	AC-FT 172700						

EEL RIVER BASIN

11472500 EEL RIVER ABOVE DOS RIOS, CA

LOCATION.--Lat 39°41'20", long 123°21'30", in SW¼ sec.7, T.21 N., R.13 W., Mendocino County, Hydrologic Unit 18010103, temperature recorder at site of former gaging station on left bank, 1.8 mi (2.9 km) upstream from Middle Fork, and 2.1 mi (3.4 km) south of Dos Rios.

DRAINAGE AREA.--705 mi² (1,826 km²).

PERIOD OF RECORD.--Water years 1957 to current year.

WATER TEMPERATURES: Water years 1958-59, 1961 to current year.

SEDIMENT RECORDS: Water years 1957-65.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1957 to September 1959, October 1960 to September 1965, May 1966 to current year.

SEDIMENT RECORDS: October 1957 to September 1965.

INSTRUMENTATION.--Temperature recorder since May 1961.

REMARKS.--Difference between recorder values before adjustment and field measurement values exceeded $\pm 1.0^{\circ}\text{C}$ for water temperatures at times during the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 31.5°C June 29, 1977; minimum recorded, 1.0°C on several days in 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 28.5°C July 18-20, 23-25; minimum recorded 2.0°C Feb. 2.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	16.5	12.5	9.5	10.0	9.0	4.5	3.0	5.5	4.0		
2	19.0	15.5	12.0	9.5	9.0	7.5	4.5	3.5	4.0	2.0		
3	19.5	16.0	12.0	9.0	8.0	6.5	5.0	4.0	5.0	2.5		
4	19.0	16.5	11.5	9.5	7.5	6.5	6.5	5.0	6.0	4.0		
5	20.5	16.5	12.5	10.0	7.5	6.0	7.5	6.5	7.0	5.5		
6	19.5	17.5	12.5	10.0	6.5	5.5	7.5	7.0	8.0	6.0		
7	19.5	16.5	12.5	10.5	5.5	4.5	7.5	7.0	7.5	6.0		
8	19.0	16.0	12.0	10.0	5.5	3.5	8.0	7.5	8.0	6.5		
9	18.5	16.5	11.0	10.5	5.5	4.5	9.0	8.5	8.0	7.5		
10	19.0	15.5	10.5	8.0	6.5	5.0	9.5	9.0	8.5	8.0		
11	18.0	15.5	8.5	6.5	7.5	6.5	10.5	9.0	9.0	8.5		
12	18.5	16.0	6.5	5.5	8.5	7.5	10.0	6.5	8.5	8.0		
13	19.0	16.5	8.0	5.5	9.5	8.0	9.5	7.5	9.5	7.0		
14	18.0	16.5	8.0	5.5	9.0	7.5	9.0	7.0	9.0	6.5		
15	19.0	16.5	7.5	5.5	7.5	6.5	9.0	7.0	8.0	6.0		
16	18.0	16.5	8.0	7.0	7.5	6.0	9.5	8.0	8.5	6.0		
17	18.0	15.0	9.5	7.5	6.5	6.0	8.5	8.0	---	---		
18	18.0	15.5	9.5	7.5	6.5	5.5	8.5	8.0	---	---		
19	17.0	15.5	9.0	8.5	6.0	5.0	8.0	7.0	---	---		
20	17.0	15.0	9.5	8.5	6.0	5.0	7.5	6.0	---	---		
21	17.0	15.0	10.0	9.0	5.0	4.5	7.5	6.0	---	---		
22	16.5	14.0	9.5	8.0	5.5	4.5	7.5	6.5	---	---		
23	16.0	13.5	9.5	8.0	6.0	5.0	7.5	6.5	---	---		
24	16.0	13.5	9.0	7.5	6.5	5.5	7.0	6.0	---	---		
25	16.0	13.5	8.0	7.0	6.0	5.5	6.0	5.5	---	---		
26	16.0	13.0	7.5	6.5	6.5	5.5	5.5	4.5	---	---		
27	15.5	13.0	7.5	6.5	7.0	6.0	5.5	4.5	---	---		
28	15.0	12.5	8.5	7.0	7.5	6.0	5.5	3.5	---	---		
29	14.0	11.5	9.5	8.5	6.0	4.5	5.5	4.0	---	---		
30	12.5	10.0	10.0	9.0	4.5	3.5	5.0	4.5	---	---		
31	12.0	9.5	---	---	4.5	2.5	5.5	4.0	---	---		
MONTH	20.5	9.5	12.5	5.5	10.0	2.5	10.5	3.0	9.5	2.0		

EEL RIVER BASIN

11473000 MIDDLE FORK EEL RIVER BELOW BLACK BUTTE RIVER, NEAR COVELO, CA

LOCATION.--Lat 39°49'35", long 123°05'30", in NW¼ sec.28, T.23 N., R.11 W., Mendocino County, Hydrologic Unit 18010104, temperature recorder at site of former gaging station, 0.2 mi (0.3 km) downstream from Black Butte River, and 8.6 mi (13.8 km) east of Covelo.

DRAINAGE AREA.--367 mi² (951 km²).

PERIOD OF RECORD.--Water year 1961 to May 1979 (discontinued).

CHEMICAL ANALYSES: Water years 1965-66.

WATER TEMPERATURES: Water year 1961 to May 1979 (discontinued).

SEDIMENT RECORDS: Water years 1963-67.

TURBIDITY: Water years 1965-67.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July to November 1961, October 1962 to May 1979.

SEDIMENT RECORDS: October 1962 to September 1967.

INSTRUMENTATION.--Temperature recorder since October 1967.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 29.5°C July 15, 1972; minimum recorded, 0.5°C Dec. 14, 1972, Dec. 31, 1978, Jan. 1, 1979.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 23.5°C Oct. 13, 14; minimum for period recorded, 0.5°C Dec. 31, Jan. 1.

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO MAY 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	4.0	.5	3.0	1.0	6.0	3.0
2	---	---	---	---	---	---	4.0	2.0	4.0	1.0	5.0	3.5
3	---	---	---	---	---	---	4.0	2.5	4.0	1.0	6.0	4.0
4	---	---	---	---	---	---	6.0	3.5	4.0	1.5	7.0	4.0
5	23.0	17.0	---	---	---	---	6.5	3.5	6.0	2.0	8.0	5.0
6	22.5	14.5	---	---	---	---	5.5	3.5	6.0	3.5	8.0	5.0
7	22.5	18.0	---	---	---	---	6.0	4.5	6.0	4.0	8.0	5.0
8	23.0	18.0	---	---	---	---	7.0	5.5	6.5	4.5	8.0	5.0
9	22.5	17.0	---	---	---	---	7.5	6.5	7.0	5.0	8.0	5.0
10	22.5	17.5	---	---	---	---	7.5	5.0	7.5	6.0	8.5	6.0
11	22.5	17.5	---	---	---	---	7.5	6.5	7.5	6.0	9.0	5.5
12	22.5	17.5	---	---	---	---	7.5	4.5	6.5	5.5	8.0	5.0
13	23.5	17.5	---	---	---	---	5.5	4.5	6.5	5.5	8.0	6.0
14	23.5	17.0	---	---	7.0	4.5	5.5	4.0	6.5	5.0	7.5	6.0
15	21.5	16.5	---	---	7.5	4.0	5.0	3.5	5.5	4.5	7.5	6.0
16	22.0	16.5	---	---	6.5	3.5	5.0	3.5	4.5	3.5	7.0	4.5
17	20.0	17.0	---	---	5.5	3.5	4.0	3.0	5.0	3.5	6.0	4.0
18	21.0	16.0	---	---	6.0	4.0	4.5	3.5	5.0	4.0	6.5	5.0
19	---	---	---	---	5.0	3.0	5.0	3.0	6.5	3.5	7.0	4.0
20	---	---	---	---	5.0	2.0	5.5	3.0	5.5	4.5	7.0	4.0
21	---	---	---	---	5.0	2.0	5.5	3.5	6.0	3.5	8.0	4.0
22	---	---	13.0	7.5	5.0	2.0	5.0	3.0	4.5	3.5	7.5	5.5
23	---	---	15.0	7.5	5.0	3.0	5.0	3.0	5.5	3.5	9.0	5.0
24	---	---	13.0	8.0	5.0	3.0	5.0	2.0	6.5	3.5	9.0	5.0
25	---	---	14.5	7.5	5.0	2.5	4.5	1.5	6.5	5.5	9.0	6.0
26	---	---	15.5	7.0	5.0	2.5	4.0	1.5	7.0	5.5	7.0	6.0
27	---	---	15.0	6.0	6.0	4.0	4.0	1.5	6.5	4.5	6.5	4.0
28	---	---	15.0	7.0	5.5	2.0	4.0	1.5	6.5	4.5	7.0	4.0
29	---	---	11.0	6.0	5.0	1.5	3.0	1.0	---	---	7.5	4.5
30	---	---	---	---	4.5	1.0	2.0	1.5	---	---	8.0	5.0
31	---	---	---	---	4.0	.5	4.0	1.5	---	---	8.0	5.0
MONTH	23.5	14.5	15.5	6.0	7.5	.5	7.5	.5	7.5	1.0	9.0	3.0

EEL RIVER BASIN

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA

LOCATION.--Lat 39°42'23", long 123°19'27", in NE¼SE¼ sec.5, T.21 N., R.13 W., Mendocino County, Hydrologic Unit 18010104, on right bank 0.6 mi (1.0 km) upstream from Eastman Creek, 1.7 mi (2.7 km) southeast of Dos Rios, and 1.9 mi (3.1 km) upstream from mouth.

DRAINAGE AREA.--745 mi² (1,930 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 901.58 ft (274.802 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--14 years, 1,645 ft³/s (46.59 m³/s), 1,192,000 acre-ft/yr (1.47 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,500 ft³/s (2,560 m³/s) Jan. 23, 1970, gage height, 27.15 ft (8.275 m); minimum daily, 3.3 ft³/s (0.093 m³/s) Aug. 21-23, Sept. 12-14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,100 ft³/s (711 m³/s) Jan. 11, gage height, 17.79 ft (5.422 m), no peak above base of 35,000 ft³/s (991 m³/s); minimum daily, 7.8 ft³/s (0.22 m³/s) Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	13	98	41	220	4980	1780	1450	391	74	24	18
2	21	13	136	42	200	2850	1660	1390	360	71	23	19
3	20	14	88	42	190	2930	1590	1360	335	70	21	17
4	18	14	73	42	186	3350	1550	1360	311	69	20	18
5	17	14	64	49	190	3330	1650	1950	288	67	19	18
6	16	15	68	52	192	4210	1730	3130	267	65	18	17
7	16	14	64	54	211	4960	1600	3760	247	64	18	16
8	16	14	58	77	210	4680	1540	3340	225	62	17	15
9	15	14	52	270	210	4230	1510	2700	202	60	17	14
10	15	15	52	838	254	3900	1390	2450	187	62	17	13
11	15	15	52	14300	555	3900	1420	2320	174	64	16	13
12	15	15	54	3830	691	3720	1430	2210	164	61	15	12
13	15	15	63	1830	12800	3310	1420	2060	155	57	15	11
14	15	16	66	2280	9230	3020	1410	1990	148	54	15	10
15	14	16	59	2500	3930	3220	1370	1920	141	50	15	9.6
16	14	17	54	1800	5180	3260	1410	1740	138	47	15	9.3
17	14	17	54	1400	2920	2780	1570	1590	136	44	15	8.8
18	14	17	61	1100	5810	2430	1360	1500	134	42	15	8.6
19	14	21	58	860	3820	2350	1200	1410	131	40	15	8.6
20	14	42	54	720	4190	2140	1090	1290	125	36	15	8.3
21	14	108	49	600	4810	1950	1020	1180	120	35	14	8.1
22	14	88	47	493	4100	1790	1020	1070	114	34	14	8.1
23	14	75	47	477	4060	1620	1220	926	108	32	15	8.1
24	14	70	47	380	3060	1520	1680	821	99	32	15	7.8
25	14	63	47	307	2650	1530	1400	740	92	31	15	7.9
26	14	59	47	263	3540	1580	1560	682	88	30	14	8.4
27	14	58	47	275	2870	4070	2680	626	83	29	14	8.7
28	13	56	47	250	6540	3990	2030	569	78	27	13	9.1
29	13	54	47	217	---	2730	1740	517	75	26	13	9.5
30	14	68	44	244	---	2250	1550	467	75	25	13	9.2
31	13	---	42	242	---	1970	---	424	---	24	14	---
TOTAL	471	1030	1839	35875	82819	94550	45580	48942	5191	1484	499	349.1
MEAN	15.2	34.3	59.3	1157	2958	3050	1519	1579	173	47.9	16.1	11.6
MAX	22	108	136	14300	12800	4980	2680	3760	391	74	24	19
MIN	13	13	42	41	186	1520	1020	424	75	24	13	7.8
AC-FT	934	2040	3650	71160	164300	187500	90410	97080	10300	2940	990	692
CAL YR 1978 TOTAL	604048.0		MEAN	1655	MAX	22300	MIN	13	AC-FT	1198000		
WTR YR 1979 TOTAL	318629.1		MEAN	873	MAX	14300	MIN	7.8	AC-FT	632000		

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956 to current year.

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 current year.

SEDIMENT RECORDS: Water years 1956-76.

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 current year.

SEDIMENT RECORDS: October 1965 to September 1976.

INSTRUMENTATION: Temperature recorder since March 1970.

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, 28.0°C July 31, Aug. 2; minimum recorded, 2.0°C Dec. 31 to Jan. 2, Jan. 29, Feb. 2, 3.

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.0	20.5	11.5	10.0	11.0	9.0	2.0	2.0	3.5	2.5	8.0	6.0
2	23.0	20.5	12.0	10.0	9.0	8.0	3.0	2.0	3.5	2.0	7.5	6.5
3	23.0	20.5	11.0	10.0	8.0	6.5	4.0	3.0	4.0	2.0	8.5	7.5
4	23.0	20.5	11.5	10.0	8.5	6.5	5.5	4.0	5.0	2.5	10.0	8.0
5	22.5	19.5	12.0	11.0	8.5	6.5	6.0	5.0	6.0	3.5	10.5	8.5
6	20.5	18.5	12.0	10.5	6.5	4.5	6.0	5.0	6.5	4.5	10.5	8.0
7	20.0	17.0	11.5	10.5	5.0	3.5	6.0	5.0	7.0	5.0	10.5	8.0
8	18.5	16.5	11.5	10.0	5.0	3.0	7.0	5.5	7.5	5.5	10.0	8.0
9	18.5	16.0	11.5	10.0	6.0	5.0	8.0	6.5	8.5	7.0	10.0	8.0
10	18.0	16.0	10.0	7.0	7.0	5.5	8.0	7.5	9.0	8.0	10.5	8.5
11	17.5	15.5	7.5	6.5	8.5	7.0	8.5	8.0	9.0	8.5	10.5	9.0
12	18.0	15.5	7.0	6.5	9.0	8.0	8.5	7.5	8.5	8.0	10.5	8.5
13	18.0	16.0	8.0	7.0	8.5	8.0	7.5	6.5	8.0	7.5	11.0	8.5
14	18.0	16.0	7.5	6.0	7.5	6.5	6.5	6.0	8.0	7.0	10.0	9.0
15	18.5	16.5	6.5	5.5	7.0	5.0	7.0	6.0	7.0	6.0	10.0	8.5
16	18.5	17.0	8.5	7.0	5.5	4.0	6.5	6.0	7.5	6.0	8.5	8.0
17	17.5	15.5	8.5	8.0	6.0	5.0	5.5	5.0	7.0	5.5	9.5	7.5
18	18.0	16.0	8.5	7.0	6.0	5.5	6.0	5.0	7.5	6.5	9.0	8.0
19	17.0	16.0	9.0	8.0	5.0	4.5	6.5	5.5	8.0	6.5	10.0	7.5
20	17.5	16.0	10.5	9.0	4.5	3.5	6.0	4.5	8.0	7.0	10.5	7.5
21	17.5	16.0	10.5	9.5	4.0	3.0	6.5	5.5	8.0	6.0	10.5	7.5
22	16.5	15.0	10.5	9.0	4.0	3.0	6.0	5.0	8.0	7.0	10.0	9.0
23	15.5	13.5	9.5	7.5	4.0	3.0	6.0	4.5	8.0	6.0	11.0	8.0
24	15.5	14.0	9.0	7.5	4.0	3.5	6.0	5.0	8.5	6.5	12.0	9.0
25	15.5	14.0	8.5	7.0	4.0	3.5	5.0	4.0	8.5	7.5	12.0	9.5
26	15.5	14.0	8.0	6.5	4.0	3.5	4.5	3.0	9.0	7.5	10.5	9.5
27	15.0	13.5	7.5	6.5	4.5	3.5	4.5	3.0	9.0	7.0	10.0	9.0
28	15.0	13.0	8.5	7.5	4.5	4.0	4.0	3.0	9.0	7.5	10.0	7.5
29	13.5	11.5	10.0	8.5	4.0	3.0	4.0	2.0	---	---	11.0	8.0
30	12.0	10.5	11.0	9.5	3.0	2.5	3.5	3.5	---	---	11.5	8.5
31	12.0	10.0	---	---	2.5	2.0	4.5	3.0	---	---	11.5	8.0
MONTH	23.0	10.0	12.0	5.5	11.0	2.0	8.5	2.0	9.0	2.0	12.0	6.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	8.5	14.0	11.5	---	---	25.0	21.5	27.5	25.0	23.5	22.0
2	12.0	8.5	16.0	11.5	---	---	25.5	21.5	28.0	25.5	25.0	22.5
3	12.0	9.0	16.5	12.5	---	---	24.5	21.0	27.5	24.5	25.0	22.0
4	13.5	9.5	14.5	12.5	---	---	24.0	21.5	26.5	24.0	24.0	21.0
5	12.5	10.5	13.5	11.0	---	---	24.0	20.5	26.5	23.5	24.5	21.5
6	13.0	10.5	11.0	9.5	---	---	24.0	21.0	27.5	24.0	25.5	22.0
7	13.5	9.5	10.0	8.5	---	---	24.0	21.0	27.0	24.5	25.5	22.0
8	13.0	10.5	10.5	8.0	---	---	24.5	21.5	27.0	24.0	25.0	22.5
9	12.5	10.5	12.5	8.0	---	---	23.5	21.5	27.0	24.0	24.0	21.0
10	10.5	8.5	13.5	9.5	---	---	25.5	22.0	27.0	24.5	24.5	20.5
11	13.0	9.5	15.0	11.0	---	---	25.0	22.0	27.0	24.5	24.0	21.0
12	13.0	9.5	16.0	12.0	---	---	26.5	22.5	26.0	23.5	23.5	20.5
13	14.5	11.0	17.0	13.0	---	---	26.0	23.0	25.5	23.5	23.5	20.5
14	14.0	10.5	17.5	13.5	---	---	26.0	23.5	25.5	22.5	23.5	20.5
15	14.0	10.5	17.5	14.0	---	---	26.5	24.0	26.0	23.0	24.0	20.5
16	13.5	11.5	18.0	14.0	---	---	26.5	24.0	26.0	23.0	23.5	21.0
17	11.5	10.0	18.5	14.0	---	---	27.0	24.0	26.5	23.5	23.5	20.5
18	11.5	8.5	19.0	14.5	---	---	27.0	24.5	26.5	24.0	22.5	19.5
19	12.5	8.0	19.5	15.5	---	---	27.0	25.5	26.0	24.0	21.0	19.0
20	13.5	9.0	20.0	16.0	---	---	26.0	26.0	25.0	22.5	22.0	19.0
21	14.0	10.0	19.5	16.5	---	---	27.5	25.0	25.5	22.0	22.0	19.0
22	13.5	11.0	18.5	16.0	---	---	27.0	25.0	25.0	22.5	21.5	18.5
23	12.0	10.5	19.5	15.5	---	---	27.5	25.5	25.5	23.0	21.0	18.5
24	13.5	9.5	18.0	15.5	---	---	27.5	23.5	26.0	23.0	21.5	18.5
25	13.0	10.5	---	---	---	---	27.5	23.0	26.5	22.5	20.5	18.5
26	13.0	11.5	---	---	---	---	27.5	23.0	26.0	23.0	20.0	18.0
27	12.0	10.0	---	---	---	---	26.5	24.0	26.0	23.0	20.5	18.0
28	14.0	10.5	---	---	25.0	23.0	26.5	23.5	25.0	23.0	20.5	18.0
29	13.5	10.5	---	---	24.0	21.5	26.5	24.0	24.5	22.0	19.5	18.0
30	14.5	11.0	---	---	24.0	21.0	27.0	24.5	25.0	22.5	20.5	18.0
31	---	---	---	---	---	---	28.0	25.5	25.0	22.0	---	---
MONTH	14.5	8.0	20.0	8.0	25.0	21.0	28.0	20.5	28.0	22.0	25.5	18.0

11475000 EEL RIVER AT FORT SEWARD, CA

LOCATION.--Lat 40°13'05", long 123°37'54", in SE¼NE¼ sec.8, T.3 S., R.5 E., Humboldt County, Hydrologic Unit 18010105, on right bank at downstream side of bridge, 1.0 mi (1.6 km) southeast of Fort Seward, 1.9 mi (3.1 km) upstream from Dobbys Creek, and 11.8 mi (19.0 km) northeast of Garberville.

DRAINAGE AREA.--2,107 mi² (5,457 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1955 to current year. Prior to October 1965, published as "at Alderpoint."

GAGE.--Water-stage recorder. Datum of gage is 217.26 ft (66.221 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 22, 1964, at site 7.5 mi (12.1 km) upstream at datum 46.55 ft (14.188 m) higher. Feb. 2 to Sept. 30, 1965, at site 7.7 mi (12.4 km) upstream at datum 49.42 ft (15.063 m) higher.

REMARKS.--Records good. Flow slightly regulated by Lake Pillsbury (station 11470000) 99 mi (159 km) upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--24 years, 4,629 ft³/s (131.1 m³/s), 3,354,000 acre-ft/yr (4.14 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 561,000 ft³/s (15,900 m³/s) Dec. 22, 1964, gage height, 87.2 ft (26.58 m), from floodmarks, site and datum then in use, from rating curve extended above 110,000 ft³/s (3,120 m³/s) on basis of slope-area measurement at gage height 72.5 ft (22.10 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Sept. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 41,000 ft³/s (1,160 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 11	unknown	*63500	1800	27.96	8.522
Feb. 13	2115	41800	1180	23.42	7.138

Minimum daily discharge, 20 ft³/s (0.57 m³/s) Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	39	141	116	531	24300	4460	3420	790	167	44	33
2	61	39	216	111	507	14500	4040	2710	730	162	43	38
3	61	44	305	108	457	12800	3680	2520	683	160	40	42
4	59	52	261	110	429	12600	3330	2400	633	157	40	50
5	57	62	200	115	416	11000	3210	3460	593	154	40	52
6	55	86	167	120	413	10800	3230	7440	556	150	40	48
7	53	104	149	135	411	11200	3090	11900	528	147	39	47
8	52	80	149	297	411	10700	2750	11500	493	144	37	47
9	51	63	139	1760	411	9230	2630	8310	467	141	36	45
10	50	49	129	2580	413	7770	2540	6410	438	139	34	42
11	50	45	124	35000	506	7170	2510	5220	406	139	34	38
12	48	44	124	15000	1000	6750	2590	4710	383	137	32	37
13	48	43	124	6000	24600	6140	2410	4370	360	137	31	36
14	48	43	124	7800	29400	5670	2360	4000	345	133	31	33
15	53	44	133	4750	13600	5940	2280	3710	335	126	31	31
16	57	45	133	3650	17000	6900	2290	3380	328	120	31	30
17	80	46	139	3000	11700	6270	2950	2970	328	113	31	29
18	78	49	280	2450	18000	5320	2820	2640	324	105	32	27
19	62	78	363	2050	11000	5260	2340	2460	324	98	34	26
20	55	125	350	1680	12500	4630	2100	2290	314	90	34	23
21	52	200	321	1460	18400	4000	1970	2110	300	85	35	21
22	50	233	214	1300	15300	3420	1900	1960	286	81	35	20
23	50	220	160	1170	16300	3100	2430	1810	267	74	35	21
24	48	174	144	1060	12300	2780	4800	1630	261	67	34	34
25	48	144	141	982	9360	2630	3690	1480	248	62	32	34
26	47	129	138	856	11400	2650	3120	1370	233	59	32	31
27	43	117	136	757	10200	8860	4590	1230	215	57	32	28
28	43	110	135	678	16600	15100	4140	1140	199	53	32	25
29	43	108	130	655	---	9880	3940	1040	185	51	32	24
30	43	103	126	565	---	7070	3650	946	174	49	32	23
31	39	---	121	537	---	5460	---	870	---	47	32	---
TOTAL	1647	2718	5516	96852	253565	249900	91840	111406	11726	3404	1077	1015
MEAN	53.1	90.6	178	3124	9056	8061	3061	3594	391	110	34.7	33.8
MAX	80	233	363	35000	29400	24300	4800	11900	790	167	44	52
MIN	39	39	121	108	411	2630	1900	870	174	47	31	20
AC-FT	3270	5390	10940	192100	502900	495700	182200	221000	23260	6750	2140	2010
CAL YR 1978	TOTAL	2012811	MEAN	5515	MAX	99000	MIN	36	AC-FT	3992000		
WTR YR 1979	TOTAL	830666	MEAN	2276	MAX	35000	MIN	20	AC-FT	1648000		

11475000 EEL RIVER AT FORT SEWARD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1961 to May 1979 (discontinued).

CHEMICAL ANALYSES: Water years 1972-75, 1977.

WATER TEMPERATURES: Water year 1961 to May 1979 (discontinued).

SEDIMENT RECORDS: Water years 1966-76.

TURBIDITY: Water years 1966-68, 1971-73.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1960 to May 1979.

SEDIMENT RECORDS: October 1965 to September 1976.

INSTRUMENTATION.--Temperature recorder since November 1960.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 34.5°C June 25, 1968; minimum recorded, 0.0°C Dec. 14-17, 1967.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 24.0°C May 21; minimum for period recorded, 3.5°C Dec. 31, Jan. 1.

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO MAY 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.0	19.5	15.5	12.5	12.5	11.0	5.0	3.5	6.0	5.0	8.5	7.5
2	23.0	19.0	15.5	12.5	12.0	10.0	4.5	4.0	6.5	5.5	8.5	7.5
3	22.0	19.0	15.5	13.0	11.5	10.0	5.5	4.5	6.5	5.5	8.5	7.5
4	22.0	19.0	16.0	13.5	10.5	9.5	5.5	5.0	7.0	5.5	9.5	8.5
5	22.0	19.0	17.0	14.0	9.5	8.0	7.5	5.5	8.0	6.5	10.5	9.5
6	20.5	19.0	17.0	13.5	9.5	8.0	7.5	6.5	8.5	7.5	11.5	10.5
7	21.0	17.5	17.0	14.0	9.0	7.5	7.0	6.5	9.5	8.5	12.0	10.5
8	20.5	17.0	16.0	13.5	8.5	7.0	7.5	6.5	9.5	9.0	12.0	10.5
9	21.5	18.5	16.0	13.0	8.0	6.5	8.0	7.5	9.0	9.0	12.5	11.5
10	21.5	19.5	13.5	11.0	8.0	6.5	8.5	7.5	9.5	9.0	12.5	10.0
11	22.5	19.5	12.0	10.5	8.5	6.0	9.0	8.5	9.5	9.0	12.5	11.5
12	22.5	19.0	11.0	10.0	9.0	6.0	8.5	8.0	9.5	9.0	13.0	11.0
13	22.0	18.5	11.0	10.0	9.0	8.5	8.5	7.5	9.0	8.0	13.0	11.0
14	21.0	19.0	11.0	9.5	9.0	7.5	7.5	6.5	8.0	7.5	12.0	11.0
15	21.0	19.0	10.5	9.5	9.0	7.0	7.5	7.0	7.5	7.0	12.0	11.0
16	21.0	18.0	11.0	10.0	9.0	8.0	7.5	7.0	8.0	7.0	11.5	9.0
17	21.5	19.0	13.0	10.0	8.0	7.0	7.0	6.5	8.0	7.0	10.0	8.5
18	22.0	19.0	14.0	11.5	7.0	6.0	7.0	6.0	8.0	7.0	10.0	9.5
19	20.0	18.0	14.0	12.0	6.5	5.5	7.0	6.0	8.0	7.5	10.5	9.0
20	19.0	17.5	13.0	12.0	6.0	5.5	7.0	6.0	8.0	7.5	11.0	9.5
21	19.5	17.0	13.0	12.0	6.0	5.0	7.0	7.0	8.0	7.0	11.0	9.5
22	19.5	16.5	12.0	11.5	6.5	5.0	8.0	7.0	8.0	8.0	11.0	10.0
23	19.5	16.5	11.5	11.0	6.5	5.5	7.5	6.5	8.0	7.0	12.5	10.0
24	20.0	16.5	12.0	10.5	7.0	5.5	7.0	6.0	8.0	7.0	13.0	10.0
25	20.0	17.5	12.0	10.5	7.5	6.0	7.0	6.0	8.5	8.0	13.0	10.5
26	19.5	17.0	11.0	10.0	7.0	6.0	7.0	6.0	9.0	8.0	12.0	11.0
27	20.0	16.0	11.0	9.5	7.5	6.0	6.5	6.0	9.0	8.0	11.0	10.0
28	18.0	16.0	11.0	9.5	7.5	6.5	6.5	6.0	9.5	8.5	10.0	9.0
29	17.0	15.0	11.0	11.0	7.5	5.5	6.0	5.0	---	---	10.5	9.0
30	16.0	14.0	12.0	11.0	6.5	4.5	5.5	5.0	---	---	11.0	9.0
31	16.0	14.0	---	---	5.5	3.5	6.0	5.0	---	---	11.0	9.0
MONTH	23.0	14.0	17.0	9.5	12.5	3.5	9.0	3.5	9.5	5.0	13.0	7.5

EEL RIVER BASIN

11475560 ELDER CREEK NEAR BRANSCOMB, CA
(Hydrologic bench-mark station)

LOCATION.--Lat 39°43'47", long 123°38'34", in NW¼NE¼ sec.29, T.22 N., R.16 W., Mendocino County, Hydrologic Unit 18010106, on right bank 0.2 mi (0.3 km) upstream from mouth, and 5.3 mi (8.5 km) north of Branscomb.
Rain gage No. 1: Lat 39°43'50", long 123°38'07", in NW¼NW¼ sec.28, T.22 N., R.16 W., altitude, 1,440 ft (439 m) at site 0.5 mi (0.8 km) east of gaging station.

DRAINAGE AREA.--6.50 mi² (16.84 km²).

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 (424.001 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. No regulation; small diversion above station for domestic use.

AVERAGE DISCHARGE.--12 years, 26.7 ft³/s (0.756 m³/s), 19,340 acre-ft/yr (23.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft³/s (64.6 m³/s) Mar. 29, 1974, gage height, 9.77 ft (2.978 m), from rating curve extended above 660 ft³/s (18.7 m³/s) on basis of slope-area measurements at gage heights 9.40 ft (2.865 m) and 11.41 ft (3.478 m); minimum daily, 0.39 ft³/s (0.011 m³/s) Aug. 13-23, Sept. 7-15, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 11.41 ft (3.478 m), from floodmarks, discharge, 3,660 ft³/s (104 m³/s) by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 254 ft³/s (7.19 m³/s) Jan. 11, gage height, 5.62 ft (1.713 m), no peak above base of 400 ft³/s (11 m³/s); minimum daily, 0.79 ft³/s (0.022 m³/s) Nov. 10-13, Sept. 17-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.87	2.7	1.1	5.7	122	33	21	7.1	2.9	1.6	1.6
2	1.1	.87	2.4	1.1	5.4	101	30	20	6.6	2.8	1.5	2.1
3	1.1	.87	1.9	1.1	5.1	86	27	19	6.3	2.7	1.5	1.8
4	1.1	.87	1.6	1.3	4.9	78	24	17	5.9	2.7	1.5	1.5
5	1.0	.87	1.6	1.3	4.6	69	23	33	5.7	2.7	1.5	1.4
6	1.0	.87	1.5	1.3	4.5	62	22	47	5.7	2.8	1.5	1.3
7	1.0	.87	1.4	1.2	4.3	55	20	72	5.5	2.7	1.4	1.2
8	1.0	.87	1.4	3.5	4.2	49	19	65	5.3	2.6	1.3	1.1
9	1.0	.85	1.4	11	4.1	42	17	55	5.0	2.7	1.3	1.1
10	1.0	.79	1.4	31	4.5	37	17	46	4.7	3.1	1.3	1.1
11	1.0	.79	1.4	171	5.0	33	16	40	4.5	2.8	1.2	1.1
12	1.0	.79	1.4	71	10	29	16	35	4.5	2.7	1.2	1.0
13	1.0	.79	1.4	42	127	26	15	30	4.3	2.5	1.2	.95
14	1.0	.81	1.4	52	101	24	14	27	4.4	2.4	1.2	.94
15	.95	.87	1.4	55	81	28	13	24	3.9	2.3	1.3	.87
16	.95	.87	1.4	41	113	27	16	22	3.9	2.2	1.3	.87
17	.95	.87	1.8	31	86	26	19	20	3.9	2.2	1.3	.79
18	.95	.87	1.8	24	149	25	18	18	3.9	2.1	1.3	.79
19	.95	2.5	1.6	20	129	25	17	17	3.9	2.0	1.3	.79
20	.95	3.2	1.4	17	103	24	16	15	3.7	1.9	1.3	.79
21	.95	2.4	1.4	15	113	23	15	14	3.6	1.8	1.3	.79
22	.95	1.9	1.4	13	129	22	15	13	3.6	1.8	1.3	.79
23	.95	1.4	1.4	12	130	20	24	12	3.6	1.9	1.3	.79
24	.95	1.3	1.3	11	105	20	34	11	3.4	1.9	1.3	.79
25	.90	1.2	1.3	9.5	85	19	31	10	3.3	1.8	1.3	.79
26	.87	1.1	1.3	8.5	81	18	30	9.7	3.1	1.7	1.3	.79
27	.87	1.1	1.3	7.8	74	51	28	9.2	3.1	1.7	1.2	.79
28	.87	1.1	1.2	7.3	113	64	26	9.1	2.9	1.7	1.2	.79
29	.87	1.1	1.2	6.7	---	51	24	8.5	2.9	1.6	1.2	.79
30	.87	1.2	1.2	6.3	---	43	23	8.0	2.9	1.6	1.2	.79
31	.87	---	1.2	5.9	---	37	---	7.6	---	1.5	1.2	---
TOTAL	30.02	34.76	46.5	680.9	1781.3	1336	642	755.1	131.1	69.8	40.8	30.99
MEAN	.97	1.16	1.50	22.0	63.6	43.1	21.4	24.4	4.37	2.25	1.32	1.03
MAX	1.1	3.2	2.7	171	149	122	34	72	7.1	3.1	1.6	2.1
MIN	.87	.79	1.2	1.1	4.1	18	13	7.6	2.9	1.5	1.2	.79
AC-FT	60	69	92	1350	3530	2650	1270	1500	260	138	81	61
(+)	0	4.23	1.36	16.81	17.71	6.35	4.68	5.12	0	0.37	0	0.81
CAL YR 1978 TOTAL	9943.58		MEAN 27.2	MAX 553	MIN .79	AC-FT 19720						
WTR YR 1979 TOTAL	5579.27		MEAN 15.3	MAX 171	MIN .79	AC-FT 11070						

† 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 to September 1979 (discontinued).
 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.

INSTRUMENTATION.--Temperature recorder since October 1967.

REMARKS.--Chemical-quality samples collected 0.2 mi (0.3 km) downstream from gaging station. 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, 21.5°C July 31, Aug. 2, 1977; minimum recorded, 2.0°C on several days in 1976-79.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum recorded, 12.0°C Oct. 4; minimum recorded, 2.0°C Dec. 30 to Jan. 3.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	COLI-FORM, TOTAL, IMMEDIATE (COLS. PER 100 ML)	COLI-FORM, FECAL, UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CaCO3)
OCT										
04...	1330	1.2	128	7.9	12.0	10.0	300	--	K8	56
26...	1140	.85	120	8.0	9.0	10.7	K19	33	K7	55
NOV										
29...	1350	1.1	127	8.1	7.0	11.2	K11	40	K19	54
DEC										
18...	1355	1.7	128	8.2	4.0	12.2	27	19	K1	50
JAN										
23...	1130	12	112	8.1	6.0	--	K98	K2	K2	44
FEB										
13...	1415	150	72	7.5	9.0	11.0	K16	24	28	29
MAR										
15...	1130	32	87	8.1	9.0	10.9	35	22	50	41
APR										
19...	1100	15	108	--	7.0	11.4	49	<1	<1	42
MAY										
23...	1215	15	104	8.0	13.0	10.3	K1	K3	K1	46
JUN										
27...	1200	4.0	118	8.0	15.0	9.5	--	K4	16	47
JUL										
25...	1030	1.1	133	7.9	16.0	9.2	K3	K2	40	50
AUG										
22...	1100	.92	130	8.0	13.0	10.0	66	18	83	50
SEP										
18...	1310	.80	125	7.9	15.0	9.4	23	13	66	58

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)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY AS CaCO3	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
04...	0	15	4.5	7.7	23	.4	.7	61	3.5
26...	0	15	4.2	8.0	24	.5	.6	63	4.2
NOV									
29...	0	14	4.6	8.1	24	.5	.6	62	1.1
DEC									
18...	0	13	4.3	7.1	23	.4	.6	53	5.1
JAN									
23...	0	12	3.3	6.6	25	.4	.5	45	11
FEB									
13...	1	7.8	2.3	4.4	24	.4	.5	28	4.4
MAR									
15...	3	11	3.2	5.4	22	.4	.5	38	2.7
APR									
19...	3	11	3.6	5.8	23	.4	.5	39	3.7
MAY									
23...	0	12	3.8	5.8	21	.4	.8	46	3.9
JUN									
27...	0	12	4.1	7.4	25	.5	.7	48	6.9
JUL									
25...	0	13	4.3	7.7	25	.5	.8	56	11
AUG									
22...	0	13	4.2	7.6	25	.5	.7	60	7.0
SEP									
18...	0	15	4.9	8.8	33	.5	1.4	61	6.0

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

EEL RIVER BASIN

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, 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)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT 04...	3.0	.1	14	80	85	.11	.26	.02	.03
26...	2.9	.1	14	79	87	.11	.18	.01	.03
NOV 29...	3.2	.1	14	87	83	.12	.26	.02	.02
DEC 18...	3.1	.1	13	82	78	.11	.38	.00	.03
JAN 23...	2.9	.1	14	68	77	.09	2.20	.01	.02
FEB 13...	1.8	.1	12	42	50	.06	17.0	.00	.05
MAR 15...	2.4	.1	14	52	62	.07	4.49	.22	.02
APR 19...	2.2	.1	13	68	63	.09	2.90	.01	.02
MAY 23...	2.3	.2	14	68	70	.09	2.75	.03	.02
JUN 27...	2.6	.1	16	76	79	.10	.82	.04	.02
JUL 25...	2.8	.1	16	77	89	.10	.23	.03	.04
AUG 22...	2.6	.1	15	87	86	.12	.22	.02	.07
SEP 18...	2.4	--	17	86	93	.12	.19	.04	.05

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
OCT 04...	1330	0	0	1	0	4	40
MAR 15...	1130	0	0	1	0	31	100
SEP 18...	1310	4	200	0	0	3	10

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
OCT 04...	36	0	.0	0	0	10
MAR 15...	21	0	.1	0	0	30
SEP 18...	0	0	.1	0	0	0

DATE	TIME	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	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 YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRACTION (UG/L)
SEP 18...	1310	<.7	<.3	<1.0	<.4	4.2	<.4	4.0	<.4	.02	.03

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	CYANIDE TOTAL (MG/L AS CN)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ATRA- ZINE, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 04...	1330	.00	ND	--	ND	--	ND	ND	--	ND	--
MAR 15...	1130	.00	--	--	--	--	--	--	--	--	--
SEP 18...	1310	.00	.0	0	.00	.0	--	.0	0	.00	.0

DATE	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)
OCT 04...	ND	--	ND	--	ND	ND	--	--	ND	--	ND
MAR 15...	--	--	--	--	--	--	--	--	--	--	--
SEP 18...	.00	.0	.00	.0	.00	.00	.0	.00	.00	.0	.00

DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- EPOXIDE TOTAL (UG/L)	HEPTA- EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)
OCT 04...	ND	--	ND	--	ND	--	ND	ND	--	ND	ND
MAR 15...	--	--	--	--	--	--	--	--	--	--	--
SEP 18...	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00	.00

DATE	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	SIMA- ZINE TOTAL COUL- SON COND. (UG/L)
OCT 04...	--	ND	--	ND	--	ND	ND	ND	ND	ND
MAR 15...	--	--	--	--	--	--	--	--	--	--
SEP 18...	.00	.00	.00	0	0	.00	.00	.00	.00	--

ND Material specifically analyzed for but not detected.

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
OCT										
04...	1245	11.5	1.1	1	.00	--	--	--	--	--
26...	1140	9.0	.87	4	.01	--	--	--	--	--
NOV										
29...	1325	7.0	1.1	8	.02	--	--	--	--	--
DEC										
18...	1355	4.0	1.7	1	.00	--	--	--	--	--
JAN										
23...	1110	6.0	12	1	.03	--	--	--	--	--
FEB										
13...	1420	9.0	150	22	8.9	--	88	91	97	100
MAR										
15...	1020	9.0	29	7	.55	75	--	--	--	--
APR										
19...	1015	7.0	17	0	.00	--	--	--	--	--
MAY										
23...	1200	13.0	12	4	.13	62	--	--	--	--
JUN										
27...	1300	17.0	3.2	4	.03	77	--	--	--	--
JUL										
25...	1450	20.0	1.8	0	.00	--	--	--	--	--
AUG										
22...	1410	15.0	1.3	0	.00	--	--	--	--	--
SEP										
18...	1300	14.5	.79	0	.00	--	--	--	--	--

EEL RIVER BASIN

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA

LOCATION.--Lat 39°52'29", long 123°43'10", in NE4SE4 sec.3, T.23 N., R.17 W., Mendocino County, Hydrologic Unit 18010106, on right bank near Standish-Hickey State Park, 0.2 mi (0.3 km) upstream from Rock Creek, and 0.7 mi (1.1 km) northwest of Leggett.

DRAINAGE AREA.--248 mi² (642 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 693.32 ft (211.324 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--14 years, 885 ft³/s (25.06 m³/s), 641,200 acre-ft/yr (791 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,700 ft³/s (2,060 m³/s) Jan. 4, 1966, gage height, 25.4 ft (7.74 m), from floodmarks, from rating curve extended above 21,000 ft³/s (595 m³/s) on basis of slope-area measurement at gage height 26.13 ft (7.964 m); minimum daily, 7.3 ft³/s (0.21 m³/s) Aug. 4-6, 12, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 26.13 ft (7.964 m), from floodmarks, discharge, 78,700 ft³/s (2,230 m³/s), by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,500 ft³/s (241 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 11	0845	*20100	569	14.18	4.322
Feb. 13	1315	10000	283	10.31	3.142

Minimum daily discharge, 21 ft³/s (0.59 m³/s) Sept. 22-25, 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	29	118	39	161	3990	864	494	210	81	39	31
2	33	29	126	39	154	2700	768	458	202	79	39	41
3	33	29	83	39	147	2630	693	426	190	78	38	46
4	32	29	66	46	140	2230	628	401	185	77	37	41
5	31	30	61	48	135	1790	576	1080	177	75	36	37
6	31	30	55	50	130	1480	551	1800	169	73	35	33
7	32	31	51	47	126	1240	514	2700	163	72	35	32
8	31	31	46	149	120	1080	470	1970	158	70	34	30
9	31	30	44	710	129	945	452	1480	151	72	34	29
10	32	30	44	2000	142	824	424	1200	145	89	31	27
11	31	29	48	12000	180	734	440	1020	140	88	30	28
12	31	29	54	3660	239	664	404	881	135	75	29	27
13	31	30	53	1710	7630	603	380	771	131	67	29	25
14	31	31	49	2460	4120	555	356	693	129	63	29	25
15	30	31	46	2420	2890	680	337	628	128	59	30	24
16	30	31	44	1290	4360	727	388	568	125	57	31	23
17	30	31	61	941	2550	708	523	518	126	55	30	22
18	30	31	74	745	6170	642	462	473	125	52	29	22
19	31	64	70	574	3550	634	414	436	120	50	29	22
20	31	172	61	472	3090	575	385	409	114	49	29	22
21	31	126	55	407	4370	544	362	389	109	47	29	22
22	31	88	52	355	4450	500	357	372	106	47	29	21
23	31	72	49	305	4320	464	615	353	102	47	29	21
24	31	60	47	271	2960	433	993	327	96	46	29	21
25	31	50	47	245	2170	410	703	305	92	44	28	21
26	31	43	45	227	2360	407	719	285	90	43	26	22
27	30	40	44	210	1760	2430	759	269	89	42	26	22
28	30	39	44	199	4440	2330	653	255	86	41	27	21
29	30	39	43	186	---	1360	574	245	83	41	27	21
30	29	40	41	175	---	1130	528	232	82	40	27	21
31	29	---	40	168	---	983	---	221	---	40	28	---
TOTAL	960	1374	1761	32187	62993	36422	16292	21659	3958	1859	958	800
MEAN	31.0	45.8	56.8	1038	2250	1175	543	699	132	60.0	30.9	26.7
MAX	34	172	126	12000	7630	3990	993	2700	210	89	39	46
MIN	29	29	40	39	120	407	337	221	82	40	26	21
AC-FT	1900	2730	3490	63840	124900	72240	32320	42960	7850	3690	1900	1590
CAL YR 1978	TOTAL	315047	MEAN 863	MAX 15900	MIN 29	AC-FT 624900						
WTR YR 1979	TOTAL	181223	MEAN 497	MAX 12000	MIN 21	AC-FT 359500						

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1966 to June 1979 (discontinued).

CHEMICAL ANALYSES: Water year 1977.

WATER TEMPERATURES: Water year 1966 to June 1979 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1965 to June 1979.

INSTRUMENTATION.--Temperature recorder since October 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 26.5°C July 27, 1973; minimum recorded, 2.5°C Dec. 11-14, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 22.5°C June 26; minimum for period recorded, 4.0°C Dec. 31, Jan. 1-3.

TEMPERATURE, WATER (DEG. C), PERIOD OCTOBER 1978 TO JUNE 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	18.5	13.5	13.0	9.5	9.5	4.0	4.0	5.5	5.5	9.5	9.5
2	19.0	18.5	13.5	13.0	9.5	8.0	4.0	4.0	5.5	5.0	9.5	9.5
3	19.0	18.5	13.0	13.0	8.0	8.0	4.5	4.0	5.0	5.0	10.5	9.5
4	19.0	18.5	13.0	13.0	8.0	8.0	5.0	4.5	5.5	5.0	11.0	10.5
5	19.0	18.5	13.0	13.0	8.0	7.5	6.0	5.0	6.5	5.5	11.5	11.0
6	19.0	18.5	13.5	13.0	7.5	7.0	6.5	6.5	7.5	6.5	12.5	11.5
7	18.5	18.5	13.0	13.0	7.0	6.5	6.5	6.5	7.5	7.0	12.5	12.5
8	18.5	18.0	13.0	12.5	6.5	6.0	7.5	6.5	7.5	7.0	13.0	12.5
9	18.5	18.0	13.0	12.5	6.5	6.0	8.5	7.5	8.0	7.0	13.0	12.5
10	18.5	18.0	12.5	11.5	6.5	6.0	9.5	8.5	8.0	8.0	12.5	12.5
11	18.5	18.0	11.5	10.5	7.5	7.0	10.5	9.5	9.0	8.0	12.5	12.5
12	18.5	17.5	10.5	10.0	7.5	7.5	10.5	10.5	9.0	9.0	13.5	12.5
13	18.5	17.5	10.0	10.0	7.5	7.0	10.5	9.5	9.5	9.0	12.0	12.0
14	18.0	17.5	10.0	9.5	7.5	7.0	9.5	8.5	9.5	9.0	12.0	12.0
15	18.0	17.5	9.5	9.5	7.0	6.5	8.5	8.5	9.0	8.0	12.0	11.0
16	18.0	17.5	9.5	9.5	6.5	6.5	8.5	8.5	8.5	8.0	11.0	10.5
17	18.0	17.5	10.0	9.5	6.5	6.0	9.0	8.5	8.5	8.5	11.0	10.5
18	18.0	17.5	10.0	10.0	6.0	5.5	8.5	7.5	8.5	8.5	10.5	10.0
19	17.5	17.5	10.0	10.0	6.5	5.0	7.5	7.5	9.0	8.5	11.5	10.0
20	17.5	17.5	10.0	10.0	5.0	5.0	7.5	7.5	9.0	8.0	12.0	10.5
21	17.5	17.0	10.0	10.0	5.5	5.0	9.0	7.5	9.5	7.5	11.0	11.0
22	17.0	17.0	10.0	9.5	5.5	5.5	9.0	7.5	9.5	9.5	11.0	10.5
23	17.0	16.5	9.5	9.5	5.5	5.5	9.0	9.0	9.5	9.5	12.0	10.5
24	16.5	16.5	9.5	9.0	5.5	5.0	9.0	9.0	10.5	9.5	12.5	10.5
25	16.5	16.5	9.0	9.0	5.0	5.0	9.0	8.0	10.5	10.5	12.5	11.0
26	16.5	16.0	9.0	8.5	5.5	5.5	8.0	7.5	10.5	10.5	11.0	11.0
27	16.5	16.0	8.5	8.5	5.5	5.5	7.5	7.0	10.5	9.5	11.0	10.0
28	16.0	15.5	9.0	8.5	5.5	5.0	7.0	6.0	9.5	9.5	10.5	10.0
29	15.5	15.0	9.0	9.0	5.0	5.0	6.0	5.5	---	---	11.0	10.0
30	15.0	14.5	9.5	9.0	5.0	5.0	5.5	5.5	---	---	11.0	10.0
31	14.5	13.5	---	---	5.0	4.0	5.5	5.5	---	---	11.5	9.5
MONTH	19.5	13.5	13.5	8.5	9.5	4.0	10.5	4.0	10.5	5.0	13.5	9.5

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA

LOCATION.--Lat 40°10'55", long 123°46'30", in NW¼ 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 (0.8 km) upstream from Rocky Glen Creek, 4.3 mi (6.9 km) southeast of Miranda, and 20 mi (32 km) upstream from mouth.

DRAINAGE AREA.--537 mi² (1,391 km²).

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 (66.315 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 2, 1940, nonrecording gage at site 200 ft (61 m) upstream at datum 0.8 ft (0.24 m) higher. Nov. 2, 1940, to Oct. 31, 1944, nonrecording gage at present site and datum.

REMARKS.--Records good. Occasional storage and release for recreation use during summer months at Benbow Dam. No diversion above station.

AVERAGE DISCHARGE.--40 years, 1,890 ft³/s (53.52 m³/s), 1,369,000 acre-ft/yr (1.69 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 199,000 ft³/s (5,640 m³/s) Dec. 22, 1964, gage height, 46.0 ft (14.02 m), from floodmarks, from rating curve extended above 53,000 ft³/s (1,500 m³/s) on basis of slope-area measurement at gage height 42.7 ft (13.01 m); minimum observed, 9 ft³/s (0.25 m³/s) Oct. 17, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s (425 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 11	1230	*40200	1140	19.48	5.938	Feb. 18	1915	15600	442	13.07	3.984
Feb. 13	1715	19600	555	14.28	4.353						

Minimum daily discharge, 41 ft³/s (1.16 m³/s) Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	52	133	78	358	9220	1820	992	480	165	75	58
2	65	51	204	76	337	6180	1600	928	459	161	73	82
3	65	51	197	75	316	5510	1420	865	442	160	71	96
4	66	51	153	81	303	5070	1280	819	421	157	67	89
5	66	51	128	88	294	4100	1180	2150	399	155	65	79
6	66	51	115	90	287	3370	1120	3940	381	154	63	71
7	66	50	106	91	281	2810	1050	6260	373	153	62	63
8	66	51	98	193	259	2400	970	5150	358	150	61	57
9	66	51	92	1200	257	2060	933	3680	344	150	59	54
10	65	50	87	2360	274	1790	881	2830	333	182	58	53
11	63	49	91	26100	371	1580	909	2280	318	185	57	56
12	64	50	102	9060	918	1420	865	1900	290	170	56	53
13	64	54	104	4430	15200	1290	805	1640	285	154	56	50
14	63	54	102	4480	9280	1190	763	1440	258	142	55	48
15	62	54	96	5640	5910	1350	728	1290	217	136	56	46
16	60	55	90	3330	8350	1620	801	1170	232	129	56	45
17	60	57	134	2280	5730	1550	1100	1070	210	122	56	44
18	59	56	200	1770	11900	1380	1010	982	225	117	56	44
19	58	87	184	1280	9030	1300	883	913	224	114	58	44
20	58	245	159	1030	6350	1200	815	861	229	110	58	43
21	58	335	139	878	9160	1140	770	821	232	103	59	42
22	58	255	125	789	8840	1060	746	788	223	101	60	41
23	58	182	117	673	9360	985	1060	751	215	99	60	42
24	58	147	111	609	6760	927	1870	713	212	98	58	42
25	58	123	106	560	5110	882	1400	677	202	93	57	43
26	58	108	102	502	5380	863	1320	638	193	90	56	43
27	57	99	97	460	4180	4260	1540	609	187	86	55	43
28	55	91	92	437	8180	6550	1310	576	182	85	54	42
29	54	88	89	407	---	3580	1150	553	167	83	58	42
30	53	87	85	388	---	2660	1060	527	165	79	57	42
31	53	---	81	374	---	2150	---	506	---	76	55	---
TOTAL	1887	2785	3719	69809	132975	81447	33159	48319	8456	3959	1847	1597
MEAN	60.9	92.8	120	2252	4749	2627	1105	1559	282	128	59.6	53.2
MAX	66	335	204	26100	15200	9220	1870	6260	480	185	75	96
MIN	53	49	81	75	257	863	728	506	165	76	54	41
AC-FT	3740	5520	7380	138500	263800	161600	65770	95840	16770	7850	3660	3170
CAL YR 1978	TOTAL	664519	MEAN	1821	MAX	39000	MIN	49	AC-FT	1318000		
WTR YR 1979	TOTAL	389959	MEAN	1068	MAX	26100	MIN	41	AC-FT	773500		

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	CHLORIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)
OCT 03...	--	--	--	--	--	--	--	--	--
NOV 07...	--	--	--	--	--	--	--	--	--
DEC 06...	--	--	--	--	--	--	--	--	--
JAN 03...	7.0	151	134	.21	31.0	.02	--	--	100
FEB 14...	--	--	--	--	--	--	--	--	--
MAR 13...	--	--	--	--	--	--	--	--	--
APR 04...	--	--	--	--	--	--	--	--	--
MAY 08...	1.0	68	59	.09	894	.07	.02	.01	100
JUN 06...	--	--	--	--	--	--	--	--	--
JUL 10...	5.0	--	--	--	--	--	.01	.00	100
AUG 08...	--	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--	--

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	17.0	13.0	10.0	11.5	10.5	3.5	2.5	7.0	5.0	9.0	7.5
2	21.0	16.0	12.5	10.0	10.5	8.5	4.0	3.0	6.0	4.5	8.5	7.5
3	22.5	16.5	13.0	10.0	9.5	8.5	5.5	4.0	6.0	4.5	9.5	8.5
4	21.0	16.5	14.0	11.0	9.5	8.0	7.5	5.5	8.0	5.5	11.0	9.0
5	21.5	16.5	14.5	12.0	9.5	7.5	9.5	7.5	9.0	8.0	12.0	10.0
6	18.5	17.0	14.5	11.5	7.5	5.5	9.5	8.5	10.0	9.0	13.0	11.0
7	20.0	16.0	14.0	11.0	6.5	5.0	8.5	8.5	10.0	9.0	13.5	11.0
8	20.0	15.5	14.0	11.0	5.5	4.5	9.5	8.5	10.0	9.0	14.0	11.5
9	20.0	17.0	13.0	10.5	7.0	5.5	10.0	9.5	10.5	9.5	14.0	11.5
10	20.5	17.0	10.5	8.5	8.5	7.0	11.5	9.5	11.0	10.0	12.5	11.5
11	21.0	17.0	9.0	6.5	10.0	8.5	11.5	9.5	11.0	10.0	13.0	11.5
12	21.5	17.0	7.0	5.5	10.0	10.0	11.5	11.5	11.0	10.0	14.5	11.5
13	21.0	17.0	8.5	6.0	10.5	10.0	11.5	10.0	10.0	9.5	13.5	11.5
14	20.0	17.0	8.5	7.0	10.0	9.0	10.0	9.5	9.5	8.5	12.0	11.5
15	19.5	17.0	8.0	6.5	9.5	8.5	9.5	9.5	9.0	8.0	11.5	10.5
16	19.0	17.5	9.5	8.0	8.5	7.0	9.5	9.5	9.0	8.0	11.0	10.0
17	20.5	16.5	11.5	9.5	8.0	7.0	9.5	9.0	9.0	9.0	12.5	10.5
18	20.0	16.5	11.5	11.5	8.0	7.0	9.0	8.0	9.0	9.0	11.5	10.5
19	18.5	16.5	12.5	11.5	7.5	7.0	8.0	8.0	10.0	9.0	13.5	9.5
20	17.5	16.5	12.5	11.5	7.0	5.5	8.0	8.0	10.0	9.0	14.0	11.0
21	18.5	15.5	12.0	11.5	7.0	5.5	8.0	8.0	9.0	8.5	13.0	12.5
22	18.0	15.0	12.0	10.5	8.0	7.0	8.0	8.0	8.5	7.5	13.5	11.5
23	18.0	14.5	12.0	10.5	9.0	7.0	8.0	8.0	8.5	7.0	14.5	11.0
24	17.5	14.0	11.5	10.0	9.0	7.5	8.0	8.0	9.0	7.5	14.5	11.5
25	17.5	14.0	10.5	8.5	9.0	8.0	8.0	6.0	9.0	8.5	14.5	11.5
26	17.0	14.0	10.5	8.5	9.0	8.0	6.0	6.0	9.5	7.5	12.5	11.5
27	17.0	14.0	9.5	8.5	9.0	9.0	6.5	6.0	9.0	7.5	11.5	9.5
28	16.0	13.5	11.5	9.5	9.0	7.5	6.0	5.0	9.0	8.0	11.5	9.5
29	15.0	12.5	12.5	11.5	7.5	5.5	5.5	4.5	---	---	12.0	10.0
30	14.0	11.0	12.5	11.5	5.5	3.5	5.5	5.0	---	---	12.5	9.5
31	13.5	10.5	---	---	3.5	2.5	6.0	5.0	---	---	12.5	9.5
MONTH	22.5	10.5	14.5	5.5	11.5	2.5	11.5	2.5	11.0	4.5	14.5	7.5

EEL RIVER BASIN

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	9.5	16.0	13.5	24.0	18.5	24.0	18.0	25.5	19.5	21.0	19.0
2	12.5	10.0	18.5	13.5	25.0	19.5	23.5	17.0	25.5	19.0	22.0	19.5
3	14.0	10.5	18.5	15.5	24.5	20.0	24.0	17.0	24.5	18.5	24.0	19.5
4	15.0	11.5	17.0	15.0	23.5	19.5	25.0	19.0	24.5	19.0	23.5	19.5
5	13.5	12.5	15.0	12.5	23.5	19.0	25.0	16.0	24.5	18.5	23.5	19.5
6	15.0	12.5	12.5	11.5	21.5	18.0	25.5	18.5	25.0	19.0	24.0	19.0
7	16.0	12.5	12.0	10.0	21.5	16.5	25.0	19.0	24.5	18.0	24.5	19.0
8	14.5	12.5	12.0	10.0	23.5	18.5	25.0	20.0	24.5	17.5	24.5	21.0
9	13.5	11.5	14.0	10.5	24.5	19.5	22.0	20.0	23.5	18.0	23.5	18.5
10	12.5	11.5	17.0	10.5	24.5	19.5	24.5	19.5	23.0	18.0	23.5	17.5
11	15.5	12.0	17.0	12.0	24.0	19.5	25.5	20.0	22.5	17.5	23.5	18.0
12	14.5	13.0	18.0	14.0	22.5	18.5	25.5	20.0	22.0	18.5	25.0	18.0
13	16.5	12.5	19.0	14.0	21.5	17.5	25.5	19.0	23.0	18.0	24.5	19.5
14	16.5	12.5	19.5	15.5	22.0	16.5	25.5	18.5	24.0	18.0	24.5	19.5
15	17.5	14.5	19.0	15.5	22.0	16.0	27.0	19.0	24.5	19.0	24.5	19.0
16	15.5	12.5	19.0	15.5	20.0	17.0	29.0	21.0	26.0	19.0	23.5	18.0
17	14.0	12.0	20.0	15.5	20.5	16.5	29.0	21.5	25.5	20.0	22.5	19.0
18	14.5	11.0	21.0	16.0	22.0	16.0	27.5	20.5	25.0	19.0	22.5	18.5
19	14.5	11.0	22.0	16.5	23.0	17.0	27.5	19.5	22.5	20.5	23.5	18.5
20	16.0	12.0	21.0	17.5	22.5	17.5	28.0	20.5	24.0	19.0	21.5	18.0
21	16.5	12.5	19.0	16.0	23.0	18.0	26.5	21.5	24.5	19.0	21.5	17.5
22	17.5	13.5	19.0	16.0	22.5	17.5	27.5	21.5	25.0	19.5	21.5	16.5
23	15.5	12.0	20.0	16.5	24.0	17.0	28.5	22.0	25.0	20.0	22.5	17.5
24	15.5	11.5	21.0	15.5	25.0	18.5	29.0	22.5	25.0	20.0	21.0	18.5
25	15.5	12.5	23.0	17.5	25.0	18.5	27.5	21.5	25.0	20.0	20.0	17.5
26	14.5	13.5	22.0	18.5	25.0	19.0	26.5	20.5	25.5	20.0	21.5	17.5
27	15.5	13.5	20.0	16.0	25.0	19.0	25.0	20.5	25.0	20.0	21.5	17.5
28	17.5	13.0	18.5	14.5	24.0	18.5	24.5	19.5	24.0	20.5	21.5	17.0
29	16.5	14.0	19.5	14.5	24.5	18.0	25.0	18.5	23.5	20.0	19.5	17.0
30	15.5	14.5	21.0	15.0	24.0	19.0	26.5	19.0	23.5	19.5	20.5	16.0
31	---	---	22.5	17.0	---	---	26.0	21.0	25.0	19.5	---	---
MONTH	17.5	9.5	23.0	10.0	25.0	16.0	29.0	17.0	26.0	17.5	25.0	16.0

11476600 BULL CREEK NEAR WEOTT, CA

LOCATION.--Lat 40°21'05", long 124°00'10", in SW¼NW¼ sec.30, T.1 S., R.2 E., Humboldt County, Hydrologic Unit 18010106, on left bank 0.2 mi (0.3 km) downstream from Albee Creek, 4.5 mi (7.2 km) northwest of Weott, and 4.6 mi (7.4 km) upstream from mouth.

DRAINAGE AREA.--28.1 mi² (72.8 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 269.36 ft (82.101 m) 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 (46 m) downstream at datum 8.90 ft (2.713 m) lower.

REMARKS.--Records good. Minor diversions above station for domestic use.

AVERAGE DISCHARGE.--19 years, 122 ft³/s (3.455 m³/s), 88,390 acre-ft/yr (109 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft³/s (185 m³/s) Dec. 22, 1964, gage height, 20.6 ft (6.28 m), from floodmarks, site and datum then in use, from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 28, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 878 ft³/s (24.9 m³/s) Jan. 11, gage height, 6.16 ft (1.878 m), no peak above base of 1,700 ft³/s (48.1 m³/s); minimum daily, 1.5 ft³/s (0.042 m³/s) Sept. 26-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	3.5	23	3.4	27	350	120	70	33	12	4.0	4.1
2	4.1	3.4	10	3.5	25	315	110	66	32	12	3.8	8.7
3	3.8	3.2	7.9	3.5	25	280	100	62	30	11	3.8	4.7
4	4.0	3.2	7.1	4.3	24	250	91	60	29	11	3.8	3.9
5	4.0	3.2	6.5	4.4	23	205	84	133	28	11	3.8	3.4
6	4.0	3.2	5.5	4.4	23	185	80	178	27	10	3.8	3.0
7	4.1	3.1	5.1	4.4	22	165	72	222	26	10	3.4	3.0
8	4.1	2.9	4.8	5.2	20	145	67	212	25	9.8	3.3	3.0
9	4.1	2.9	4.8	7.3	20	127	65	194	24	12	3.3	2.9
10	4.1	2.7	4.8	22.0	22	111	64	174	24	14	3.3	2.6
11	4.1	2.7	6.3	68.0	30	101	68	150	22	11	3.2	2.6
12	4.1	3.1	6.9	20.0	140	93	61	135	21	9.2	3.0	2.5
13	4.0	3.5	5.7	9.5	61.3	87	55	120	20	8.6	3.0	2.0
14	3.8	3.5	5.5	18.5	36.1	81	53	109	20	8.0	3.0	1.8
15	3.8	3.4	5.3	18.5	34.2	99	49	99	19	7.6	3.0	1.6
16	3.8	3.6	5.0	13.0	35.1	89	71	88	20	7.2	3.0	1.7
17	3.8	3.5	9.4	11.5	32.9	85	93	81	20	7.1	2.8	1.7
18	3.8	3.6	9.8	8.0	46.4	81	82	74	18	6.2	2.7	1.7
19	3.8	14	8.0	7.0	37.0	75	74	67	18	6.1	2.6	1.7
20	3.8	16	6.9	6.3	34.0	70	69	62	17	5.7	2.9	1.7
21	3.7	16	6.7	5.5	38.0	67	64	58	16	5.4	3.0	1.7
22	3.5	10	6.5	4.9	43.5	63	62	55	16	5.2	2.8	1.7
23	3.5	8.2	6.3	4.5	39.0	59	85	50	15	5.0	2.6	1.7
24	3.5	7.3	6.0	4.2	33.5	56	87	48	15	5.0	2.6	1.7
25	3.5	6.4	5.5	3.9	30.0	54	77	45	15	4.7	2.6	1.6
26	3.5	5.7	5.5	3.7	31.0	53	84	43	14	4.7	2.5	1.5
27	3.5	5.5	5.5	3.5	28.0	25.4	85	40	14	4.7	2.3	1.5
28	3.5	5.1	5.5	3.3	39.0	26.5	78	38	13	4.6	2.4	1.5
29	3.5	5.9	5.0	3.1	---	19.5	75	37	13	4.3	2.5	1.5
30	3.5	9.8	4.2	3.0	---	16.4	72	35	12	4.3	2.8	1.5
31	3.5	---	3.6	2.8	---	13.6	---	35	---	4.1	2.8	---
TOTAL	118.2	168.1	208.6	2599.9	6391	4360	2297	2840	616	241.5	94.4	74.2
MEAN	3.81	5.60	6.73	83.9	228	141	76.6	91.6	20.5	7.79	3.05	2.47
MAX	4.4	16	23	68.0	61.3	350	120	222	33	14	4.0	8.7
MIN	3.5	2.7	3.6	3.4	2.0	5.3	4.9	3.5	1.2	4.1	2.3	1.5
AC-FT	234	333	414	5160	12680	8650	4560	5630	1220	479	187	147
CAL YR 1978	TOTAL	54734.3	MEAN	150	MAX	2720	MIN	2.5	AC-FT	108600		
WTR YR 1979	TOTAL	20008.9	MEAN	54.8	MAX	680	MIN	1.5	AC-FT	39690		

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to September 1979 (discontinued).

CHEMICAL ANALYSES: Water year 1977.

WATER TEMPERATURES: Water years 1976 to September 1979 (discontinued).

SEDIMENT RECORDS: Water years 1976 to September 1979 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1975 to September 1979.

SEDIMENT RECORDS: October 1975 to September 1979.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum observed, 29.5°C Aug. 3, 10, 1977; minimum observed, 2.0°C Dec. 29, 1978.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 14,400 mg/L Dec. 14, 1977; minimum daily mean, 1 mg/L many days in 1975-79.

SEDIMENT DISCHARGE: Maximum daily, 129,000 tons (117,000 metric tons) Dec. 14, 1977; minimum daily, 0 ton (0 metric ton) many days in 1975, 1977, 1979.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum observed 27.0°C June 26; minimum observed, 2.0°C Dec. 29.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,000 mg/L Jan. 11; minimum daily mean, 1 mg/L many days.

SEDIMENT DISCHARGE: Maximum daily, 11,000 tons (9,980 metric tons) Jan. 11; minimum daily, 0 ton (0 metric ton) Sept. 14-30.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	14.5	11.0	3.5	---	10.0	13.0	---	---	---	---	---
2	11.0	---	---	6.0	9.0	10.0	12.0	---	---	---	---	---
3	22.0	---	6.0	---	---	10.0	12.0	15.0	---	24.0	---	---
4	---	14.0	---	---	---	11.5	15.0	13.0	21.0	---	---	---
5	---	---	10.0	---	11.0	---	13.0	15.0	---	---	---	---
6	18.0	---	---	---	12.0	15.5	14.0	13.0	---	---	---	---
7	---	---	---	---	---	15.0	15.0	12.0	23.0	---	---	---
8	---	15.0	---	9.0	---	15.0	---	12.0	---	---	---	---
9	20.0	---	---	10.0	---	---	10.0	16.0	---	---	---	---
10	---	---	---	10.0	11.5	15.0	11.0	16.0	---	---	---	---
11	---	---	10.0	11.0	12.0	14.5	11.0	---	---	---	---	---
12	---	---	---	10.0	10.0	---	12.0	13.0	---	---	---	---
13	22.0	15.0	10.0	9.0	10.0	15.0	10.0	19.0	---	---	---	---
14	---	---	---	9.0	10.0	---	---	---	---	---	---	---
15	---	---	---	10.0	9.0	11.0	15.0	19.0	---	---	---	---
16	17.5	12.0	5.0	9.0	10.0	10.0	13.0	18.0	---	---	---	---
17	17.5	---	7.0	8.0	10.0	9.0	12.0	---	---	---	---	---
18	---	11.0	---	7.0	9.5	---	---	---	---	---	---	---
19	---	13.0	---	---	9.5	11.0	13.0	---	---	---	---	---
20	---	11.0	6.0	6.0	9.0	---	---	18.0	19.0	---	---	---
21	---	13.0	---	8.0	10.0	10.0	---	18.0	---	---	---	---
22	---	---	5.0	10.0	9.0	14.5	15.0	---	---	---	---	---
23	---	11.0	---	10.0	10.0	---	11.0	17.0	---	---	---	---
24	---	---	10.0	7.0	---	---	16.0	---	---	---	---	---
25	---	---	---	---	10.0	---	12.0	16.0	---	---	---	---
26	---	---	---	---	10.0	10.0	12.0	---	27.0	---	---	---
27	---	---	6.0	---	10.0	10.0	14.0	---	---	---	---	---
28	15.0	---	---	---	9.0	13.0	17.0	18.0	---	---	---	---
29	---	---	2.0	7.0	---	---	---	20.0	16.0	---	21.0	---
30	---	---	---	---	---	13.0	14.0	23.0	---	---	---	---
31	---	---	5.0	10.0	---	---	---	23.0	---	---	---	---
MEAN	---	---	---	8.5	10.0	12.0	13.0	16.5	---	---	---	---

11476600 BULL CREEK NEAR WEOTT, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY) • WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	4.4	2	.02	3.5	3	.03	23	98	6.9
2	4.1	3	.03	3.4	1	.01	10	28	.76
3	3.8	2	.02	3.2	1	.01	7.9	10	.21
4	4.0	2	.02	3.2	1	.01	7.1	7	.13
5	4.0	2	.02	3.2	1	.01	6.5	4	.07
6	4.0	2	.02	3.2	1	.01	5.5	4	.06
7	4.1	2	.02	3.1	1	.01	5.1	4	.06
8	4.1	2	.02	2.9	1	.01	4.8	3	.04
9	4.1	2	.02	2.9	1	.01	4.8	3	.04
10	4.1	2	.02	2.7	1	.01	4.8	3	.04
11	4.1	2	.02	2.7	1	.01	6.3	8	.14
12	4.1	2	.02	3.1	1	.01	6.9	4	.07
13	4.0	2	.02	3.5	1	.01	5.7	4	.06
14	3.8	2	.02	3.5	1	.01	5.5	4	.06
15	3.8	2	.02	3.4	1	.01	5.3	4	.06
16	3.8	2	.02	3.6	1	.01	5.0	4	.05
17	3.8	3	.03	3.5	1	.01	9.4	15	.38
18	3.8	3	.03	3.6	1	.01	9.8	10	.26
19	3.8	3	.03	14	21	.83	8.0	7	.15
20	3.8	3	.03	16	16	.75	6.9	5	.09
21	3.7	3	.03	16	15	.65	6.7	5	.09
22	3.5	2	.02	10	6	.16	6.5	5	.09
23	3.5	2	.02	8.2	5	.11	6.3	5	.09
24	3.5	2	.02	7.3	5	.10	6.0	6	.10
25	3.5	2	.02	6.4	4	.07	5.5	6	.09
26	3.5	1	.01	5.7	4	.06	5.5	6	.09
27	3.5	1	.01	5.5	4	.06	5.5	8	.12
28	3.5	1	.01	5.1	3	.04	5.5	5	.07
29	3.5	1	.01	5.9	3	.05	5.0	3	.04
30	3.5	1	.01	9.8	22	1.7	4.2	4	.05
31	3.5	1	.01	---	---	---	3.6	5	.05
TOTAL	118.2	---	.62	168.1	---	4.78	208.6	---	10.51
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	3.4	2	.02	27	5	.36	350	430	406
2	3.5	2	.02	25	5	.34	315	320	272
3	3.5	3	.03	25	4	.27	280	235	178
4	4.3	3	.03	24	4	.26	250	156	105
5	4.4	3	.04	23	4	.25	205	106	59
6	4.4	3	.04	23	4	.25	185	66	33
7	4.4	3	.04	22	4	.24	165	56	25
8	52	542	120	20	4	.22	145	44	17
9	73	592	124	20	4	.22	127	36	12
10	220	3600	2140	22	10	.59	111	28	8.4
11	680	6000	11000	30	56	4.5	101	20	5.5
12	200	1750	945	140	1250	1430	93	17	4.3
13	95	600	154	613	3250	5830	87	14	3.3
14	185	1500	749	361	1140	1110	81	14	3.1
15	185	1000	499	342	1540	1440	99	78	22
16	130	700	246	351	1070	1040	89	64	15
17	115	380	118	329	831	781	85	31	7.1
18	80	230	50	464	1730	2210	81	18	3.9
19	70	150	28	370	680	679	75	14	2.8
20	63	98	17	340	710	652	70	10	1.9
21	55	60	8.9	380	790	811	67	8	1.4
22	49	36	4.8	435	1250	1470	63	9	1.5
23	45	20	2.4	390	780	821	59	8	1.3
24	42	20	2.3	335	390	353	56	7	1.1
25	39	18	1.9	300	640	518	54	6	.87
26	37	15	1.5	310	420	352	53	17	2.4
27	35	12	1.1	280	200	151	254	1890	1770
28	33	10	.89	390	550	579	265	998	797
29	31	8	.67	---	---	---	195	200	105
30	30	8	.65	---	---	---	164	148	66
31	28	7	.53	---	---	---	136	100	37
TOTAL	2599.9	---	16215.86	6391	---	20234.50	4360	---	3967.87

EEL RIVER BASIN

11476600 BULL CREEK NEAR WEOTT, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	120	60	19	70	32	6.0	33	3	.27
2	110	40	12	66	25	4.5	32	3	.26
3	100	28	7.6	62	18	3.0	30	4	.32
4	91	24	5.9	60	18	2.9	29	4	.31
5	84	20	4.5	133	1090	425	28	4	.30
6	80	19	4.1	178	900	433	27	3	.22
7	72	19	3.7	222	720	432	26	15	1.1
8	67	18	3.3	212	400	229	25	8	.54
9	65	16	2.8	194	220	115	24	6	.39
10	64	202	38	174	98	46	24	6	.39
11	68	220	40	150	68	28	22	5	.30
12	61	100	16	135	52	19	21	5	.28
13	55	50	7.4	120	35	11	20	4	.22
14	53	37	5.3	109	30	8.8	20	4	.22
15	49	34	4.5	99	24	6.4	19	3	.15
16	71	478	101	88	17	4.0	20	3	.16
17	93	733	191	81	16	3.5	20	2	.11
18	82	150	33	74	14	2.8	18	2	.10
19	74	88	18	67	12	2.2	18	1	.05
20	69	66	12	62	11	1.8	17	1	.05
21	64	50	8.6	58	7	1.1	16	1	.04
22	62	144	24	55	6	.89	16	1	.04
23	85	278	81	50	6	.81	15	1	.04
24	87	176	41	48	5	.65	15	1	.04
25	77	74	15	45	5	.61	15	2	.08
26	84	174	41	43	5	.58	14	2	.08
27	85	116	27	40	5	.54	14	2	.08
28	78	75	16	38	5	.51	13	2	.07
29	75	54	11	37	8	.80	13	2	.07
30	72	40	7.8	35	5	.47	12	2	.06
31	---	---	---	35	2	.19	---	---	---
TOTAL	2297	---	801.5	2840	---	1791.05	616	---	6.34
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	12	2	.06	4.0	2	.02	4.1	5	.06
2	12	2	.06	3.8	2	.02	8.7	10	.23
3	11	2	.06	3.8	2	.02	4.7	8	.10
4	11	2	.06	3.8	2	.02	3.9	6	.06
5	11	2	.06	3.8	2	.02	3.4	4	.04
6	10	2	.05	3.8	2	.02	3.0	4	.03
7	10	2	.05	3.4	2	.02	3.0	3	.02
8	9.8	2	.05	3.3	2	.02	3.0	3	.02
9	12	3	.10	3.3	2	.02	2.9	3	.02
10	14	4	.15	3.3	2	.02	2.6	2	.01
11	11	3	.09	3.2	2	.02	2.6	2	.01
12	9.2	3	.07	3.0	2	.02	2.5	2	.01
13	8.6	2	.05	3.0	2	.02	2.0	2	.01
14	8.0	2	.04	3.0	2	.02	1.8	1	0
15	7.6	2	.04	3.0	2	.02	1.6	1	0
16	7.2	2	.04	3.0	2	.02	1.7	1	0
17	7.1	2	.04	2.8	2	.02	1.7	1	0
18	6.2	2	.03	2.7	2	.01	1.7	1	0
19	6.1	2	.03	2.6	2	.01	1.7	1	0
20	5.7	2	.03	2.9	2	.02	1.7	1	0
21	5.4	2	.03	3.0	2	.02	1.7	1	0
22	5.2	2	.03	2.8	2	.02	1.7	1	0
23	5.0	2	.03	2.6	2	.01	1.7	1	0
24	5.0	2	.03	2.6	2	.01	1.7	1	0
25	4.7	2	.03	2.6	2	.01	1.6	1	0
26	4.7	2	.03	2.5	2	.01	1.5	1	0
27	4.7	2	.03	2.3	2	.01	1.5	1	0
28	4.6	2	.02	2.4	2	.01	1.5	1	0
29	4.3	2	.02	2.5	2	.01	1.5	1	0
30	4.3	2	.02	2.8	2	.02	1.5	1	0
31	4.1	2	.02	2.8	2	.02	---	---	---
TOTAL	241.5	---	1.45	94.4	---	.53	74.2	---	.62
YEAR	2008.9		43035.63						

11476600 BULL CREEK NEAR WEOTT, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM
DEC 01...	1600	11.0	15	78	3.2	--	--	--	--	--
JAN 11...	0630	10.0	675	8540	15600	--	34	48	62	77
FEB 18...	1100	9.5	483	1610	2100	18	26	34	45	55
MAR 07...	1250	11.5	164	50	22	--	--	--	--	--
APR 24...	1555	16.0	82	118	26	--	--	--	--	--

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	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
DEC 01...	--	99	--	100	--	--	--	--	--	--
JAN 11...	85	--	94	--	99	--	100	--	--	--
FEB 18...	--	62	--	71	--	84	--	95	99	100
MAR 07...	--	76	--	81	--	86	--	96	100	--
APR 24...	--	76	--	90	--	97	--	100	--	--

11477000 EEL RIVER AT SCOTIA, CA
(National stream-quality accounting network station)

LOCATION.--Lat 40°29'30", long 124°05'55", in SW¼ 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 (0.8 km) north of Scotia, and 6 mi (10 km) upstream from Van Duzen River.

DRAINAGE AREA.--3,113 mi² (8,063 km²).

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 (10.820 m) 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 (222 km) upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--69 years, 7,277 ft³/s (206.1 m³/s), 5,272,000 acre-ft/yr (6.50 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 752,000 ft³/s (21,300 m³/s) Dec. 23, 1964, gage height, 72.0 ft (21.95 m), from floodmarks, from rating curve extended above 220,000 ft³/s (6,230 m³/s) on basis of maximum flow at upstream stations; minimum observed, 10 ft³/s (0.28 m³/s) Aug. 12-14, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 96,100 ft³/s (2,720 m³/s) Jan. 11 (2130 hrs), gage height, 27.51 ft (8.385 m), no other peaks above base of 72,000 ft³/s (2,040 m³/s); minimum daily, 96 ft³/s (2.72 m³/s) Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	136	497	293	1200	46200	7850	5400	1630	481	178	139
2	180	132	538	281	1170	28100	6910	4600	1520	465	174	164
3	180	132	538	273	1100	22600	6190	4120	1430	449	168	188
4	175	132	591	265	1020	22300	5620	3890	1360	442	165	204
5	170	132	538	270	983	18700	5140	5340	1290	427	160	198
6	166	132	465	277	959	16700	4990	12200	1220	419	155	195
7	161	128	404	286	929	16500	4780	21100	1180	412	156	184
8	161	128	362	422	908	15700	4400	23500	1130	404	148	174
9	157	128	335	2350	904	14000	4210	16700	1080	397	142	162
10	152	140	329	4080	919	11500	4100	12400	1030	412	140	152
11	152	148	317	51200	1110	10200	4760	9900	960	434	142	145
12	148	166	329	46300	1680	9570	4440	8520	892	427	140	141
13	148	144	348	15800	32700	8400	4100	7530	848	397	132	136
14	148	140	342	11800	55500	7540	3850	6760	815	383	129	130
15	148	144	329	18400	25100	8210	3690	6140	774	362	128	125
16	148	144	323	12500	29900	9600	3810	5610	743	342	130	121
17	152	144	369	7520	25600	9410	5290	4990	753	329	126	118
18	157	148	434	5660	33000	8040	5420	4490	713	312	128	115
19	170	170	582	4420	39300	7310	4490	4150	703	292	132	112
20	170	248	655	3590	22100	6880	3930	3860	693	286	136	108
21	166	457	609	3020	34100	5970	3600	3570	703	275	138	103
22	166	582	564	2700	31100	5250	3410	3330	684	262	138	103
23	157	556	481	2440	33400	4700	3630	3150	655	248	136	100
24	148	489	412	2220	25900	4300	7020	2880	646	244	133	96
25	148	404	383	2070	18400	4040	7120	2650	609	232	131	98
26	148	348	362	1890	19700	3990	5530	2430	582	223	133	102
27	144	310	348	1720	19000	8700	6560	2240	564	212	128	113
28	144	287	335	1580	22400	31500	7190	2090	538	207	127	113
29	144	293	325	1460	---	18400	5830	1980	513	204	131	112
30	136	310	314	1360	---	12800	5830	1860	497	196	137	110
31	136	---	305	1270	---	9670	---	1760	---	187	136	---
TOTAL	4860	6952	13063	207717	480082	406780	153690	199140	26755	10362	4377	4061
MEAN	157	232	421	6701	17150	13120	5123	6424	892	334	141	135
MAX	180	582	655	51200	55500	46200	7850	23500	1630	481	178	204
MIN	136	128	305	265	904	3990	3410	1760	497	187	126	96
AC-FT	9640	13790	25910	412000	952200	806800	304800	395000	53070	20550	8680	8050

CAL YR 1978 TOTAL 3168934 MEAN 8682 MAX 157000 MIN 128 AC-FT 6286000
WTR YR 1979 TOTAL 1517839 MEAN 4158 MAX 55500 MIN 96 AC-FT 3011000

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.
 BIOLOGICAL DATA: Water year 1979.
 SPECIFIC CONDUCTANCE: June to September 1979.
 WATER TEMPERATURES: Water years 1958 to current year.
 SEDIMENT RECORDS: Water years 1955 to current year.
 TURBIDITY: Water years 1965-68, 1972-73.

PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: June to September 1979.
 WATER TEMPERATURES: October 1957 to current year.
 SEDIMENT RECORDS: October 1957 to current year.

INSTRUMENTATION.--Temperature recorder since November 1960.

REMARKS.--Specific conductance samples taken by local observer approximately five times per week. 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, 27.0°C July 23, 1979; minimum recorded, 2.0°C Dec. 11, 1972.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 33,000 mg/L (estimated) Dec. 23, 1964; minimum daily mean, 1 mg/L many days in 1958-64, 1966-67, 1970, 1972-79.
 SEDIMENT DISCHARGE: Maximum daily, 57,000,000 tons (51,700,000 metric tons), estimated, Dec. 23, 1964; minimum daily, 0.07 ton (0.06 metric ton) Aug. 13, 17-20, 1977.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum recorded, 27.0°C July 23; minimum recorded, 3.0°C Dec. 31, Jan. 1.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,700 mg/L Jan. 11; minimum daily mean, 1 mg/L many days.
 SEDIMENT DISCHARGE: Maximum daily, 515,000 tons (467,000 metric tons) Jan. 11; minimum daily, 0.26 ton (0.24 metric ton) Sept. 24, 25.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLIFORM, FECAL, UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CaCO3)
APR 18...	1415	5600	161	7.3	13.0	17	10.7	15	19	72
MAY 16...	1430	5880	148	7.3	16.5	8.6	9.8	K2	K2	71
JUN 20...	1515	702	216	7.7	20.5	.90	10.4	K1	K2	110
JUL 17...	1300	328	252	7.9	22.0	.50	9.1	<1	K1	120
AUG 22...	1430	141	262	8.3	23.0	.50	11.0	<1	K5	120
SEP 24...	1300	93	292	7.6	21.0	.30	10.3	K2	K2	150

DATE	HARDNESS, NONCARBONATE (MG/L CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)
APR 18...	13	19	5.9	5.6	14	.3	.8	62	13	2.8
MAY 16...	10	19	5.6	5.2	14	.3	.7	61	11	3.4
JUN 20...	11	29	8.0	7.2	13	.3	1.2	94	16	4.0
JUL 17...	2	34	9.1	8.3	13	.3	1.5	120	21	5.1
AUG 22...	0	32	9.7	8.6	13	.3	1.2	120	20	6.0
SEP 24...	17	39	12	9.9	13	.4	1.8	130	23	5.8

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
APR 18...	.1	11	96	94	.13	1450	.03	--	.01
MAY 16...	.1	9.4	91	91	.12	1440	.01	--	.01
JUN 20...	.1	3.8	132	126	.18	250	.02	--	.03
JUL 17...	.1	9.5	155	161	.21	137	.02	--	.06
AUG 22...	.1	.8	160	155	.22	60.9	.00	--	.02
SEP 24...	.1	9.8	174	180	.24	43.7	.01	.01	.05

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

EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITRO-GEN, ORGANIC TOTAL (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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
APR 18...	.15	.16	.13	.19	.05	.02	2.3	--	--
MAY 16...	.13	.14	.05	.15	.01	.01	2.2	--	--
JUN 20...	.04	.07	--	.09	.01	.01	--	2.4	.3
JUL 17...	.20	.26	.26	.28	.01	.00	2.9	--	--
AUG 22...	.36	.38	--	.38	--	.02	3.2	--	--
SEP 24...	.32	.37	.27	.38	.02	.03	--	2.6	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC TOTAL SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM, TOTAL RECOV-ERABLE (UG/L AS CU)	CADMIUM, DIS-SOLVED (UG/L AS CU)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)
JUN 20...	1515	4	2	100	100	1	0	0	0
SEP 24...	1300	1	1	0	100	0	<1	0	10

DATE	CORAL-T, TOTAL RECOV-ERABLE (UG/L AS CO)	CORAL-T, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
JUN 20...	4	2	2	1	50	10	18	1	0
SEP 24...	0	<3	4	1	40	<10	2	0	20

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY, DIS-SOLVED (UG/L AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN 20...	0	.1	.1	0	0	0	0	10	10
SEP 24...	4	.1	.1	0	0	0	0	10	5

DATE	TIME	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	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, EXTRACTION (UG/L)
JUN 20...	1515	<1.0	<.3	<1.4	<.4	.9	<.4	6.2	<.4	.02	.20

11477000 EEL RIVER AT SCOTIA, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	MAY 16,79 1430	JUN 20,79 1515	JUL 17,79 1330	AUG 22,79 1430	SEP 24,79 1300
TOTAL CELLS/ML	56	270	7100	1300	1400
DIVERSITY: DIVISION	0.8	1.0	1.5	0.8	0.5
..CLASS	0.8	1.0	1.5	0.8	0.5
..ORDER	1.5	1.6	1.6	1.6	1.0
...FAMILY	2.0	2.6	1.9	2.1	1.1
....GENUS	2.0	2.6	1.9	2.1	1.9

ORGANISM	CELLS /ML	PER- CENT								
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
..CHLOROCOCCALES										
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	710	10	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	14#	25	--	-	220	3	39	3	43	3
....SELENASTRUM	--	-	26	10	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-	29	2
...SCENEDESMACEAE										
....SCENEDESMUS	--	-	100#	38	300	4	130	10	86	6
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	39	14	37	1	--	-	--	-
CHRYSOPHYTA										
..BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCAEAE										
....CYCLOTELLA	14#	25	13	5	3200#	45	13	1	--	-
....MELOSIRA	--	-	--	-	--	-	13	1	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	13	5	--	-	--	-	--	-
...CYMBELLACEAE										
....CYMBELLA	14#	25	--	-	--	-	--	-	--	-
....EPITHEMIA	--	-	26	10	110	2	13	1	--	-
...NAVICULACEAE										
....NAVICULA	14#	25	26	10	--	-	--	-	--	-
...NITZSCHIAEAE										
....NITZSCHIA	--	-	26	10	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
....CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	13	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
....CHROOCOCCACEAE										
....ANACYSTIS	--	-	--	-	2600#	36	450#	34	400#	28
....GOMPHOSPHAERIA	--	-	--	-	--	-	--	-	720#	51
...HORMOGONALES										
....NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	150	12	--	-
...OSCILLATORIAEAE										
....OSCILLATORIA	--	-	--	-	--	-	520#	38	140	10

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

DATE	TIME	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/50 M	PERI- PHYTON BIOMASS W/IGHT G/50 M	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	CHLUR-B PERI- PHYTON CHKOMO- GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS)
JUN 23...	1045	22	83.5	72.8	--	5.91	--
AUG 22...	1430	51	11.6	10.0	4.54	1.05	352
SEP 24...	1300	33	2.20	1.81	2.53	1.28	154

EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	---	256	---
2									---	235	242	---
3									---	237	263	258
4									---	---	270	258
5									---	---	---	255
6									---	239	---	234
7									---	243	251	265
8									---	---	263	---
9									---	233	249	242
10									---	232	225	248
11									---	230	270	---
12									---	242	---	273
13									---	247	258	253
14									---	---	---	264
15									---	---	274	---
16									---	244	257	266
17									---	---	273	265
18									---	252	249	280
19									---	260	---	267
20									---	258	276	275
21									---	257	275	---
22									---	257	268	---
23									---	219	262	---
24									---	220	261	---
25									---	227	---	267
26									---	223	257	---
27									---	229	267	272
28									---	243	---	285
29									---	232	249	278
30									---	231	258	---
31									---	246	---	---
MEAN									---	228	248	262
WTR YR 1979	MEAN	255		MAX	285		MIN	219				

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	18.0	12.0	9.0	11.5	10.5	5.0	3.0	6.0	4.0	7.0	6.0
2	22.5	17.0	12.0	9.5	10.5	9.5	5.0	4.0	4.5	4.0	6.0	6.0
3	22.0	18.0	12.5	9.5	11.0	9.5	6.0	4.5	5.0	4.5	7.0	6.0
4	20.5	18.5	12.5	11.0	10.0	9.0	7.5	6.0	5.5	5.0	8.0	7.0
5	21.5	18.0	13.5	10.5	9.0	7.5	8.0	7.0	6.0	5.5	9.5	8.0
6	19.5	18.5	12.0	12.0	8.5	6.5	7.5	6.5	6.0	6.0	11.0	9.5
7	20.5	17.0	13.0	12.0	7.5	5.5	8.0	7.0	6.0	6.0	10.5	10.0
8	21.5	18.0	13.5	11.0	7.0	5.0	9.0	8.0	6.0	6.0	11.0	10.0
9	21.5	19.0	13.0	10.0	7.5	6.5	9.0	8.0	6.0	6.0	11.0	9.5
10	21.5	18.5	10.5	8.0	9.0	7.0	9.0	8.5	9.5	6.0	11.0	10.0
11	21.5	18.0	9.0	6.5	9.5	9.0	9.5	8.5	9.5	9.5	11.0	10.0
12	21.5	17.5	9.0	6.0	9.5	8.5	9.0	9.0	9.5	9.0	12.0	10.0
13	21.5	17.0	8.5	6.0	10.0	9.0	9.0	8.0	9.0	9.0	11.5	10.5
14	20.5	18.0	8.5	6.0	9.5	8.5	8.0	7.5	9.0	9.0	11.0	10.5
15	21.0	18.5	7.5	6.0	10.0	8.0	---	---	9.0	9.0	10.5	9.5
16	20.5	19.0	9.5	7.5	8.5	7.0	---	---	9.0	9.0	9.5	9.0
17	21.0	18.0	11.0	9.0	8.0	7.0	---	---	9.0	9.0	9.5	8.5
18	20.5	17.5	12.0	10.0	8.0	7.0	---	---	9.0	9.0	9.5	9.0
19	18.5	17.5	12.0	10.0	7.5	6.5	---	---	9.0	9.0	10.5	9.0
20	18.5	17.0	11.0	10.5	6.5	5.5	---	---	9.0	9.0	11.5	10.0
21	19.5	16.5	11.0	10.0	6.5	5.0	---	---	9.0	9.0	11.0	10.5
22	18.5	15.5	11.5	10.0	7.5	6.5	---	---	9.0	9.0	11.5	10.0
23	18.0	14.5	11.0	10.0	9.0	7.0	---	---	9.0	8.5	12.5	10.0
24	17.5	14.5	11.0	9.5	9.0	7.5	---	---	8.5	8.5	13.0	10.5
25	17.5	14.5	11.0	9.5	9.5	8.0	---	---	8.5	8.5	13.0	11.0
26	17.5	15.0	11.0	9.5	9.0	7.5	---	---	8.5	8.5	12.5	11.5
27	17.0	15.0	10.5	9.0	9.0	8.0	---	---	8.5	6.5	11.5	10.0
28	15.0	14.0	11.0	9.5	9.0	7.5	---	---	7.0	7.0	10.5	9.0
29	15.0	12.5	11.5	11.0	7.5	5.5	---	---	---	---	11.0	9.5
30	14.0	11.5	12.0	11.5	5.5	4.0	---	---	---	---	11.0	9.5
31	13.5	10.5	---	---	5.0	3.0	---	---	---	---	11.5	10.0
MONTH	22.5	10.5	13.5	6.0	11.5	3.0	9.5	3.0	9.5	4.0	13.0	6.0

11477000 EEL RIVER AT SCOTIA, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.5	10.5	14.5	13.5	22.5	19.0	20.5	18.0	25.5	20.5	22.5	20.0
2	12.0	10.5	16.0	13.5	23.5	19.0	21.0	16.0	24.5	21.0	23.0	20.0
3	13.0	11.0	16.5	15.0	23.0	20.0	22.0	16.5	24.5	20.0	24.0	21.0
4	14.0	11.5	16.5	15.5	22.5	19.0	23.5	19.0	24.5	20.0	24.5	20.5
5	14.0	13.0	16.0	14.5	22.0	18.5	24.0	19.0	24.5	20.0	24.5	20.0
6	14.0	12.5	14.5	12.0	20.5	17.5	24.5	19.5	24.5	19.5	24.5	20.0
7	14.0	12.5	12.0	11.0	20.5	16.5	24.5	19.5	24.0	20.0	25.0	20.0
8	14.0	13.5	11.0	10.5	21.5	16.5	25.5	20.5	24.0	19.5	25.5	22.0
9	13.5	12.5	12.5	11.0	22.5	18.5	23.0	20.5	23.5	19.5	24.0	21.0
10	12.5	12.0	14.5	12.0	23.5	19.5	23.0	20.0	22.5	19.0	24.0	19.5
11	13.0	11.5	15.5	13.0	22.5	19.5	25.0	20.0	23.0	18.0	24.5	19.5
12	13.5	12.0	16.5	14.5	21.0	18.5	24.5	20.0	20.0	18.0	25.0	19.5
13	15.0	12.5	17.5	15.0	20.0	16.5	24.0	19.0	21.5	17.0	25.0	21.0
14	15.0	13.0	17.5	16.0	20.5	16.5	23.5	18.5	23.0	17.0	25.0	21.5
15	16.0	14.0	17.0	16.0	19.5	17.0	25.0	20.0	23.5	19.0	25.0	21.5
16	15.0	13.5	16.5	15.5	18.5	16.5	26.0	21.0	24.5	19.5	25.0	21.0
17	13.5	12.5	18.5	16.0	20.5	16.5	25.5	20.5	25.0	19.5	24.5	20.5
18	13.5	12.0	19.0	16.5	20.5	17.0	25.5	21.0	25.0	19.5	24.5	20.0
19	13.5	11.5	20.0	17.0	21.5	17.5	25.0	21.0	22.0	20.5	25.0	21.5
20	14.5	11.5	20.5	18.0	21.0	18.0	25.5	21.5	23.0	18.5	23.0	21.0
21	15.0	12.5	20.5	19.5	21.0	18.0	25.5	21.5	22.5	19.0	21.5	19.5
22	16.0	13.5	19.5	17.5	21.0	17.0	26.0	21.0	22.5	18.5	22.0	19.5
23	15.0	13.0	20.0	18.0	22.0	17.5	27.0	21.5	24.0	18.5	24.0	19.0
24	14.5	12.5	19.5	17.5	22.5	19.0	26.5	21.5	24.5	19.5	24.0	19.0
25	15.0	13.0	22.0	18.5	22.0	19.0	25.5	21.0	24.0	20.5	23.0	20.0
26	15.0	14.0	20.5	18.5	22.5	19.0	24.5	21.0	25.0	20.0	23.5	19.5
27	15.0	13.5	18.5	16.5	22.5	18.5	22.0	20.5	23.5	20.5	21.5	20.0
28	15.5	13.5	18.0	16.0	21.0	18.5	24.0	19.5	24.0	20.0	23.5	19.5
29	14.5	14.0	19.0	16.0	22.5	17.5	25.0	19.5	22.0	20.5	22.5	19.0
30	15.0	14.5	20.0	16.0	22.0	19.0	25.5	20.5	23.0	20.0	23.0	19.5
31	---	---	22.0	17.5	---	---	25.0	20.5	24.0	18.5	---	---
MONTH	16.0	10.5	22.0	10.5	23.5	16.5	27.0	16.0	25.5	17.0	25.5	19.0
YEAR	27.0	3.0										

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	180	1	.49	136	2	.73	497	36	51
2	180	1	.49	132	1	.36	538	13	19
3	180	2	.97	132	1	.36	538	5	7.3
4	175	4	1.9	132	1	.36	591	7	11
5	170	3	1.4	132	1	.36	538	8	12
6	166	3	1.3	132	1	.36	465	3	3.8
7	161	3	1.3	128	1	.35	404	4	4.4
8	161	2	.87	128	1	.35	362	3	2.9
9	157	2	.85	128	1	.35	335	2	1.8
10	152	2	.82	140	1	.38	329	1	.89
11	152	2	.82	148	2	.80	317	1	.86
12	148	2	.80	166	32	16	329	2	1.8
13	148	1	.40	144	6	2.3	348	4	3.8
14	148	1	.40	140	2	.76	342	4	3.7
15	148	1	.40	144	2	.78	329	3	2.7
16	148	1	.40	144	1	.39	323	3	2.6
17	152	1	.41	144	1	.39	369	7	7.0
18	157	1	.42	148	1	.40	434	8	9.4
19	170	1	.46	170	2	.92	582	6	9.4
20	170	1	.46	248	2	1.3	655	2	3.5
21	166	1	.45	457	5	6.2	609	2	3.3
22	166	2	.90	582	6	9.4	564	2	3.0
23	157	1	.42	556	2	3.0	481	2	2.6
24	148	2	.80	489	2	2.6	412	2	2.2
25	148	3	1.2	404	2	2.2	383	1	1.0
26	148	5	2.0	348	2	1.9	362	1	.98
27	144	4	1.6	310	2	1.7	348	1	.94
28	144	3	1.2	287	2	1.5	335	1	.90
29	144	3	1.2	293	2	1.6	325	1	.88
30	136	3	1.1	310	6	5.0	314	1	.85
31	136	3	1.1	---	---	---	305	1	.82
TOTAL	4860	---	27.33	6952	---	63.10	13063	---	176.32

EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	293	1	.79	1200	5	16	46200	1060	134000
2	281	1	.76	1170	4	13	28100	500	37900
3	273	1	.74	1100	4	12	22600	320	17100
4	265	1	.72	1020	4	11	22300	280	16900
5	270	1	.73	983	4	11	18700	190	9590
6	277	1	.75	959	4	10	16700	170	7670
7	286	2	1.5	929	3	7.5	16500	192	8550
8	422	40	46	908	3	7.4	15700	202	8560
9	2350	139	1100	904	3	7.3	14000	172	6500
10	4080	241	2790	919	3	7.4	11500	173	5370
11	51200	2700	515000	1110	5	15	10200	173	4760
12	46300	1890	284000	1680	10	45	9570	168	4340
13	15800	580	236000	32700	1330	173000	8400	152	3450
14	11800	383	12600	55500	1470	232000	7540	125	2540
15	18400	657	32800	25100	650	44100	8210	113	2500
16	12500	280	9450	29900	770	62200	9600	143	3710
17	7520	153	3110	25600	600	41500	9410	168	4270
18	5660	105	1600	33000	1200	129000	8040	110	2390
19	4420	67	800	39300	990	105000	7310	84	1660
20	3590	40	388	22100	380	22700	6880	64	1190
21	3020	27	220	34100	872	82000	5970	50	806
22	2700	20	146	31100	470	39500	5250	38	539
23	2440	15	99	33400	520	46900	4700	32	406
24	2220	11	66	25900	330	23100	4300	26	302
25	2070	12	67	18400	220	10900	4040	24	262
26	1890	9	46	19700	280	14900	3990	22	237
27	1720	8	37	19000	310	15900	8700	205	9250
28	1580	7	30	22400	480	35100	31500	924	80400
29	1460	6	24	22400	---	---	18400	270	49700
30	1360	5	18	---	---	---	12800	170	5880
31	1270	4	14	---	---	---	9670	123	3210
TOTAL	207717	---	1100457	480082	---	1077963	406780	---	433942
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	7850	91	1930	5400	31	452	1630	4	18
2	6910	64	1190	4600	22	273	1520	4	16
3	6190	45	752	4120	14	156	1430	3	12
4	5620	35	531	3890	12	126	1360	3	11
5	5140	30	416	5340	34	620	1290	3	10
6	4990	27	364	12200	270	8890	1220	3	9.9
7	4780	24	310	21100	570	32500	1180	3	9.6
8	4400	22	261	23500	480	30500	1130	3	9.2
9	4210	21	239	16700	206	9290	1080	3	8.7
10	4100	21	232	12400	112	3750	1030	4	11
11	4760	36	463	9900	85	2270	960	4	10
12	4440	21	252	8520	76	1750	892	4	9.6
13	4100	16	177	7530	66	1340	848	4	9.2
14	3850	17	177	6760	45	821	815	4	8.8
15	3690	18	179	6140	38	630	774	4	8.4
16	3810	21	216	5610	35	530	743	4	8.0
17	5290	62	886	4990	28	377	753	3	6.1
18	5420	48	702	4490	20	242	713	3	5.8
19	4490	23	279	4150	16	179	703	3	5.7
20	3930	14	149	3860	13	135	693	3	5.6
21	3600	10	97	3570	10	96	703	3	5.7
22	3410	9	83	3330	9	81	684	3	5.5
23	3630	13	127	3150	8	68	655	3	5.3
24	7020	160	3030	2880	7	54	646	3	5.2
25	7120	123	2360	2650	6	43	609	3	4.9
26	5530	53	791	2430	6	39	582	3	4.7
27	6560	49	868	2240	6	36	564	3	4.6
28	7190	70	1360	2090	6	34	538	3	4.4
29	5830	36	567	1980	5	27	513	3	4.2
30	5830	45	708	1860	4	20	497	3	4.0
31	---	---	---	1760	4	19	---	---	---
TOTAL	153690	---	19696	199140	---	95348	26755	---	241.1

11477000 EEL RIVER AT SCOTIA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	481	2	2.6	178	1	.48	139	1	.38
2	465	2	2.5	174	1	.47	164	1	.44
3	449	2	2.4	168	1	.45	188	1	.51
4	442	2	2.4	165	1	.45	204	3	1.7
5	427	2	2.3	160	1	.43	198	2	1.1
6	419	2	2.3	155	1	.42	195	1	.53
7	412	2	2.2	156	1	.42	184	1	.50
8	404	2	2.2	148	1	.40	174	1	.47
9	397	2	2.1	142	1	.38	162	1	.44
10	412	2	2.2	140	1	.38	152	1	.41
11	434	2	2.3	142	1	.38	145	1	.39
12	427	2	2.3	140	1	.38	141	1	.38
13	397	1	1.1	132	1	.36	136	1	.37
14	383	1	1.0	129	1	.35	130	1	.35
15	362	1	.98	128	1	.35	125	1	.34
16	342	1	.92	130	1	.35	121	1	.33
17	329	1	.89	126	1	.34	118	1	.32
18	312	1	.84	128	1	.35	115	1	.31
19	292	1	.79	132	1	.36	112	1	.30
20	286	1	.77	136	1	.37	108	1	.29
21	275	1	.74	138	1	.37	103	1	.28
22	262	1	.71	138	1	.37	103	1	.28
23	248	1	.67	136	1	.37	100	1	.27
24	244	1	.66	133	1	.36	96	1	.26
25	232	1	.63	131	1	.35	98	1	.26
26	223	1	.60	133	1	.36	102	1	.28
27	212	1	.57	128	1	.35	113	1	.31
28	207	1	.56	127	1	.34	113	1	.31
29	204	1	.55	131	1	.35	112	1	.30
30	196	1	.53	137	1	.37	110	1	.30
31	187	1	.50	136	1	.37	---	---	---
TOTAL	10362	---	41.81	4377	---	11.83	4061	---	12.71
YEAR	1517839		2727980						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPERATURE WATER (DEG C)	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. FALL DIAM. % FINER THAN	SED. SUSP. FALL DIAM. % FINER THAN				
						.002 MM	.004 MM	.008 MM	.016 MM	.031 MM				
JAN 11...	1650	10.5	82000	4150	574000	--	33	45	59	73				
FEB 14...	1720	9.0	48600	1120	168000	27	36	47	60	72				
FEB 27...	1530	8.5	18000	289	14800	30	38	47	56	64				
APR 03...	1320	12.0	6170	43	719	--	--	--	--	--				
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. FALL DIAM. % FINER THAN 1.00 MM
JAN 11...						83	--	92	--	97	--	99	--	100
FEB 14...						82	--	90	--	99	--	100	--	--
FEB 27...						--	69	--	74	--	84	--	100	--
APR 03...						--	61	--	66	--	76	--	100	--

EEL RIVER BASIN

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA

LOCATION.--Lat 40°28'50", long 123°53'23", in NE¼SE¼ 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 (1.4 km) upstream from Grizzly Creek, and 5 mi (8 km) west of Bridgeville.

DRAINAGE AREA.--222 mi² (575 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 358.18 ft (109.173 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1965, at site 2.4 mi (3.9 km) upstream at different datum.

REMARKS.--Records good. No storage or large diversion above station.

AVERAGE DISCHARGE.--29 years, 884 ft³/s (25.03 m³/s), 640,500 acre-ft/yr (790 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft³/s (1,380 m³/s) Dec. 22, 1964, gage height, 24.0 ft (7.32 m), from floodmarks, present site and datum, from rating curve extended above 20,000 ft³/s (566 m³/s) on basis of slope-area measurement at gage height 21.3 ft (6.49 m), former site and datum; minimum, 4.6 ft³/s (0.13 m³/s) Aug. 8, 13-24, Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,100 ft³/s (286 m³/s) Feb. 13, gage height, 11.47 ft (3.496 m), no peak above base of 15,000 ft³/s (425 m³/s); minimum daily, 8.8 ft³/s (0.25 m³/s) Sept. 27-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	13	524	42	158	2780	699	555	134	43	15	12
2	18	13	251	41	146	2020	596	498	128	42	15	14
3	18	13	144	42	134	2800	530	442	120	41	14	18
4	16	13	105	43	130	2490	467	403	115	41	14	19
5	16	13	147	49	132	2180	437	1380	108	39	14	18
6	16	13	125	54	134	2260	427	2370	103	38	14	17
7	16	13	93	54	147	2160	391	3350	99	37	13	16
8	16	13	75	263	148	1880	352	2380	96	36	13	15
9	16	13	67	990	145	1630	362	1670	92	35	13	14
10	15	13	66	1160	183	1410	424	1340	85	44	13	13
11	14	13	76	7210	460	1300	1370	1120	81	59	13	13
12	14	13	147	3460	627	1170	870	962	78	49	12	13
13	14	14	127	1610	7860	1050	748	833	75	41	12	11
14	14	14	99	1620	3830	969	611	724	75	37	12	11
15	13	15	82	1400	2460	1300	512	628	73	34	12	10
16	13	15	72	943	2420	1310	935	539	72	31	12	10
17	13	17	81	730	2000	1130	1480	461	76	29	11	9.6
18	13	18	89	615	3060	994	1060	400	78	26	11	9.6
19	13	22	74	498	2360	950	836	340	75	26	11	9.6
20	13	94	64	430	2060	841	701	300	72	25	11	9.2
21	13	184	59	388	2230	751	596	278	68	23	11	9.2
22	13	118	58	358	2320	682	537	258	66	22	12	9.2
23	13	80	59	312	2210	613	591	240	61	21	12	9.2
24	13	61	60	279	1770	560	891	222	59	20	12	9.2
25	13	50	60	275	1630	523	666	210	55	20	12	9.2
26	13	44	62	230	2570	506	743	197	52	19	11	9.2
27	13	39	61	213	1840	1840	1130	186	50	18	11	8.8
28	13	36	59	207	3530	2120	866	172	48	18	11	8.8
29	13	40	56	188	---	1230	726	160	45	17	11	8.8
30	13	77	50	178	---	972	627	152	44	17	11	8.8
31	13	---	44	167	---	805	---	143	---	16	11	---
TOTAL	443	1094	3136	24049	46694	43226	21181	22913	2383	964	380	352.4
MEAN	14.3	36.5	101	776	1668	1394	706	739	79.4	31.1	12.3	11.7
MAX	19	184	524	7210	7860	2800	1480	3350	134	59	15	19
MIN	13	13	44	41	130	506	352	143	44	16	11	8.8
AC-FT	879	2170	6220	47700	92620	85740	42010	45450	4730	1910	754	699
CAL YR 1978	TOTAL	308666.0	MEAN	846	MAX	13800	MIN	11	AC-FT	612200		
WTR YR 1979	TOTAL	166815.4	MEAN	457	MAX	7860	MIN	8.8	AC-FT	330900		

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958 to current year.

CHEMICAL ANALYSES: Water years 1958 to current year.

WATER TEMPERATURES: Water years 1961 to May 1979 (discontinued).

SEDIMENT RECORDS: Water years 1955-67.

TURBIDITY: Water years 1964-67.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1960 to May 1979.

INSTRUMENTATION.--Temperature recorder since December 1960.

COOPERATION.--Chemical-quality records were furnished by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 29.5°C July 1, 2, 1967; minimum recorded, 0.0°C Dec. 14, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 20.5°C Oct. 2, 13; minimum for period recorded, 1.0°C Dec. 30-31, Jan. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT								
03...	0930	18	261	7.9	16.0	.00	10.1	103
NOV								
07...	1030	13	276	8.2	11.5	1.0	11.0	102
DEC								
06...	0850	130	221	7.6	4.5	6.0	12.5	97
JAN								
03...	0905	42	239	7.5	4.0	.00	12.6	97
FEB								
14...	1230	3660	95	7.5	8.5	120	11.9	103
MAR								
13...	1525	1040	118	7.5	12.5	9.0	10.5	99
APR								
04...	0850	551	139	7.7	10.0	3.0	11.0	98
MAY								
08...	1100	2330	115	7.3	10.0	34	11.6	104
JUN								
06...	1020	116	190	8.0	18.5	1.0	9.4	101
JUL								
10...	0915	39	229	8.0	20.0	.00	9.2	102
AUG								
08...	0955	13	273	8.2	20.0	1.0	9.1	101
SEP								
04...	1215	19	266	8.2	22.5	1.0	9.4	109

11480400 RUTH RESERVOIR NEAR FOREST GLEN, CA

LOCATION.--Lat 40°22'08", long 123°25'56", in NW¼NW¼ 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 (9.0 km) west of Forest Glen.

DRAINAGE AREA.--121 mi² (313 km²).

PERIOD OF RECORD.--October 1966 to current year. Records prior to October 1966 in files of Humboldt Bay Municipal Water District.

GAGE.--Water-stage recorder. Datum of gage is 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 (63.9 hm³) at elevation 2,654.0 ft (808.94 m), crest of spillway. Water is released down Mad River for municipal use. Records given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 66,400 acre-ft (81.9 hm³) Feb. 14, 1975, elevation, 2,665.98 ft (812.591 m); minimum, 11,700 acre-ft (14.4 hm³) Oct. 24-28, 1977; minimum elevation, 2,607.13 ft (794.653 m) Oct. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 54,700 acre-ft (67.4 hm³) Feb. 28; maximum elevation, 2,656.60 ft (809.732 m) Feb. 28; minimum contents, 22,500 acre-ft (27.7 hm³) Jan. 6-8; minimum elevation, 2,623.08 ft (799.514 m) Jan. 8.

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

2595	6670	2640	37300
2600	8520	2645	42300
2605	10700	2650	47400
2610	13300	2655	52900
2615	16500	2660	58700
2620	20100	2665	65000
2625	23900	2670	72300
2630	27800	2675	80300
2635	32500		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36600	30300	25700	22800	36500	54300	52700	52500	52100	50400	45600	39100
2	36400	30100	25700	22700	36500	53800	52600	52600	52100	50300	45400	38800
3	36200	29900	25600	22600	36600	53900	52500	52500	52000	50200	45200	38600
4	36000	29700	25600	22600	36600	54200	52600	52500	52000	50000	45000	38400
5	35800	29500	25500	22600	36600	54200	52500	52900	52000	49900	44800	38200
6	35600	29400	25400	22500	36700	54300	52400	53600	51900	49800	44600	38000
7	35400	29200	25200	22500	36700	54200	52400	54000	51900	49600	44400	37700
8	35200	28900	25100	22500	36700	54000	52300	53800	51900	49500	44200	37500
9	35000	28700	25000	22900	36800	53700	52200	53500	51900	49400	44000	37200
10	34800	28600	24800	23200	36800	53500	52300	53400	51800	49300	43800	37000
11	34600	28400	24700	26000	36900	53200	52300	53200	51800	49100	43500	36800
12	34500	28300	24600	30200	37900	53000	52300	53100	51700	49000	43300	36600
13	34300	28100	24600	31300	42700	52800	52300	53000	51700	48800	43100	36400
14	34000	27900	24500	32400	45300	52700	52400	52900	51600	48700	42900	36100
15	33800	27800	24400	33500	46700	52800	52300	52800	51600	48600	42700	35900
16	33600	27600	24300	34400	48000	52900	52300	52700	51500	48400	42500	35700
17	33500	27400	24300	34600	49300	52900	52300	52700	51400	48300	42300	35400
18	33200	27300	24200	35000	51300	52800	52300	52600	51400	48100	42100	35200
19	33200	27200	24100	35200	52800	52800	52300	52600	51400	48000	41900	35000
20	33200	27100	24100	35400	53600	52800	52400	52500	51300	47800	41700	34700
21	33200	27000	24000	35600	53600	52800	52400	52500	51300	47600	41500	34500
22	33200	26800	23900	35800	53400	52700	52300	52500	51200	47500	41200	34300
23	33200	26700	23900	36000	53100	52600	52400	52400	51200	47300	41000	34100
24	32000	26600	23700	36000	52900	52600	52600	52400	51100	47100	40800	33900
25	31800	26500	23600	36100	52900	52500	52600	52400	51100	47000	40600	33600
26	31600	26400	23500	36200	53200	52500	52700	52300	51000	46800	40400	33400
27	31400	26300	23400	36300	53100	53200	52700	52300	50800	46500	40100	33200
28	31200	26100	23300	36300	54700	53300	52700	52200	50700	46300	39900	33000
29	30900	26000	23100	36400	---	53100	52600	52200	50600	46100	39700	32800
30	30700	25900	23000	36400	---	52900	52600	52200	50500	46000	39500	32600
31	30500	---	22900	36500	---	52800	---	52100	---	45800	39200	---
MAX	36600	30300	25700	36500	54700	54300	52700	54000	52100	50400	45600	39100
MIN	30500	25900	22900	22500	36500	52500	52200	52100	50500	45800	39200	32600
(†)	2632.98	2627.55	2623.65	2639.11	2656.37	2654.85	2654.68	2654.29	2652.82	2648.42	2641.91	2635.11
(‡)	-6300	-4600	-3000	+13,600	+18,200	-1900	-200	-500	-1600	-4700	-6600	-6600

CAL Yr 1978 † -30,300
WTR R 1979 ‡ -4,200

† Elevation, in feet, at end of month.
‡ Change, in contents, in acre-feet.

MAD RIVER BASIN

11480500 MAD RIVER NEAR FOREST GLEN, CA

LOCATION.--Lat 40°27'30", long 123°30'35", in SW¼ sec.16, T.1 N., R.6 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, on right bank 0.7 mi (1.1 km) downstream from Lamb Creek, and 11.1 mi (17.9 km) northwest of Forest Glen.

DRAINAGE AREA.--143 mi² (370 km²).

WATER-DISCHARGE RECORDS

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 (734.013 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 22, 1955, water-stage recorder at site 0.7 mi (1.1 km) upstream at different datum. Jan. 13 to June 18, 1956, nonrecording gage at former site at datum 4.17 ft (1.271 m) lower than former datum.

REMARKS.--Records good. Flow regulated by Ruth Reservoir (station 11480400), 9 mi (14 km) upstream, beginning in July 1961. No diversion above station.

AVERAGE DISCHARGE.--26 years, 373 ft³/s (10.56 m³/s), 270,200 acre-ft/yr (333 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,200 ft³/s (1,110 m³/s) Dec. 22, 1955, gage height, 24.5 ft (7.468 m) present datum, from floodmarks, from rating curve extended above 8,100 ft³/s (229 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.60 ft³/s (0.017 m³/s) Sept. 15, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,140 ft³/s (60.6 m³/s) Mar. 1, gage height, 6.70 ft (2.042 m); minimum daily, 16 ft³/s (0.45 m³/s) Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	93	77	64	18	1950	362	190	94	63	93	102
2	91	95	42	59	18	1410	318	177	87	63	93	102
3	92	94	38	43	18	1290	278	168	81	62	93	102
4	91	94	37	34	18	1420	258	159	75	67	93	102
5	91	93	44	33	17	1460	235	268	70	74	93	102
6	91	93	61	33	18	1600	219	582	66	74	93	102
7	91	93	60	34	17	1650	204	1070	62	74	93	102
8	91	93	60	60	16	1480	189	1080	58	74	93	102
9	93	93	60	47	17	1250	178	877	56	75	98	101
10	93	93	60	58	17	1050	164	691	54	75	99	100
11	93	93	61	298	18	879	167	551	53	75	99	101
12	93	93	57	103	137	748	160	455	53	75	100	101
13	93	91	44	64	493	636	154	378	52	75	100	101
14	93	86	46	96	172	474	147	326	49	74	100	101
15	93	86	46	91	112	455	142	278	49	74	100	101
16	93	85	46	56	131	507	158	251	48	75	99	100
17	93	85	49	41	124	507	182	231	50	79	99	101
18	93	85	44	34	227	483	180	208	48	79	98	101
19	93	88	36	28	208	469	172	192	48	79	98	101
20	93	89	35	26	619	424	162	180	46	79	98	101
21	94	86	35	25	1100	378	153	164	45	79	98	101
22	93	85	35	24	1150	346	149	150	45	79	98	100
23	93	74	44	23	1020	307	170	137	44	79	101	101
24	93	74	64	22	873	275	216	126	44	86	102	100
25	93	72	64	21	807	248	222	123	47	91	102	100
26	93	72	63	21	973	238	248	119	64	91	102	100
27	93	74	62	20	960	581	261	105	64	91	102	100
28	93	85	64	20	1450	754	241	99	63	91	102	100
29	93	85	64	19	---	641	225	98	63	91	102	100
30	91	86	64	18	---	521	206	113	63	93	102	100
31	93	---	64	18	---	429	---	101	---	93	104	---
TOTAL	2868	2608	1626	1533	10748	24860	6120	9647	1741	2429	3047	3028
MEAN	92.5	86.9	52.5	49.5	384	802	204	311	58.0	78.4	98.3	101
MAX	94	95	77	298	1450	1950	362	1080	94	93	104	102
MIN	91	72	35	18	16	238	142	98	44	62	93	100
AC-FT	5690	5170	3230	3040	21320	49310	12140	19130	3450	4820	6040	6010
CAL YR 1978	TOTAL	165694	MEAN 454	MAX 7560	MIN 35	AC-FT 328700						
WTR YR 1979	TOTAL	70255	MEAN 192	MAX 1950	MIN 16	AC-FT 139400						

MAD RIVER BASIN

11480500 MAD RIVER NEAR FOREST GLEN, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to February 1979 (discontinued).

CHEMICAL ANALYSES: Water years 1971-74, 1977.

WATER TEMPERATURES: Water years 1961 to February 1979 (discontinued).

SEDIMENT RECORDS: Water years 1957-74.

TURBIDITY: Water years 1964-67, 1971-74.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1960 to February 1979.

INSTRUMENTATION.--Temperature recorder since November 1960.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 26.0°C June 25, 1961, June 29, 1977; minimum recorded, 0.0°C Jan. 5, 6, 1968.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 17.5°C Oct. 1; minimum for period recorded, 1.0°C Feb 2.

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO FEBRUARY 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	15.0	13.5	12.0	9.0	8.0	3.5	2.0	2.5	2.0		
2	17.0	14.5	13.0	11.5	8.0	7.0	4.5	3.0	3.0	1.0		
3	17.0	14.5	13.0	11.5	7.0	6.0	5.0	4.0	3.5	1.5		
4	17.0	14.5	13.0	12.0	7.5	6.0	5.5	4.5	4.5	2.5		
5	17.0	15.0	13.5	12.0	7.0	6.0	6.0	5.0	6.0	4.0		
6	17.0	15.0	13.5	11.5	6.0	5.0	5.5	4.0	7.0	5.5		
7	16.0	14.0	13.5	12.0	5.0	3.5	5.5	4.5	---	---		
8	16.5	14.5	13.0	11.5	5.0	3.5	5.5	5.0	---	---		
9	16.5	14.5	13.0	11.0	6.5	5.0	6.5	5.5	---	---		
10	16.5	14.5	11.0	8.5	8.0	6.5	7.0	6.5	---	---		
11	16.5	14.5	9.0	7.5	8.0	7.5	8.5	7.0	---	---		
12	17.0	15.0	8.5	8.0	7.5	6.0	8.0	7.0	---	---		
13	17.0	15.0	9.5	8.0	6.5	5.0	7.0	6.0	---	---		
14	16.5	15.0	9.5	8.0	6.0	5.5	6.0	4.5	---	---		
15	16.5	15.0	9.0	7.5	5.5	4.0	6.0	5.0	---	---		
16	16.5	15.0	10.0	9.0	5.0	3.5	5.5	4.5	---	---		
17	16.5	14.5	11.0	10.0	4.5	3.5	5.0	3.5	---	---		
18	16.5	14.5	10.0	9.5	5.0	4.0	5.0	4.0	---	---		
19	15.5	14.5	10.5	9.5	4.5	3.5	5.5	4.5	---	---		
20	16.0	14.5	10.5	9.5	4.0	2.5	5.5	4.0	---	---		
21	16.0	14.5	10.0	9.5	4.0	3.0	5.5	4.5	---	---		
22	16.0	14.5	9.5	8.0	5.0	3.5	5.5	4.5	---	---		
23	16.0	14.0	9.0	7.5	5.5	4.0	5.0	3.5	---	---		
24	16.0	14.5	8.5	7.5	5.5	4.5	5.0	4.5	---	---		
25	16.0	14.5	8.0	6.5	5.0	4.0	4.5	3.5	---	---		
26	15.5	14.0	8.0	7.0	5.0	4.0	4.0	2.5	---	---		
27	15.0	13.5	8.0	6.5	6.0	4.5	4.5	3.0	---	---		
28	14.5	13.0	9.5	7.0	5.0	4.0	3.5	2.0	---	---		
29	14.0	13.0	10.5	9.5	4.0	3.0	3.0	1.5	---	---		
30	13.0	11.5	10.0	9.0	3.0	2.0	3.0	2.5	---	---		
31	13.5	11.5	---	---	3.0	2.0	3.0	2.0	---	---		
MONTH	17.5	11.5	13.5	6.5	9.0	2.0	8.5	1.5	7.0	1.0		

11481000 MAD RIVER NEAR ARCATA, CA

LOCATION.--Lat 40°54'35", long 124°03'35", in NW¼ sec.15, T.6 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on right bank 100 ft (30 m) upstream from bridge on U.S. Highway 299, 1.0 mi (1.6 km) downstream from Warren Creek, and 2.8 mi (4.5 km) northeast of Arcata.

DRAINAGE AREA.--485 mi² (1,256 km²).

WATER-DISCHARGE RECORDS

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 (3.898 m) National Geodetic Vertical Datum of 1929. December 1910 to September 1913, nonrecording gage at site 0.1 mi (0.2 km) upstream at different datum. Aug. 15, 1950, to July 23, 1956, water-stage recorder at site 0.6 mi (1.0 km) upstream at datum 11.00 ft (3.353 m) higher. July 24, 1956, to Apr. 9, 1965, water-stage recorder at datum 5.00 ft (1.524 m) higher. Aug. 29 to Oct. 26, 1961, auxiliary water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good except those for summer months, which are fair. Flow regulated by Ruth Reservoir (station 11480400), 6.8 mi (10.9 km) upstream, beginning in July 1961. Water is diverted 0.5 mi (0.8 km) upstream from station for municipal supply and industrial use in Humboldt Bay area.

AVERAGE DISCHARGE (adjusted for diversions).--32 years, 1,491 ft³/s (42.23 m³/s), 1,080,000 acre-ft/yr (1.33 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,000 ft³/s (2,290 m³/s) Dec. 22, 1964, gage height, 30.7 ft (9.36 m) present datum, from high-water mark profile; minimum, 0.10 ft³/s (0.003 m³/s) Aug. 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,600 ft³/s (413 m³/s) Jan. 11, gage height, 13.11 ft (3.996 m); minimum daily, 13 ft³/s (0.37 m³/s) July 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	25	1580	85	167	5650	1030	819	216	31	23	40
2	29	27	580	84	149	4160	919	784	196	53	25	50
3	32	39	265	87	132	4730	812	670	180	71	22	48
4	33	43	214	85	116	4410	728	607	167	70	26	39
5	29	48	776	74	111	3950	666	1230	148	62	26	36
6	28	46	409	69	133	3940	644	3100	134	64	25	35
7	29	49	255	64	164	3950	576	5900	119	64	39	31
8	30	45	190	90	190	3600	512	4800	107	62	36	31
9	30	47	157	651	191	3120	561	3700	96	51	35	32
10	28	44	161	882	226	2640	752	2950	88	61	36	31
11	33	45	261	9810	679	2310	4830	1760	81	54	37	27
12	32	47	370	6110	778	2010	2700	1850	74	47	28	28
13	27	51	281	3270	6850	1750	2090	1760	71	55	28	23
14	27	46	206	2050	4740	1550	1660	1350	68	49	27	21
15	27	44	164	1770	2700	1580	1430	1270	65	34	26	25
16	28	35	140	1240	2240	1880	1800	1020	67	22	26	28
17	31	39	194	917	1940	1750	2920	850	83	20	26	24
18	28	38	237	745	2460	1600	2430	730	84	23	23	24
19	30	53	190	599	2650	1540	1780	630	73	25	23	22
20	30	103	153	501	2320	1400	1470	580	62	21	24	22
21	32	129	125	440	3030	1240	1230	530	58	19	21	27
22	27	106	110	389	3410	1140	1060	495	49	19	22	31
23	25	80	120	336	4190	1010	981	447	42	18	17	33
24	28	62	124	315	3800	906	1130	414	42	13	18	31
25	28	52	131	332	2900	817	1020	367	42	14	19	32
26	32	47	140	295	4000	768	966	337	35	23	23	42
27	29	43	121	259	3530	980	1240	319	38	30	24	33
28	29	39	110	252	6540	2150	1070	292	41	34	22	29
29	28	81	101	230	---	1650	915	265	39	30	25	27
30	29	281	97	219	---	1400	835	237	36	31	29	25
31	28	---	88	195	---	1170	---	237	---	28	36	---
TOTAL	911	1834	8050	32445	60336	70751	40757	40300	2601	1198	817	927
MEAN	29.4	61.1	260	1047	2155	2282	1359	1300	86.7	38.6	26.4	30.9
MAX	35	281	1580	9810	6850	5650	4830	5900	216	71	39	50
MIN	25	25	88	64	111	768	512	237	35	13	17	21
AC-FT	1810	3640	15970	64350	119700	140300	80840	79940	5160	2380	1620	1840
(†)	5360	4090	3480	3290	4160	5280	4820	5460	5770	5350	5740	5780
CAL YR 1978	TOTAL	482048	MEAN	1321	MAX	17700	MIN	24	AC-FT	956100	(†)	56,620
WTR YR 1979	TOTAL	260927	MEAN	715	MAX	9810	MIN	13	AC-FT	517500	(†)	58,580

† Diversion, in acre-feet, for municipal supply and industrial use; furnished by Humboldt Municipal Water District.

MAD RIVER BASIN

11481000 MAD RIVER NEAR ARCATA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO JANUARY 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	14.5	14.0	9.0	10.0	8.5	5.5	3.0				
2	20.0	13.5	13.5	9.0	11.0	7.0	6.0	3.5				
3	18.5	12.5	14.0	9.0	11.0	6.0	6.0	4.5				
4	16.0	13.5	13.0	11.0	10.5	7.5	9.5	5.5				
5	19.0	13.5	15.0	11.0	9.0	6.5	9.0	5.0				
6	16.5	15.5	14.5	10.0	9.0	5.5	8.5	5.5				
7	21.0	13.0	14.5	10.0	8.5	4.5	8.5	7.0				
8	21.0	12.5	14.0	10.0	8.5	4.0	9.0	8.0				
9	21.0	15.0	12.5	10.0	8.5	6.5	9.0	7.0				
10	20.0	15.0	12.0	8.0	9.5	7.5	9.0	7.5				
11	21.0	14.5	11.0	7.5	9.5	8.5	9.5	8.5				
12	21.0	12.5	8.0	6.5	10.0	7.0	9.0	8.5				
13	21.0	13.0	11.5	6.5	10.0	6.5	8.5	7.5				
14	18.0	13.0	11.5	6.5	9.5	6.5	7.5	7.0				
15	19.0	15.5	9.5	6.5	9.5	6.0	9.0	6.5				
16	19.0	15.5	11.0	9.0	8.0	5.0	8.5	5.5				
17	20.0	15.0	11.5	10.0	8.0	6.0	6.5	5.0				
18	17.0	13.5	11.5	9.5	8.0	4.5	8.5	5.0				
19	15.5	14.5	12.0	10.0	8.0	3.5	---	---				
20	18.0	14.5	10.5	9.0	7.5	3.5	---	---				
21	18.5	13.5	12.5	8.5	8.5	4.5	---	---				
22	18.0	12.5	12.0	8.0	8.0	4.5	---	---				
23	18.0	11.5	10.5	7.0	9.5	6.0	---	---				
24	17.0	12.0	11.5	7.5	9.5	6.5	---	---				
25	15.0	12.5	11.5	6.5	9.5	5.5	---	---				
26	14.5	13.5	10.5	6.5	7.0	5.0	---	---				
27	16.5	11.5	10.5	6.0	8.0	5.5	---	---				
28	14.0	11.0	11.0	9.0	8.5	4.0	---	---				
29	15.0	11.0	11.5	11.0	7.0	3.5	---	---				
30	14.5	9.5	11.0	9.5	6.0	3.0	---	---				
31	14.5	9.0	---	---	6.0	3.0	---	---				
MONTH	21.0	9.0	15.0	6.0	11.0	3.0	---	---				

LITTLE RIVER BASIN

351

11481200 LITTLE RIVER NEAR TRINIDAD, CA

LOCATION.--Lat 41°00'40", long 124°04'50", in NE¼ sec.8, T.7 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on right bank 0.5 mi (0.8 km) upstream from Coon Creek, 4.7 mi (7.6 km) southeast of Trinidad, and 9.1 mi (14.6 km) north of Arcata.

DRAINAGE AREA.--40.5 mi² (104.9 km²).

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 (5.371 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--24 years, 141 ft³/s (3.993 m³/s), 102,200 acre-ft/yr (126 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft³/s (278 m³/s) Mar. 18, 1975, gage height, 14.19 ft (4.325 m), from rating curve extended above 3,100 ft³/s (87.8 m³/s) on basis of slope-area measurement at gage height 14.08 ft (4.292 m); minimum daily, 2.8 ft³/s (0.079 m³/s) Oct. 20-22, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 17, 18, 1953, reached a stage of 15.7 ft (4.79 m), observed by an employee of Hammond Lumber Co.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,180 ft³/s (90.1 m³/s) Feb. 13 (0900 hrs), gage height, 7.19 ft (2.192 m), no other peaks above base of 3,000 ft³/s (85 m³/s); minimum daily, 4.3 ft³/s (0.12 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	5.3	228	12	34	548	40	58	31	14	7.3	6.1
2	6.4	5.3	48	12	32	379	39	55	29	13	7.0	17
3	6.1	5.3	29	11	31	525	37	51	27	13	7.0	11
4	6.1	5.3	54	11	29	413	36	49	27	13	7.0	8.7
5	6.4	5.3	125	11	30	295	35	202	26	13	7.0	7.2
6	6.4	5.3	48	11	33	222	37	839	25	12	6.8	6.4
7	6.1	5.3	32	11	37	185	35	955	25	12	7.0	6.0
8	6.1	5.3	24	18	44	157	35	550	23	11	7.0	6.8
9	6.1	5.3	21	28	47	136	47	342	22	13	6.7	6.4
10	6.2	5.3	21	283	61	118	89	229	21	20	6.7	5.8
11	6.1	5.3	49	1800	345	105	438	175	21	14	6.6	5.2
12	6.1	5.5	50	718	257	96	177	144	21	12	6.4	5.3
13	6.1	6.0	34	322	1920	89	196	123	20	11	6.4	5.0
14	5.8	6.4	26	193	568	81	138	107	20	11	6.2	4.5
15	5.8	6.4	22	131	288	117	159	96	19	10	6.1	4.5
16	5.8	6.4	20	94	291	120	372	86	20	10	5.8	4.5
17	5.8	6.4	42	79	237	109	689	77	23	9.8	5.8	4.5
18	5.8	6.5	39	65	396	99	344	70	21	9.5	5.8	4.5
19	5.8	18	29	54	379	93	207	64	19	9.3	6.1	4.5
20	5.8	21	23	49	352	82	153	59	19	9.0	6.1	4.5
21	5.8	20	21	45	502	73	122	57	18	8.5	6.1	4.5
22	5.6	15	19	42	499	68	104	54	17	8.3	5.9	4.5
23	5.6	11	18	37	979	61	95	50	17	8.3	5.6	4.5
24	5.6	9.9	17	37	690	56	99	47	16	8.2	5.6	4.5
25	5.6	8.8	16	44	397	53	80	45	16	7.6	5.6	4.7
26	5.6	8.2	15	38	502	53	75	41	15	8.0	5.6	4.8
27	5.6	8.0	15	36	371	55	73	40	15	8.0	5.4	4.8
28	5.6	8.0	14	36	1220	51	63	38	15	8.2	5.3	4.8
29	5.6	41	13	38	---	47	59	36	15	8.3	5.3	4.7
30	5.6	147	12	35	---	44	57	35	15	8.2	5.3	4.3
31	5.3	---	12	33	---	42	---	33	---	7.9	5.5	---
TOTAL	182.7	417.8	1136	4334	10571	4572	4130	4807	618	329.1	192.0	174.5
MEAN	5.89	13.9	36.6	140	378	147	138	155	20.6	10.6	6.19	5.82
MAX	6.4	147	228	1800	1920	548	689	955	31	20	7.3	17
MIN	5.3	5.3	12	11	29	42	35	33	15	7.6	5.3	4.3
AC-FT	362	829	2250	8600	20970	9070	8190	9530	1230	653	381	346
CAL YR 1978 TOTAL	34233.0		MEAN 93.8	MAX 1200	MIN 5.3	AC-FT 67900						
WTR YR 1979 TOTAL	31464.1		MEAN 86.2	MAX 1920	MIN 4.3	AC-FT 62410						

REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA

LOCATION.--Lat 40°54'22", long 123°48'51", in SE¼NE¼ sec.15, T.6 N., R.3 E., Humboldt County, Hydrologic Unit 18010102, on right bank 400 ft (122 m) upstream from Lupton Creek, and 9.1 mi (14.6 km) east of town of Blue Lake.

DRAINAGE AREA.--67.7 mi² (175.3 km²).

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 (259 m), from topographic map.

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

AVERAGE DISCHARGE.--12 years, 256 ft³/s (7.250 m³/s), 185,500 acre-ft/yr (229 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s (346 m³/s) Mar. 18, 1975, gage height, 13.70 ft (4.176 m), from rating curve extended above 6,400 ft³/s (181 m³/s); minimum daily, 2.6 ft³/s (0.074 m³/s) Aug. 24, Sept. 11-15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (54 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 11	0745	*4760	135	9.17	2.795
Feb. 13	1015	2110	59.8	7.13	2.173

Minimum daily discharge, 3.9 ft³/s (0.11 m³/s) Sept. 19-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	6.4	300	25	57	746	174	196	82	31	12	7.5
2	8.7	6.3	100	21	53	544	163	181	78	31	11	7.8
3	8.1	6.2	56	21	52	825	153	169	74	30	11	8.0
4	7.6	6.2	64	21	52	666	145	158	71	29	11	7.9
5	7.6	6.1	137	22	56	599	144	311	67	28	10	7.1
6	7.6	6.2	76	21	67	593	147	506	63	28	10	6.6
7	7.6	6.6	56	20	70	532	135	793	59	27	9.7	6.2
8	7.6	6.5	44	37	73	479	130	662	56	28	9.3	5.8
9	7.6	6.4	41	110	81	428	154	543	53	31	9.0	5.8
10	7.6	6.3	44	370	99	386	257	450	50	40	8.8	5.8
11	7.1	6.2	82	2980	200	362	862	398	48	33	8.6	5.8
12	7.1	6.4	78	1500	203	328	454	354	46	28	8.4	5.3
13	7.0	9.7	59	740	1580	299	440	309	44	25	8.2	5.0
14	6.6	9.1	48	398	782	282	345	269	41	23	8.0	4.7
15	6.6	9.1	43	297	490	328	306	243	46	21	8.0	4.4
16	6.6	10	39	228	440	305	377	221	56	19	8.2	4.3
17	6.5	12	44	181	365	279	450	200	72	18	8.2	4.3
18	6.4	12	41	151	502	270	381	181	65	17	8.1	4.0
19	6.4	19	35	125	437	258	344	166	57	16	8.0	3.9
20	6.5	50	31	110	408	237	316	156	53	17	8.0	3.9
21	6.6	29	30	102	405	218	288	144	50	16	7.6	3.9
22	6.6	25	30	93	443	203	268	139	47	16	7.5	3.9
23	6.6	19	30	86	512	187	262	132	44	16	7.1	4.1
24	6.5	17	30	85	470	176	262	123	42	15	6.6	4.3
25	6.5	15	30	81	430	168	229	114	40	14	6.6	4.5
26	6.6	14	30	72	571	166	243	106	37	14	6.6	5.4
27	6.4	13	28	72	481	274	263	102	35	14	6.2	5.4
28	6.4	14	26	70	1250	282	230	99	33	13	6.2	5.2
29	6.4	34	25	64	---	232	209	93	32	13	6.3	4.7
30	6.4	158	24	63	---	209	195	91	32	12	6.8	4.5
31	6.4	---	27	60	---	187	---	87	---	12	7.3	---
TOTAL	216.9	544.7	1728	8226	10629	11048	8326	7696	1573	675	258.3	160.0
MEAN	7.00	18.2	55.7	265	380	356	278	248	52.4	21.8	8.33	5.33
MAX	8.7	158	300	2980	1580	825	862	793	82	40	12	8.0
MIN	6.4	6.1	24	20	52	166	130	87	32	12	6.2	3.9
AC-FT	430	1080	3430	16320	21080	21910	16510	15270	3120	1340	512	317
CAL YR 1978	TOTAL	69907.1	MEAN 192	MAX 1810	MIN 5.0	AC-FT 138700						
WTR YR 1979	TOTAL	51080.9	MEAN 140	MAX 2980	MIN 3.9	AC-FT 101300						

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 current year.

SEDIMENT RECORDS.--October 1972 to current year.

INSTRUMENTATION.--Temperature recorder since October 1972.

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, 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.

SEDIMENT DISCHARGE: Maximum daily, 276,000 tons (250,000 metric tons) Mar. 18, 1975; minimum daily, 0 ton (0 metric ton) on several days in 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 29.5°C July 18-20, 23; minimum recorded, 1.0°C Dec. 30, 31, Jan. 1, 29, Feb. 2, 3.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,750 mg/L Jan. 11; minimum daily mean, 1 mg/L many days.

SEDIMENT DISCHARGE: Maximum daily, 30,200 tons (27,400 metric tons) Jan. 11; minimum daily, 0.01 ton (0.01 metric ton) several days during September.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	12.0	12.0	5.5	8.5	7.0	2.5	1.0	4.0	2.5	6.5	5.5
2	20.5	12.0	11.0	5.5	7.5	6.0	3.5	1.5	4.0	1.0	7.0	5.5
3	20.5	12.0	11.5	5.5	6.5	4.5	4.0	2.5	4.5	1.0	7.5	6.5
4	20.5	12.0	12.0	8.0	8.0	6.0	6.0	4.0	6.5	3.5	8.5	7.0
5	20.0	12.0	13.0	8.0	7.5	---	5.5	3.5	6.5	5.0	9.5	8.0
6	16.5	13.5	12.5	7.0	5.0	3.0	5.5	3.0	7.5	6.0	10.5	7.5
7	18.5	11.0	12.5	7.5	3.5	2.0	5.5	4.5	8.5	6.0	10.0	8.0
8	18.5	10.5	12.0	6.5	4.0	2.0	6.5	4.5	8.5	6.0	10.5	7.5
9	19.0	12.0	11.0	6.5	6.0	4.0	7.5	6.0	9.0	7.0	10.5	7.5
10	18.0	11.5	8.0	3.0	7.0	5.5	8.5	7.0	8.5	7.0	10.5	7.5
11	19.5	10.5	6.5	2.0	8.0	7.0	10.0	8.5	8.5	7.0	9.5	8.5
12	19.5	11.5	4.5	2.5	7.0	6.0	9.0	8.0	8.0	7.0	11.0	8.0
13	19.5	11.0	6.5	3.5	6.5	5.0	8.0	6.5	8.0	7.0	11.0	8.0
14	18.5	11.0	6.0	2.0	5.5	4.0	7.5	7.0	7.0	6.0	10.0	8.5
15	16.5	12.0	6.0	2.0	5.5	4.0	7.5	6.0	6.5	5.5	9.5	7.5
16	17.0	14.0	8.0	6.0	5.0	2.5	6.5	5.0	7.0	5.5	7.5	6.5
17	18.5	11.5	10.0	7.5	5.0	3.0	6.0	4.5	7.0	6.0	8.0	6.0
18	18.0	11.0	8.5	5.0	4.5	3.0	6.5	5.0	7.0	6.5	8.0	6.5
19	16.0	10.5	10.5	7.5	3.5	1.5	6.0	4.0	7.5	6.0	9.5	6.5
20	14.5	12.5	9.0	7.5	3.5	1.5	6.0	4.0	7.0	6.5	10.0	6.0
21	17.0	12.0	9.0	7.5	5.0	3.0	6.5	4.5	7.0	6.0	9.0	6.5
22	16.5	10.0	9.0	6.5	4.5	2.0	6.0	3.5	6.5	6.0	9.0	7.5
23	16.0	9.5	8.0	5.0	5.5	3.5	5.5	3.0	6.0	5.5	10.5	7.0
24	16.0	9.5	7.5	4.0	5.5	3.0	6.0	4.5	7.5	5.5	10.5	6.5
25	16.0	9.0	7.0	3.5	5.0	3.0	5.5	4.0	7.5	6.5	11.0	7.0
26	15.5	10.0	6.5	3.5	4.5	2.5	4.5	2.5	7.0	6.5	9.0	7.5
27	15.0	10.0	6.5	3.0	5.5	3.5	5.0	3.5	7.0	6.0	9.0	8.0
28	13.5	8.0	9.0	5.0	5.5	3.0	4.5	2.5	7.0	6.0	9.0	6.5
29	12.5	9.0	9.5	8.5	3.5	1.5	3.5	1.0	---	---	9.0	7.5
30	12.5	6.5	9.0	8.0	2.5	1.0	4.0	2.5	---	---	9.5	7.0
31	12.0	5.5	---	---	1.5	1.0	4.5	2.5	---	---	10.5	7.0
MONTH	20.5	5.5	13.0	2.0	8.5	1.0	10.0	1.0	9.0	1.0	11.0	5.5

REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	7.0	12.5	11.5	23.0	14.5	22.0	16.0	28.0	17.5	20.5	16.5
2	9.5	7.5	15.5	11.0	24.0	15.5	22.0	13.5	27.5	17.5	21.5	17.0
3	10.5	7.5	14.5	12.0	24.5	16.5	23.0	14.0	27.0	16.5	23.0	18.0
4	12.5	7.5	13.5	12.0	23.5	16.0	21.0	16.5	26.5	16.0	23.0	15.5
5	12.0	9.0	12.5	11.0	24.0	16.0	21.5	13.5	25.5	14.5	23.0	16.0
6	11.5	9.5	11.0	10.0	23.0	17.0	21.5	15.5	26.5	15.5	23.5	16.0
7	13.5	9.0	10.0	9.5	22.5	14.5	23.0	14.5	26.5	15.0	23.5	16.0
8	11.5	10.0	10.0	9.0	23.5	14.5	24.0	16.0	26.0	14.5	23.5	18.5
9	11.0	9.0	12.5	9.5	24.0	16.0	18.5	17.0	26.0	15.0	23.0	15.5
10	9.0	8.0	14.0	9.5	24.5	16.0	19.5	16.5	26.0	15.5	23.0	15.0
11	9.5	8.5	15.0	10.0	24.0	16.0	24.0	15.5	26.5	15.0	24.0	16.0
12	10.5	8.5	16.0	11.0	23.5	15.5	25.0	16.5	25.0	14.5	24.0	16.5
13	11.5	9.0	17.0	12.0	22.5	14.0	25.5	16.0	23.5	16.5	24.5	17.0
14	10.5	7.5	17.5	13.0	22.0	13.5	26.5	16.5	25.0	14.0	24.5	17.0
15	12.5	9.5	17.0	13.5	22.5	14.0	28.0	18.0	21.0	14.5	24.0	17.0
16	11.5	9.5	17.0	13.0	16.0	13.5	28.5	19.0	25.0	16.0	24.5	17.0
17	10.0	8.5	18.0	12.5	16.0	13.0	29.0	19.0	25.0	13.5	23.5	17.0
18	9.0	7.0	19.0	13.5	15.0	13.0	29.5	19.5	25.0	14.0	23.0	17.0
19	11.0	7.0	20.0	14.0	22.5	13.5	29.5	20.0	19.0	16.0	23.0	17.5
20	11.5	7.5	20.0	15.0	22.5	14.5	29.5	20.5	22.5	14.5	23.0	17.5
21	12.0	8.5	19.0	15.5	22.5	14.0	28.5	20.5	20.5	15.5	23.0	18.0
22	12.5	9.5	17.5	16.0	23.0	13.5	28.5	19.0	21.5	14.5	23.0	16.5
23	11.5	9.5	18.0	14.5	24.0	14.0	29.5	19.0	23.0	15.0	22.5	15.5
24	12.5	9.0	20.0	15.0	25.0	15.5	29.0	19.0	23.5	15.0	20.5	15.5
25	14.0	9.0	21.0	15.0	24.5	16.0	28.5	19.0	23.5	16.0	18.5	16.5
26	13.0	11.0	19.5	15.5	25.0	16.5	28.0	18.0	24.5	16.5	22.0	16.0
27	13.5	10.5	18.0	14.5	25.0	16.5	27.0	18.5	22.0	16.5	22.0	16.0
28	14.0	10.5	18.0	13.0	24.0	16.5	27.0	18.5	22.0	16.5	21.5	16.0
29	14.0	11.0	18.5	12.5	22.5	15.5	27.0	16.5	22.0	17.0	21.0	15.5
30	13.0	11.5	21.0	13.5	23.0	15.5	28.0	17.0	19.5	17.5	21.0	15.0
31	---	---	22.0	13.5	---	---	28.0	17.5	23.0	15.5	---	---
MONTH	14.0	7.0	22.0	9.0	25.0	13.0	29.5	13.5	28.0	13.5	24.5	15.0
YEAR	29.5	1.0										

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	8.7	1	.02	6.4	1	.02	300	166	192
2	8.7	1	.02	6.3	1	.02	100	29	7.8
3	8.1	1	.02	6.2	1	.02	56	8	1.2
4	7.6	1	.02	6.2	1	.02	64	10	3.9
5	7.6	1	.02	6.1	1	.02	137	34	13
6	7.6	1	.02	6.2	2	.03	76	9	1.8
7	7.6	1	.02	6.6	3	.05	56	4	.60
8	7.6	1	.02	6.5	4	.07	44	2	.24
9	7.6	1	.02	6.4	3	.05	41	2	.22
10	7.6	2	.04	6.3	2	.03	44	5	.59
11	7.1	1	.02	6.2	1	.02	82	18	4.1
12	7.1	1	.02	6.4	1	.02	78	7	1.5
13	7.0	1	.02	9.7	1	.03	59	5	.80
14	6.6	1	.02	9.1	1	.02	48	4	.52
15	6.6	1	.02	9.1	1	.02	43	4	.46
16	6.6	1	.02	10	1	.03	39	3	.32
17	6.5	1	.02	12	2	.06	44	3	.36
18	6.4	1	.02	12	1	.03	41	2	.22
19	6.4	1	.02	19	3	.15	35	1	.09
20	6.5	1	.02	50	5	.68	31	1	.08
21	6.6	1	.02	29	4	.31	30	2	.16
22	6.6	1	.02	25	3	.20	30	3	.24
23	6.6	1	.02	19	3	.15	30	3	.24
24	6.5	1	.02	17	4	.18	30	4	.32
25	6.5	1	.02	15	4	.16	30	4	.32
26	6.6	1	.02	14	3	.11	30	4	.32
27	6.4	1	.02	13	3	.11	28	4	.30
28	6.4	1	.02	14	3	.11	26	3	.21
29	6.4	1	.02	34	5	.46	25	3	.20
30	6.4	1	.02	158	88	136	24	5	.32
31	6.4	1	.02	---	---	---	27	8	.58
TOTAL	216.9	---	.64	544.7	---	139.18	1728	---	233.01

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	25	5	.34	57	2	.31	746	184	371
2	21	3	.17	53	2	.29	544	86	126
3	21	2	.11	52	2	.28	825	400	925
4	21	1	.06	52	2	.28	666	140	252
5	22	1	.06	56	3	.45	599	90	146
6	21	1	.06	67	4	.72	593	73	117
7	20	1	.05	70	2	.38	532	63	90
8	37	9	.90	73	3	.59	479	46	59
9	110	20	5.9	81	5	1.1	428	32	37
10	370	680	679	99	40	14	386	23	24
11	2980	3750	30200	200	140	76	362	19	19
12	1500	990	4010	203	164	141	328	17	15
13	740	221	442	1580	1500	6860	299	13	10
14	398	148	159	782	202	455	282	9	6.9
15	297	76	61	490	105	139	328	34	30
16	228	42	26	440	74	88	305	32	26
17	181	23	11	365	65	64	279	20	15
18	151	17	6.9	502	139	189	270	18	13
19	125	16	5.4	437	80	94	258	12	8.4
20	110	15	4.5	408	61	67	237	9	5.8
21	102	12	3.3	405	53	58	218	8	4.7
22	93	9	2.3	443	78	93	203	7	3.8
23	86	5	1.2	512	103	142	187	6	3.0
24	85	3	.69	470	98	124	176	4	1.9
25	81	3	.66	430	104	121	168	4	1.8
26	72	3	.58	571	166	256	166	4	1.8
27	72	2	.39	481	142	203	274	75	72
28	70	2	.38	1250	913	3450	282	56	43
29	64	1	.17	---	---	---	232	13	8.1
30	63	1	.17	---	---	---	209	6	3.4
31	60	2	.32	---	---	---	187	3	1.5
TOTAL	8226	---	35622.61	10629	---	12638.40	11048	---	2441.1

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	174	3	1.4	196	5	2.6	82	10	2.2
2	163	3	1.3	181	5	2.4	78	11	2.3
3	153	3	1.2	169	5	2.3	74	12	2.4
4	145	3	1.2	158	4	1.7	71	10	1.9
5	144	3	1.2	311	92	90	67	8	1.4
6	147	3	1.2	506	161	257	63	6	1.0
7	135	3	1.1	793	275	589	59	5	.80
8	130	4	1.4	662	157	281	56	4	.60
9	154	5	2.1	543	96	141	53	3	.43
10	257	133	226	450	50	61	50	3	.41
11	862	386	989	398	37	40	48	2	.26
12	454	69	85	354	30	29	46	2	.25
13	440	63	75	309	22	18	44	2	.24
14	345	15	14	269	15	11	41	2	.22
15	306	9	7.4	243	11	7.2	46	3	.37
16	377	56	61	221	8	4.8	56	2	.30
17	450	48	58	200	6	3.2	72	4	.78
18	381	19	20	181	5	2.4	65	3	.53
19	344	15	14	166	4	1.8	57	2	.31
20	316	11	9.4	156	4	1.7	53	2	.29
21	288	8	6.2	144	3	1.2	50	2	.27
22	268	5	3.6	139	3	1.1	47	1	.13
23	262	14	9.9	132	3	1.1	44	1	.12
24	262	18	13	123	3	1.0	42	1	.11
25	229	7	4.3	114	3	.92	40	1	.11
26	243	17	11	106	4	1.1	37	1	.10
27	263	15	11	102	4	1.1	35	1	.09
28	230	7	4.3	99	3	.80	33	1	.09
29	209	5	2.8	93	3	.75	32	1	.09
30	195	5	2.6	91	3	.74	32	1	.09
31	---	---	---	87	10	2.3	---	---	---
TOTAL	8326	---	1639.6	7696	---	1559.21	1573	---	18.19

REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	31	1	.08	12	2	.06	7.5	1	.02
2	31	1	.08	11	1	.03	7.8	1	.02
3	30	1	.08	11	1	.03	8.0	2	.04
4	29	1	.08	11	1	.03	7.9	2	.04
5	28	1	.08	10	1	.03	7.1	1	.02
6	28	1	.08	10	1	.03	6.6	1	.02
7	27	1	.07	9.7	1	.03	6.2	1	.02
8	28	1	.08	9.3	1	.03	5.8	1	.02
9	31	1	.08	9.0	1	.02	5.8	1	.02
10	40	3	.32	8.8	1	.02	5.8	1	.02
11	33	2	.18	8.6	1	.02	5.8	1	.02
12	28	2	.15	8.4	1	.02	5.3	1	.01
13	25	2	.14	8.2	1	.02	5.0	2	.03
14	23	2	.12	8.0	1	.02	4.7	1	.01
15	21	1	.06	8.0	1	.02	4.4	2	.02
16	19	1	.05	8.2	1	.02	4.3	3	.03
17	18	1	.05	8.2	1	.02	4.3	2	.02
18	17	1	.05	8.1	1	.02	4.0	1	.01
19	16	1	.04	8.0	1	.02	3.9	2	.02
20	17	1	.05	8.0	1	.02	3.9	1	.01
21	16	1	.04	7.6	1	.02	3.9	1	.01
22	16	1	.04	7.5	1	.02	3.9	2	.02
23	16	1	.04	7.1	1	.02	4.1	1	.01
24	15	1	.04	6.6	2	.04	4.3	2	.02
25	14	1	.04	6.6	1	.02	4.5	2	.02
26	14	1	.04	6.6	1	.02	5.4	2	.03
27	14	1	.04	6.2	1	.02	5.4	1	.01
28	13	2	.07	6.2	1	.02	5.2	1	.01
29	13	1	.04	6.3	1	.02	4.7	1	.01
30	12	1	.03	6.8	1	.02	4.5	1	.01
31	12	1	.03	7.3	2	.04	---	---	---
TOTAL	675	---	2.37	258.3	---	.77	160.0	---	.57
YEAR	51080.9		54295.65						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1978	216.90	0.64	0	1
NOVEMBER ...	544.70	139.18	4	143
DECEMBER ...	1728.00	233.01	52	285
JANUARY 1979	8226.00	35622.61	11400	47100
FEBRUARY ...	10629.00	12638.40	7910	20500
MARCH	11048.00	2441.10	4440	6880
APRIL	8326.00	1639.60	2220	3860
MAY	7696.00	1559.21	2410	3970
JUNE	1573.00	18.19	0	18
JULY	675.00	2.37	0	2
AUGUST	258.30	0.77	0	1
SEPTEMBER ..	160.00	0.57	0	1
TOTAL	51080.90	54295.65	28436	82761

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDEO (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDEO (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 05...	1245	6.0	130	27	9.5	--	--	--
JAN 12...	1205	7.0	1190	1010	3250	--	--	--
13...	1115	7.0	509	209	287	--	--	--
FEB 13...	0900	9.0	1960	2630	13900	--	19	26
28...	1505	--	1160	523	1640	27	32	38
MAY 08...	0935	9.0	645	159	277	--	--	--

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
DEC 05...	--	--	94	98	100	--	--	--
JAN 12...	--	--	54	62	71	85	94	97
13...	--	--	66	74	82	91	97	100
FEB 13...	34	43	50	61	74	89	98	99
28...	48	57	64	70	80	93	100	--
MAY 08...	--	--	51	53	56	61	73	100

REDWOOD CREEK BASIN

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CA

LOCATION.--Lat 41°10'19", long 123°56'55", in SE¼NE¼ sec.16, T.9 N., R.2 E., Humboldt County, Hydrologic Unit 18010102, Redwood National Park (south boundary), on left bank 150 ft (46 m) downstream from Slide Creek, 8.6 mi (13.8 km) southeast of Orick, and 17 mi (27 km) upstream from mouth.

DRAINAGE AREA.--185 mi² (479 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 226.84 ft (69.141 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 3, 1973, at different datum.

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

AVERAGE DISCHARGE.--9 years, 733 ft³/s (20.76 m³/s), 531,100 acre-ft/yr (655 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,000 ft³/s (935 m³/s) Mar. 18, 1975, on basis of runoff comparison with upstream and downstream stations, gage height unknown; maximum gage height recorded, 29.36 ft (8.949 m) Mar. 2, 1972, datum then in use; minimum daily discharge, 4.5 ft³/s (0.13 m³/s) Oct. 17-21, 23, 26, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,900 ft³/s (167 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 11	0930	*13300 377	15.40 4.694
Feb. 13	1345	6920 196	11.46 3.493

Minimum daily discharge, 11 ft³/s (0.31 m³/s) Sept. 18, 19 and 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	17	710	43	212	2880	338	422	251	66	26	17
2	26	16	242	44	208	2060	320	396	237	63	25	44
3	25	16	129	41	195	2430	303	365	221	61	24	25
4	24	16	133	44	203	2070	292	347	206	60	23	21
5	23	16	287	43	214	1760	282	815	182	59	22	18
6	22	16	181	40	226	1560	284	2160	163	58	21	17
7	21	17	122	40	227	1400	272	3260	152	57	20	15
8	21	16	97	59	236	1240	262	2760	145	56	19	16
9	21	16	86	217	268	1030	296	2120	139	63	18	17
10	20	15	86	1110	374	880	397	1710	132	81	18	17
11	19	14	182	8170	1030	790	1610	1430	126	69	17	17
12	19	15	175	3990	1120	727	911	1190	120	59	16	16
13	19	18	127	2120	5240	660	818	1070	118	52	16	15
14	18	18	105	1470	3050	606	685	942	116	48	16	14
15	18	18	93	1050	1790	674	629	837	115	44	16	13
16	19	21	84	777	1530	672	923	764	116	40	16	12
17	19	23	118	685	1290	616	1300	702	145	39	16	12
18	19	24	118	581	1680	596	1040	631	140	36	16	11
19	18	71	94	474	1560	578	850	573	130	31	16	11
20	18	109	80	413	1630	522	744	523	120	33	17	12
21	18	89	73	389	1790	481	657	504	112	32	17	12
22	18	62	71	352	1890	447	596	469	107	32	19	20
23	18	48	71	321	2500	415	574	447	101	32	20	15
24	18	40	71	323	2360	391	591	434	95	30	18	11
25	18	36	69	323	1870	375	514	416	92	28	17	13
26	18	33	66	286	2180	374	515	384	87	27	16	14
27	17	31	61	276	1770	425	583	357	83	28	15	14
28	17	33	57	291	4040	521	504	325	78	28	15	14
29	17	100	52	243	---	422	461	309	74	28	15	13
30	17	292	47	234	---	394	421	290	70	27	15	12
31	17	---	43	223	---	361	---	269	---	26	16	---
TOTAL	608	1256	3930	24672	40683	28357	17972	27221	3973	1393	561	478
MEAN	19.6	41.9	127	796	1453	915	599	878	132	44.9	18.1	15.9
MAX	26	292	710	8170	5240	2880	1610	3260	251	81	26	44
MIN	17	14	43	40	195	361	262	269	70	26	15	11
AC-FT	1210	2490	7800	48940	80690	56250	35650	53990	7880	2760	1110	948
CAL YR 1978	TOTAL	200685	MEAN 550	MAX 6000	MIN 14	AC-FT 398100						
WTR YR 1979	TOTAL	151104	MEAN 414	MAX 8170	MIN 11	AC-FT 299700						

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to current year.
 CHEMICAL ANALYSES: Water years 1971-77.
 WATER TEMPERATURES: Water years 1974 to current year.
 SEDIMENT RECORDS: Water years 1971 to current year.

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: October 1973 to current year.

INSTRUMENTATION.--Temperature recorder since October 1973.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: Maximum recorded, 27.5°C June 29, 1974; minimum recorded, 1.0°C Dec. 10, 1976,
 Dec. 31, 1978, Jan. 1, 1979.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum recorded, 24.5°C July 20, 23, 25, Aug. 1; minimum recorded, 1.0°C Dec. 31, Jan. 1.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	11.5	9.5	10.0	9.0	3.0	1.0	6.5	6.0	8.5	7.0
2	---	---	11.0	9.0	8.5	7.5	4.0	2.0	6.0	5.5	8.5	7.5
3	---	---	11.0	8.5	8.0	7.0	4.5	3.0	5.5	5.0	9.5	8.5
4	---	---	12.0	10.5	9.0	7.5	6.0	4.5	5.5	5.0	10.0	9.0
5	---	---	12.5	10.5	8.0	6.0	6.0	4.0	6.5	5.5	11.0	10.0
6	16.0	15.5	12.0	9.5	6.0	5.0	5.5	3.5	7.0	6.5	11.5	10.0
7	17.5	14.0	12.0	10.0	4.5	3.5	6.0	5.0	8.0	7.0	12.0	10.5
8	17.5	13.5	12.0	9.5	5.0	3.5	6.5	5.5	8.5	8.0	11.5	10.0
9	18.0	15.5	11.0	9.0	6.0	4.5	7.5	6.5	9.0	8.5	11.5	9.5
10	18.0	14.5	9.0	7.0	7.5	6.0	9.0	7.5	9.5	9.0	11.5	10.0
11	18.0	14.5	7.5	6.0	8.5	7.5	10.0	9.0	9.5	9.0	11.0	10.5
12	18.0	14.5	6.5	5.5	7.5	6.5	10.0	9.5	9.5	9.0	12.0	9.5
13	18.0	14.5	7.0	5.5	7.0	6.0	9.0	8.5	9.5	9.0	11.5	9.5
14	17.5	14.5	7.0	5.0	7.0	6.0	8.5	8.0	9.0	8.5	11.5	10.5
15	17.0	15.5	6.5	4.5	6.5	5.0	8.0	7.5	8.5	7.5	11.0	9.5
16	17.5	16.0	8.0	6.5	5.5	4.0	8.0	7.0	8.5	7.5	9.5	8.5
17	18.0	15.0	10.0	8.0	6.0	5.5	7.5	7.0	8.5	8.0	9.5	8.5
18	17.5	14.5	9.0	7.5	5.5	4.5	7.5	7.0	8.5	8.0	9.5	9.0
19	16.5	14.5	10.0	8.5	5.0	3.5	7.0	7.0	9.0	8.0	11.0	8.5
20	16.5	15.0	9.5	9.0	4.5	3.0	7.0	7.0	8.5	8.0	11.0	8.0
21	16.5	14.5	10.0	8.5	5.5	4.0	7.5	7.0	8.5	8.0	10.0	8.5
22	16.0	13.5	10.0	8.5	6.0	4.5	7.5	6.5	8.0	7.5	10.5	9.0
23	15.5	13.0	9.0	7.0	6.5	5.5	7.0	6.0	7.5	7.5	11.0	8.0
24	15.0	13.0	8.5	7.0	6.5	5.5	7.0	6.5	9.0	7.5	11.5	8.5
25	15.0	12.5	8.5	7.0	6.0	5.0	6.5	6.0	9.0	8.5	11.5	9.0
26	14.5	13.0	8.0	6.5	5.5	4.0	6.5	6.0	9.0	8.0	10.5	9.5
27	14.5	13.0	7.5	6.0	6.5	5.5	6.5	6.5	8.5	7.5	10.0	9.0
28	13.5	13.0	9.0	7.0	5.5	4.0	6.5	6.0	8.5	8.0	10.5	8.0
29	14.0	12.0	10.0	9.0	4.0	2.5	7.0	6.5	---	---	10.5	9.0
30	13.0	11.0	10.0	9.5	3.0	1.5	7.0	7.0	---	---	11.0	8.5
31	12.0	9.5	---	---	2.5	1.0	7.0	6.5	---	---	11.0	8.0
MONTH	18.0	9.5	12.5	4.5	10.0	1.0	10.0	1.0	9.5	5.0	12.0	7.0

REDWOOD CREEK BASIN

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.5	8.5	13.0	11.5	20.5	14.5	20.0	18.5	24.5	21.0	20.5	19.0
2	11.0	9.0	15.5	11.0	21.5	15.5	20.5	17.0	24.0	20.5	20.5	19.5
3	11.5	8.5	13.5	12.5	21.5	16.5	21.0	16.5	23.5	20.5	21.0	19.5
4	13.0	9.0	13.0	12.0	21.5	16.5	20.0	19.0	23.0	20.0	21.5	19.0
5	13.0	10.0	12.5	11.0	21.0	16.0	19.5	17.0	23.0	19.5	21.0	19.0
6	12.0	10.0	10.5	9.5	20.5	16.5	20.0	17.5	22.0	19.5	21.5	19.0
7	13.5	10.0	10.0	9.5	20.0	15.0	20.5	18.0	22.5	19.0	21.5	19.0
8	12.0	10.5	9.5	9.0	21.0	15.0	21.5	19.0	22.5	19.0	21.5	20.0
9	11.5	10.0	12.0	9.5	21.5	16.0	21.0	19.5	22.5	19.0	21.5	19.5
10	9.5	9.0	13.0	9.5	22.0	16.5	20.5	18.5	22.0	19.5	21.5	19.0
11	9.5	8.5	13.5	9.5	21.5	16.5	22.5	18.0	22.0	18.5	21.5	18.5
12	10.0	9.0	14.5	11.0	21.0	16.5	23.0	19.0	21.5	18.5	22.0	19.0
13	11.5	9.5	15.5	11.5	20.0	15.0	22.5	19.0	20.5	19.5	22.0	19.5
14	10.5	8.5	15.5	12.5	20.0	14.5	22.5	19.5	21.5	18.0	21.5	19.5
15	12.0	10.0	15.5	12.5	19.5	15.0	23.5	20.0	20.5	18.5	21.0	19.0
16	11.0	10.0	15.5	12.5	17.0	15.0	23.5	20.5	22.0	19.0	21.5	19.5
17	9.5	8.5	16.5	12.5	18.0	14.5	23.5	20.5	22.0	19.0	21.0	19.0
18	9.5	7.5	17.0	13.0	20.0	14.5	24.0	20.5	22.5	19.0	20.5	19.5
19	10.5	7.0	18.0	13.5	21.0	15.5	24.0	21.0	21.0	20.0	20.5	19.0
20	11.0	8.0	18.0	14.0	21.0	16.0	24.5	21.0	21.0	18.5	21.0	19.0
21	11.0	8.5	16.0	14.5	21.5	16.5	24.0	21.0	21.5	19.0	20.0	19.0
22	12.0	9.5	15.5	14.0	21.5	16.0	24.0	21.0	22.0	18.5	20.5	19.0
23	11.0	9.5	16.5	13.5	22.5	16.5	24.5	21.0	22.0	19.0	20.0	18.5
24	11.5	9.5	18.5	14.0	22.5	17.5	24.5	21.5	22.0	18.5	19.5	18.0
25	13.5	9.5	19.5	14.0	23.0	18.0	24.0	21.0	22.0	19.5	19.5	18.5
26	12.5	11.5	17.5	15.0	22.5	18.5	24.0	21.0	23.0	20.0	19.5	18.0
27	13.0	11.0	17.0	13.5	23.0	18.0	23.0	20.5	21.0	19.5	19.0	18.0
28	13.5	11.0	16.5	13.0	21.0	18.0	23.5	20.5	22.0	19.5	19.5	17.5
29	13.5	11.0	17.0	12.0	21.5	17.5	23.5	20.0	21.5	20.0	19.0	17.5
30	13.0	12.0	18.0	12.5	21.5	17.5	24.0	20.0	20.5	20.0	19.0	17.5
31	---	---	19.0	13.5	---	---	24.0	20.5	21.5	18.5	---	---
MONTH	13.5	7.0	19.5	9.0	23.0	14.5	24.5	16.5	24.5	18.0	22.0	17.5
YEAR	24.5	1.0										

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPERATURE, WATER (DEG C)	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP.					
						SIEVE DIAM. % FINER THAN .062 MM	SIEVE DIAM. % FINER THAN .125 MM	SIEVE DIAM. % FINER THAN .250 MM	SIEVE DIAM. % FINER THAN .500 MM	SIEVE DIAM. % FINER THAN 1.00 MM	SIEVE DIAM. % FINER THAN 2.00 MM
OCT 06...	1225	16.0	22	3	.18	--	--	--	--	--	--
DEC 05...	1145	7.0	350	79	75	80	87	95	97	100	--
JAN 16...	1245	7.0	748	94	190	74	79	84	88	93	100
FEB 08...	1210	8.0	234	5	3.2	88	--	--	--	--	--
MAR 07...	1340	11.5	1410	147	560	70	75	81	86	92	100
APR 04...	1530	12.5	293	37	29	85	--	--	--	--	--
MAY 10...	1550	12.5	1650	168	748	66	73	80	87	96	100
JUN 05...	1215	17.5	175	3	1.4	--	--	--	--	--	--
JUL 09...	1410	19.0	59	2	.32	--	--	--	--	--	--
AUG 06...	1310	22.0	22	8	.48	--	--	--	--	--	--
SEP 10...	1430	21.0	17	2	.09	--	--	--	--	--	--

11482468 LITTLE LOST MAN CREEK AT SITE NO. 2, NEAR ORICK, CA

LOCATION.--Lat 41°19'20", long 124°01'10", in NE¼SE¼ sec.23, T.11 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on right bank 0.8 mi (1.3 km) upstream from mouth, and 3.2 mi (5.1 km) northeast of Orick.

DRAINAGE AREA.--3.46 mi² (8.96 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map.

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

AVERAGE DISCHARGE.--5 years, 9.26 ft³/s (0.26 m³/s), 6,710 acre-ft/yr (8.27 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 808 ft³/s (22.9 m³/s) Mar. 18, 1975, gage height, 4.32 ft (1.317 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Dec. 19-26, 28, 1976, Feb. 19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.8 m³/s) and maximum(*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 11	unknown	*177	5.01	3.19	0.972
Feb. 13	0845	106	3.00	2.90	0.884

Minimum daily discharge, 0.23 ft³/s (0.007 m³/s) Sept. 26-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	.40	20	1.5	2.9	49	4.0	7.2	2.7	.98	.40	.30
2	.68	.40	7.2	1.4	2.7	32	3.7	6.5	2.4	.98	.40	.59
3	.62	.36	4.4	1.4	2.5	32	3.5	6.2	2.2	.91	.40	.60
4	.62	.36	9.7	1.3	2.4	32	3.3	6.2	2.1	.91	.36	.47
5	.62	.36	19	1.3	2.4	26	3.1	23	2.1	.91	.36	.34
6	.57	.36	9.7	1.2	2.5	21	3.1	31	1.9	.85	.36	.29
7	.57	.36	6.5	1.1	3.1	17	2.9	59	1.9	.85	.33	.28
8	.57	.36	4.7	1.6	3.5	13	3.1	47	1.8	.79	.33	.32
9	.57	.36	3.7	1.6	3.5	11	3.7	32	1.7	.91	.33	.30
10	.57	.34	3.5	4.7	4.7	9.7	7.6	24	1.6	1.1	.33	.28
11	.52	.32	7.2	120	18	8.4	57	20	1.6	.79	.33	.28
12	.52	.32	6.9	70	20	7.6	29	14	1.5	.73	.31	.28
13	.49	.32	5.6	35	84	6.9	25	12	1.5	.73	.31	.27
14	.48	.32	4.7	20	44	6.2	21	10	1.4	.67	.33	.27
15	.45	.32	4.0	15	33	8.8	22	9.3	1.4	.67	.31	.26
16	.44	.33	3.7	12	34	9.7	31	8.0	1.6	.62	.30	.26
17	.45	.36	5.6	10	32	8.8	59	7.2	1.7	.62	.30	.26
18	.48	.43	5.3	8.8	32	8.4	40	6.2	1.4	.57	.30	.26
19	.44	2.4	4.4	7.2	31	8.0	28	5.9	1.4	.57	.30	.25
20	.44	1.8	4.0	6.5	30	7.2	20	5.3	1.3	.57	.30	.25
21	.44	1.0	3.5	5.9	39	6.9	15	5.0	1.2	.52	.30	.25
22	.44	.76	3.3	5.3	36	6.2	13	4.7	1.2	.52	.30	.24
23	.44	.61	3.0	4.7	46	5.6	10	4.2	1.2	.48	.28	.24
24	.44	.53	2.8	4.7	46	5.0	10	4.0	1.1	.48	.28	.24
25	.40	.49	2.6	4.4	36	4.7	8.8	3.7	1.1	.44	.28	.24
26	.40	.48	2.4	4.0	76	4.7	8.0	3.5	1.1	.44	.28	.23
27	.40	.44	2.1	4.0	50	5.0	7.6	3.3	1.1	.44	.28	.23
28	.40	.52	1.9	3.7	80	4.7	6.5	3.1	1.1	.48	.28	.23
29	.49	6.4	1.8	3.5	---	4.7	6.2	2.9	1.1	.48	.28	.23
30	.48	14	1.7	3.3	---	4.2	5.9	2.9	1.1	.44	.28	.23
31	.44	---	1.6	3.1	---	4.0	---	2.7	---	.40	.30	---
TOTAL	15.55	35.81	166.5	368.2	797.2	378.4	461.0	380.0	46.5	20.85	9.84	8.77
MEAN	.50	1.19	5.37	11.9	28.5	12.2	15.4	12.3	1.55	.67	.32	.29
MAX	.68	14	20	120	84	49	59	59	2.7	1.1	.40	.60
MIN	.40	.32	1.6	1.1	2.4	4.0	2.9	2.7	1.1	.40	.28	.23
AC-FT	31	71	330	730	1580	751	914	754	92	41	20	17
CAL YR 1978	TOTAL	2746.75	MEAN	7.53	MAX	86	MIN	.32	AC-FT	5450		
WTR YR 1979	TOTAL	2688.62	MEAN	7.37	MAX	120	MIN	.23	AC-FT	5330		

REDWOOD CREEK BASIN

11482468 LITTLE LOST MAN CREEK AT SITE NO. 2, NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

CHEMICAL ANALYSES: Water years 1974-77.

SEDIMENT RECORDS: Water years 1974-76, 1978 to current year.

REMARKS.--Prior to October 1975, published in Geological Survey Open-File Report 76-678, "Redwood National Park Studies", Data Release Number 2.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (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
OCT										
05...	1310	13.0	.62	2	.00	--	--	--	--	--
31...	1420	10.0	.44	2	.00	--	--	--	--	--
NOV										
30...	1240	9.0	2.9	1	.01	--	--	--	--	--
DEC										
27...	1130	6.0	2.0	1	.01	--	--	--	--	--
JAN										
11...	1330	9.5	80	69	15	65	--	--	--	--
17...	1500	7.5	10	4	.11	--	--	--	--	--
FEB										
13...	1115	--	102	53	15	78	--	--	--	--
13...	1145	--	100	38	10	88	94	97	99	100
20...	1645	8.5	31	5	.42	--	--	--	--	--
28...	0805	--	94	27	6.9	78	--	--	--	--
28...	1130	--	88	21	5.0	81	86	92	95	100
MAR										
30...	1630	12.0	4.2	1	.01	--	--	--	--	--
MAY										
07...	1415	9.0	68	31	5.7	80	88	95	100	--
11...	1520	--	18	9	.44	63	--	--	--	--
JUN										
13...	1615	13.0	1.5	1	.00	--	--	--	--	--
AUG										
07...	1345	16.0	.33	1	.00	--	--	--	--	--
SEP										
06...	1625	15.5	.28	3	.00	--	--	--	--	--

11482500 REDWOOD CREEK AT ORICK, CA

LOCATION.--Lat 41°17'18", long 124°03'27", in NE¼ 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 (1.4 km) downstream from Prairie Creek.

DRAINAGE AREA.--278 mi² (720 km²).

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 (1.573 m) 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.--28 years, 1,054 ft³/s (29.85 m³/s), 763,600 acre-ft/yr (942 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,500 ft³/s (1,430 m³/s) Dec. 22, 1964, gage height, 24.0 ft (7.32 m), from outside high-water marks; minimum, 9.3 ft³/s (0.26 m³/s) Oct. 17-19, 21, 23-26, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 18, 1953, reached a stage of 23.95 ft (7.300 m), from floodmarks, discharge, 50,000 ft³/s (1,420 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,100 ft³/s (399 m³/s) Jan. 11 (1245 hrs), gage height, 14.62 ft (4.456 m), no other peak above base of 9,000 ft³/s (255 m³/s); minimum daily, 15 ft³/s (0.42 m³/s) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	25	1510	104	295	4280	521	868	334	111	43	27
2	37	25	543	102	285	3340	491	793	311	109	42	80
3	36	25	317	101	270	3690	459	722	298	107	42	55
4	36	25	303	102	260	3390	431	694	285	106	41	42
5	35	25	570	98	265	2910	410	1450	276	101	39	36
6	34	25	388	95	285	2590	407	3190	260	95	39	33
7	34	25	273	92	310	2320	392	4920	256	93	37	30
8	34	26	218	116	335	2040	379	4160	236	90	36	28
9	33	25	190	227	365	1800	458	2970	228	91	36	28
10	33	24	183	693	450	1580	526	2360	219	140	34	26
11	32	24	305	9250	1200	1410	2730	1950	213	115	33	25
12	32	25	327	5340	1290	1290	1960	1660	204	96	31	23
13	32	28	258	2960	6540	1160	1690	1440	195	89	31	22
14	30	30	217	2090	3830	1060	1440	1280	189	84	31	21
15	30	31	194	1620	2290	1180	1390	1140	185	81	30	21
16	30	32	178	1160	2080	1230	1910	1020	186	71	30	20
17	31	34	246	901	1740	1100	3010	960	217	69	29	19
18	30	37	245	750	2170	1020	2470	875	211	63	29	19
19	28	105	205	650	2190	990	2000	795	189	58	29	18
20	27	205	179	590	2070	910	1710	730	177	51	29	18
21	28	189	165	555	2690	837	1480	695	166	53	29	17
22	26	135	157	500	2630	777	1310	650	161	53	28	17
23	26	102	154	460	3520	718	1210	625	153	52	28	18
24	27	77	150	415	3390	665	1250	585	147	49	28	18
25	25	60	146	450	2710	620	1090	550	140	49	27	17
26	27	51	140	405	3590	597	1020	515	139	47	27	16
27	27	46	133	370	2860	646	1120	485	134	45	27	16
28	29	48	127	375	5570	757	980	445	127	45	26	16
29	27	204	120	350	---	667	889	405	118	47	26	15
30	26	429	113	325	---	617	839	377	112	45	26	15
31	26	---	106	310	---	563	---	352	---	45	27	---
TOTAL	948	2142	8360	31556	55480	46754	35972	39661	6066	2350	990	756
MEAN	30.6	71.4	270	1018	1981	1508	1199	1279	202	75.8	31.9	25.2
MAX	40	429	1510	9250	6540	4280	3010	4920	334	140	43	80
MIN	25	24	106	92	260	563	379	352	112	45	26	15
AC-FT	1880	4250	16580	62590	110000	92740	71350	78670	12030	4660	1960	1500
CAL YR 1978	TOTAL	275331	MEAN 754	MAX 8580	MIN 24	AC-FT 546100						
WTR YR 1979	TOTAL	231035	MEAN 633	MAX 9250	MIN 15	AC-FT 458300						

REDWOOD CREEK BASIN

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 to current year.
 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 current year.
 SEDIMENT RECORDS: March 1970 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

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.

COOPERATION.--Chemical-quality records were furnished by California Department of Water Resources.

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, 1978-79.
 SEDIMENT DISCHARGE: Maximum daily, 1,070,000 tons (971,000 metric tons) Mar. 18, 1975; minimum daily, 0.03 ton (0.03 metric ton) Oct. 7, 8, 11, 12, 1970.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 23.0°C July 12-15, 23; minimum recorded, 3.5°C Feb. 2-3.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,220 mg/L Jan. 11; minimum daily mean, 1 mg/L many days.
 SEDIMENT DISCHARGE: Maximum daily, 98,100 tons (89,000 metric tons) Jan. 11; minimum daily, 0.08 ton (0.07 metric ton) Aug. 15-19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS (MG/L AS CACO3)
OCT								
02...	1300	87	161	7.8	18.5	1.0	10.8	115
NOV								
06...	1440	66	174	7.7	15.0	1.0	10.8	107
DEC								
05...	1420	692	138	7.4	9.0	10	11.1	96
JAN								
02...	1425	171	155	7.1	7.5	1.0	12.0	100
FEB								
13...	1530	8970	77	7.9	9.5	220	11.1	97
MAR								
12...	1355	1390	90	7.1	13.0	18	10.4	98
APR								
03...	1530	460	109	7.4	14.0	3.0	10.6	102
MAY								
07...	1530	6400	83	7.1	12.0	210	11.0	102
JUN								
06...	0825	302	122	7.3	15.0	1.0	9.8	97
JUL								
09...	1400	92	142	7.3	17.5	1.0	9.0	94
AUG								
07...	1325	31	151	7.3	19.0	1.0	9.3	100
SEP								
04...	1410	36	165	7.6	21.5	1.0	9.1	102

11482500 REDWOOD CREEK AT ORICK, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PEPCENT	SODIUM AD- SORP- TION RATIO	ALKA- LINITY (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	BORON, DIS- SOLVED (UG/L AS B)
OCT 02...	--	--	--	--	--	--	--	--	--
NOV 06...	--	--	--	--	--	--	--	--	--
DEC 05...	--	--	--	--	--	--	--	--	--
JAN 02...	--	--	--	--	--	--	--	--	--
FEB 13...	--	--	--	--	--	--	--	--	--
MAR 12...	--	--	--	--	--	--	--	--	--
APR 03...	--	--	--	--	--	--	--	--	--
MAY 07...	3	10	1.0	3.0	18	.2	26	2.0	0
JUN 06...	--	--	--	--	--	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--	--
AUG 07...	--	--	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	--	--

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.5	16.0	13.5	12.5	11.5	10.5	6.0	4.5	6.5	4.5	8.5	7.5
2	17.5	15.5	13.5	12.5	10.5	10.0	7.0	5.0	6.5	3.5	8.5	7.5
3	16.5	15.0	13.5	12.5	10.5	9.0	8.5	6.5	7.0	3.5	9.0	8.5
4	16.0	15.5	14.0	13.5	10.5	9.5	8.0	6.5	8.0	5.0	10.0	9.0
5	16.0	15.0	14.0	13.0	9.5	8.0	8.0	7.0	7.5	6.5	11.0	9.5
6	16.0	15.5	14.0	13.0	8.5	7.5	8.5	7.5	9.0	7.0	11.5	10.0
7	16.5	15.0	14.0	13.0	8.0	6.5	8.5	7.5	8.5	7.5	12.0	10.5
8	16.5	15.0	14.0	13.0	7.5	6.5	9.0	8.5	8.5	7.5	12.5	10.0
9	17.0	15.5	14.0	13.0	8.5	7.5	10.5	9.0	9.0	8.0	12.0	9.5
10	17.0	15.5	13.0	10.5	9.5	8.5	10.5	10.0	9.0	8.5	11.0	10.5
11	16.5	15.5	11.0	10.5	9.5	9.0	10.0	9.0	9.0	9.0	11.0	10.5
12	17.0	15.5	11.0	10.0	9.0	8.0	9.0	8.5	9.0	9.0	12.5	10.0
13	17.0	15.5	11.0	10.0	9.0	8.0	9.0	8.0	9.0	9.0	11.0	10.0
14	16.5	15.5	11.5	10.5	8.5	7.0	8.5	7.0	9.0	8.0	11.0	10.5
15	16.5	16.0	12.5	11.5	8.5	7.0	7.5	6.5	8.0	7.5	11.0	9.5
16	17.0	16.0	12.5	12.0	7.0	6.0	---	---	8.5	7.5	10.0	9.0
17	17.0	16.0	12.5	12.5	7.5	7.0	7.0	7.0	9.0	8.5	10.0	9.0
18	16.5	15.5	12.5	11.5	7.0	6.0	8.0	6.5	9.0	8.5	10.5	9.0
19	16.0	15.5	12.0	11.5	6.5	5.0	8.0	6.5	9.5	8.0	12.5	8.5
20	16.0	15.5	12.0	11.0	6.0	5.0	8.0	6.0	9.0	8.5	12.0	8.5
21	16.0	15.5	12.0	11.0	7.5	6.0	8.5	7.0	9.0	8.0	9.5	9.0
22	16.0	14.5	11.5	10.5	7.5	6.5	8.0	6.5	8.5	8.0	12.0	9.0
23	15.5	14.5	11.5	10.0	8.5	7.5	7.5	5.5	8.0	7.5	12.5	8.5
24	15.5	14.5	11.0	10.0	8.5	7.0	7.5	6.5	8.5	7.5	12.0	9.0
25	15.0	14.5	11.0	10.0	8.0	6.5	7.5	5.5	9.0	8.5	12.0	9.5
26	15.0	15.0	11.5	11.0	7.5	6.5	7.0	4.5	9.0	8.5	10.5	9.5
27	15.5	15.0	---	---	8.0	7.0	7.0	5.5	8.5	8.0	11.5	9.5
28	15.0	14.5	11.5	11.5	7.5	6.0	7.0	5.0	8.5	8.0	12.5	9.0
29	15.0	14.0	11.5	11.5	6.5	5.0	6.5	4.0	---	---	12.5	9.5
30	14.5	13.5	11.5	11.5	6.0	4.5	7.0	5.0	---	---	12.5	9.0
31	14.0	12.5	---	---	6.0	4.0	7.0	4.5	---	---	12.5	8.5
MONTH	17.5	12.5	14.0	10.0	11.5	4.0	10.5	4.0	9.5	3.5	12.5	7.5

REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	9.0	14.0	12.0	21.0	14.5	20.0	16.5	17.5	16.5	19.5	16.5
2	12.5	9.0	16.5	11.5	21.5	15.0	21.5	14.5	20.5	16.0	19.5	17.0
3	13.0	9.5	13.5	13.0	20.5	15.5	21.0	14.5	21.5	15.5	21.5	17.5
4	14.5	9.5	13.0	12.5	21.0	15.5	19.0	16.5	18.5	15.0	20.5	16.5
5	11.5	10.0	13.5	12.0	21.0	15.0	22.0	15.5	21.0	15.5	---	---
6	13.0	10.5	12.0	10.5	20.5	13.5	21.0	16.0	21.0	15.0	---	---
7	14.5	10.0	11.0	10.0	21.0	14.0	22.0	16.0	20.0	15.5	---	---
8	12.0	10.5	10.5	9.5	20.0	20.0	21.5	16.5	20.5	15.5	---	---
9	12.5	10.0	13.0	10.5	---	---	18.0	16.5	19.5	15.5	---	---
10	10.5	9.5	14.0	11.0	---	---	22.0	16.5	17.5	16.0	---	---
11	10.5	9.5	14.5	11.5	---	---	22.5	16.0	20.0	15.0	---	---
12	11.0	9.5	16.0	12.0	---	---	23.0	17.0	18.0	15.5	---	---
13	12.5	10.0	16.0	12.5	20.5	15.5	23.0	16.0	19.0	15.5	---	---
14	11.5	9.5	15.0	13.5	20.5	13.5	23.0	16.0	20.5	15.0	---	---
15	12.0	10.5	14.5	13.5	20.5	14.0	23.0	17.0	21.0	15.5	---	---
16	12.0	10.0	16.5	13.5	16.0	14.0	22.5	16.5	21.0	16.0	---	---
17	11.0	9.5	18.0	13.0	19.5	14.0	22.0	17.0	21.0	16.0	---	---
18	11.5	8.5	18.5	13.5	21.0	14.5	21.5	17.0	21.0	16.0	---	---
19	11.5	8.0	19.0	14.0	21.5	14.0	22.5	17.0	20.0	17.0	---	---
20	12.5	9.0	16.0	14.5	21.0	15.0	22.5	17.0	19.5	16.0	---	---
21	12.0	9.5	15.5	14.5	21.5	15.5	21.5	17.0	20.5	16.0	---	---
22	13.5	10.5	16.5	14.0	21.5	14.5	22.5	16.5	21.5	16.0	---	---
23	12.0	10.5	17.0	14.5	21.5	15.0	23.0	16.5	21.5	16.0	---	---
24	13.5	10.5	19.5	14.5	21.5	15.5	22.5	16.5	21.5	15.5	---	---
25	15.0	10.5	20.5	14.5	19.5	16.0	22.5	16.5	20.5	17.0	---	---
26	13.0	12.0	17.0	15.0	17.5	16.0	21.5	16.5	21.5	17.0	---	---
27	15.0	12.0	18.5	13.5	20.5	15.5	18.0	16.5	20.0	17.0	---	---
28	15.5	12.0	18.0	13.0	18.5	16.0	22.0	16.0	20.5	16.5	---	---
29	13.5	12.0	---	---	21.0	14.5	22.0	15.5	21.0	17.0	---	---
30	13.5	12.5	19.5	15.0	21.0	15.0	22.5	16.5	20.5	17.0	---	---
31	---	---	20.0	13.5	---	---	21.0	16.5	21.0	16.0	---	---
MONTH	15.5	8.0	20.5	9.5	21.5	13.5	23.0	14.5	21.5	15.0	21.5	16.5
YEAR	23.0	3.5										

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	40	2	.22	25	2	.14	1510	643	2680
2	37	2	.20	25	2	.14	543	52	76
3	36	2	.19	25	2	.14	317	22	19
4	36	3	.29	25	3	.20	303	21	17
5	35	4	.38	25	4	.27	570	51	78
6	34	2	.18	25	5	.34	388	18	19
7	34	2	.18	25	2	.14	273	8	5.9
8	34	2	.18	26	5	.35	218	7	4.1
9	33	2	.18	25	5	.34	190	6	3.1
10	33	2	.18	24	4	.26	183	6	3.0
11	32	2	.17	24	3	.19	305	23	22
12	32	2	.17	25	2	.14	327	12	11
13	32	3	.26	28	2	.15	258	6	4.2
14	30	5	.41	30	2	.16	217	4	2.3
15	30	4	.32	31	2	.17	194	4	2.1
16	30	3	.24	32	3	.26	178	3	1.4
17	31	3	.25	34	3	.28	246	10	6.6
18	30	2	.16	37	3	.30	245	4	2.6
19	28	2	.15	105	34	12	205	3	1.7
20	27	2	.15	205	19	11	179	2	.97
21	28	2	.15	189	7	3.6	165	2	.89
22	26	2	.14	135	3	1.1	157	2	.85
23	26	2	.14	102	3	.83	154	2	.83
24	27	2	.15	77	3	.62	150	2	.81
25	25	2	.14	60	3	.49	146	2	.79
26	27	3	.22	51	2	.28	140	2	.76
27	27	3	.22	46	2	.25	133	3	1.1
28	29	3	.23	48	5	.65	127	2	.69
29	27	2	.15	204	65	60	120	2	.65
30	26	2	.14	429	122	212	113	1	.31
31	26	2	.14	---	---	---	106	1	.29
TOTAL	948	---	6.28	2142	---	306.79	8360	---	2967.94

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	104	1	.28	295	4	3.2	4280	490	5660
2	102	1	.28	285	4	3.1	3340	262	2360
3	101	1	.27	270	3	2.2	3690	388	3870
4	102	1	.28	260	3	2.1	3390	280	2560
5	98	1	.26	265	2	1.4	2910	200	1570
6	95	1	.26	285	5	3.8	2590	200	1400
7	92	1	.25	310	4	3.3	2320	152	952
8	116	3	.94	335	5	4.5	2040	121	666
9	227	40	.26	365	4	3.9	1800	106	515
10	693	234	1460	450	10	12	1580	93	397
11	9250	3220	98100	1200	410	1490	1410	81	308
12	5340	1100	17400	1290	171	658	1290	68	237
13	2960	394	3150	6540	1850	36300	1160	55	172
14	2090	250	1410	3830	659	7500	1060	49	140
15	1620	152	665	2290	319	1970	1180	62	198
16	1160	102	319	2080	244	1370	1230	66	219
17	901	70	170	1740	161	756	1100	48	143
18	750	72	146	2170	306	1980	1020	41	113
19	650	40	70	2190	234	1380	990	37	99
20	590	27	43	2070	212	1320	910	32	79
21	555	22	33	2690	345	2510	837	24	54
22	500	16	22	2630	267	1900	777	23	49
23	460	15	19	3520	532	5060	718	20	39
24	415	12	13	3390	379	3470	665	15	26
25	450	10	12	2710	213	1560	620	12	20
26	405	8	8.7	3590	381	3690	597	11	17
27	370	7	7.0	2860	215	1680	646	14	24
28	375	6	6.1	5570	1340	21900	757	43	89
29	350	6	5.7	---	---	---	667	17	31
30	325	5	4.4	---	---	---	617	13	22
31	310	4	3.3	---	---	---	563	12	18
TOTAL	31556	---	123096.0	55480	---	96533.5	46754	---	22047
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	521	8	11	868	24	56	334	4	3.6
2	491	8	11	793	19	41	311	4	3.4
3	459	7	8.7	722	20	39	298	3	2.4
4	431	6	7.0	694	19	36	285	3	2.3
5	410	6	6.6	1450	345	1860	276	3	2.2
6	407	6	6.6	3190	812	7660	260	3	2.1
7	392	6	6.4	4920	911	12500	256	3	2.1
8	379	7	7.2	4160	451	5070	236	3	1.9
9	458	8	9.9	2970	265	2130	228	4	2.5
10	526	10	14	2360	193	1230	219	3	1.8
11	2730	693	5860	1950	132	695	213	2	1.2
12	1960	204	1080	1660	101	453	204	2	1.1
13	1690	113	516	1440	77	299	195	2	1.1
14	1440	69	268	1280	62	214	189	2	1.0
15	1390	51	191	1140	53	163	185	3	1.5
16	1910	217	1340	1020	46	127	186	3	1.5
17	3010	344	2800	960	41	106	217	2	1.2
18	2470	138	920	875	36	85	211	2	1.1
19	2000	80	432	795	26	56	189	2	1.0
20	1710	61	282	730	19	37	177	2	.96
21	1480	53	212	695	17	32	166	2	.90
22	1310	45	159	650	16	28	161	2	.87
23	1210	40	132	625	12	21	153	2	.83
24	1250	49	165	585	10	15	147	3	1.2
25	1090	34	100	550	9	13	140	3	1.1
26	1020	32	88	515	8	11	139	2	.75
27	1120	42	127	485	8	10	134	2	.72
28	980	30	79	445	7	8.4	127	3	1.0
29	889	25	59	405	6	6.6	118	3	.96
30	839	23	52	377	5	5.1	112	3	.91
31	---	---	---	352	5	4.8	---	---	---
TOTAL	35972	---	14950.4	39661	---	33011.9	6066	---	45.20

REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	111	2	.60	43	2	.23	27	2	.15
2	109	2	.59	42	3	.34	80	6	1.3
3	107	2	.58	42	2	.23	55	5	.74
4	106	2	.57	41	1	.11	42	4	.45
5	101	2	.55	39	1	.11	36	4	.39
6	95	2	.51	39	1	.11	33	3	.27
7	93	2	.50	37	1	.10	30	3	.24
8	90	2	.49	36	1	.10	28	3	.23
9	91	3	.74	36	2	.19	28	3	.23
10	140	4	1.5	34	3	.28	26	2	.14
11	115	2	.62	33	2	.18	25	2	.14
12	96	1	.26	31	2	.17	23	2	.12
13	89	1	.24	31	2	.17	22	2	.12
14	84	1	.23	31	2	.17	21	2	.11
15	81	1	.22	30	1	.08	21	2	.11
16	71	1	.19	30	1	.08	20	2	.11
17	69	2	.37	29	1	.08	19	2	.10
18	63	2	.34	29	1	.08	19	2	.10
19	58	2	.31	29	1	.08	18	2	.10
20	51	3	.41	29	2	.16	18	2	.10
21	53	2	.29	29	2	.16	17	2	.09
22	53	2	.29	28	2	.15	17	3	.14
23	52	2	.28	28	3	.23	18	3	.15
24	49	2	.26	28	3	.23	18	4	.19
25	49	1	.13	27	2	.15	17	3	.14
26	47	1	.13	27	2	.15	16	3	.13
27	45	2	.24	27	2	.15	16	2	.09
28	45	2	.24	26	2	.14	16	2	.09
29	47	2	.25	26	2	.14	15	3	.12
30	45	2	.24	26	2	.14	15	3	.12
31	45	2	.24	27	2	.15	---	---	---
TOTAL	2350	---	12.41	990	---	4.84	756	---	6.51
YEAR 231035.0			292988.8						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAU DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1978	948.00	6.28	0	6
NOVEMBER ...	2142.00	306.79	27	334
DECEMBER ...	8360.00	2967.94	432	3400
JANUARY 1979	31556.00	123096.20	9860	133000
FEBRUARY ...	55480.00	96533.50	16400	113000
MARCH	46754.00	22047.00	10300	32300
APRIL	35972.00	14950.40	6440	21400
MAY	39661.00	33011.90	8550	41600
JUNE	6066.00	45.20	91	136
JULY	2350.00	12.41	0	12
AUGUST	990.00	4.84	0	5
SEPTEMBER ..	756.00	6.51	0	7
TOTAL	231035.00	292988.97	52100	345200

11482500 REDWOOD CREEK AT ORICK, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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								
11...	1545	10.0	700	4680	8850	--	35	46
17...	1245	7.0	898	70	170	--	--	--
FEB								
13...	1425	9.0	8530	2360	54400	--	30	40
16...	1630	8.5	2110	224	1280	--	--	--
23...	1710	7.0	3640	486	4780	32	38	49
28...	1555	8.5	6090	1220	20100	--	26	38
MAY								
06...	1455	10.5	3810	980	10100	29	32	44
09...	1650	13.0	2820	245	1870	31	37	50

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								
11...	64	79	88	96	100	--	--	--
17...	--	--	72	77	84	98	100	--
FEB								
13...	53	68	79	92	99	100	--	--
16...	--	--	66	73	83	95	100	--
23...	59	71	79	89	96	97	97	100
28...	50	61	69	8	92	97	99	100
MAY								
06...	59	75	88	94	98	99	100	--
09...	60	65	68	74	86	96	98	100

BUTTE VALLEY BASIN

11489500 ANTELOPE CREEK NEAR TENNANT, CA

LOCATION.--Lat 41°32'48", long 121°55'02", in NW¼NW¼ sec.25, T.43 N., R.1 W., Siskiyou County, Hydrologic Unit 18010205, Shasta National Forest, on right bank 2.5 mi (4.0 km) south of Tennant, 4 mi (6 km) downstream from Frog Lake, and 17 mi (27 km) southeast of town of Mount Hebron.

DRAINAGE AREA.--18.6 mi² (48.2 km²).

PERIOD OF RECORD.--May 1952 to September 1979 (discontinued).

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,080 ft (1,548 m), from topographic map.

REMARKS.--Records good except those for the winter period, which are fair. No storage or diversion above station.

AVERAGE DISCHARGE.--27 years, 35.2 ft³/s (0.997 m³/s), 25,500 acre-ft/yr (31.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft³/s (38.2 m³/s) Nov. 11, 1973, gage height, 5.19 ft (1.582 m), from rating curve extended above 180 ft³/s (5.10 m³/s) on basis of slope-area measurement at gage height 4.00 ft (1.219 m); minimum daily, 3.6 ft³/s (0.10 m³/s) Jan. 5, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 100 ft³/s (2.83 m³/s) May 22 (2030 hrs), gage height, 2.55 ft (0.777 m), no other peak above base of 100 ft³/s (2.83 m³/s); maximum gage height, 2.76 ft (0.841 m) Jan. 30, backwater from ice; minimum daily discharge, 5.0 ft³/s (0.14 m³/s) Dec. 29, Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	8.5	13	7.8	5.4	13	16	40	40	15	9.6	9.2
2	13	8.5	10	8.2	5.0	12	16	41	40	15	9.5	13
3	13	8.5	10	8.6	5.2	12	16	46	40	15	9.5	9.4
4	14	8.5	9.9	9.0	6.5	13	17	54	41	15	9.2	9.0
5	11	8.5	11	9.3	7.0	14	20	62	41	14	9.2	8.7
6	9.2	8.4	12	10	8.5	15	22	51	39	14	9.2	8.5
7	9.1	8.5	9.8	11	10	15	20	45	34	14	9.1	8.3
8	9.1	8.2	11	13	13	15	21	42	31	13	9.1	8.2
9	9.0	8.3	12	12	14	15	21	41	29	13	9.0	8.2
10	8.9	8.0	14	14	14	15	19	41	28	13	9.0	8.2
11	8.9	7.8	15	23	17	16	19	40	27	13	9.0	8.0
12	8.8	7.8	15	18	16	16	21	42	26	13	8.8	7.9
13	8.8	7.7	14	15	13	16	24	45	25	12	8.9	7.8
14	8.8	7.7	14	14	20	17	24	50	24	12	9.2	7.7
15	8.5	7.6	13	14	17	20	24	60	23	12	9.0	7.6
16	8.7	7.9	12	14	15	18	29	67	23	12	8.9	7.6
17	8.8	8.0	11	16	15	16	24	69	24	11	8.8	7.5
18	8.7	8.3	9.8	17	14	16	22	74	22	11	8.7	7.5
19	8.7	8.7	7.4	18	14	15	21	77	21	11	8.7	7.6
20	8.6	8.8	7.0	17	13	16	22	78	20	11	9.4	7.8
21	8.6	8.8	8.0	17	13	16	23	86	20	11	9.2	7.6
22	8.5	8.5	8.5	16	13	16	26	92	19	11	8.9	7.6
23	8.5	8.9	7.5	15	13	16	25	82	18	11	8.7	7.6
24	8.5	8.6	6.4	12	13	16	24	75	18	11	8.7	7.6
25	8.5	8.5	5.6	9.8	13	17	24	69	18	10	8.6	8.5
26	8.5	8.4	5.4	8.2	13	18	30	68	17	10	8.5	8.4
27	8.5	8.2	5.7	6.7	13	17	40	64	17	10	8.4	8.1
28	8.5	9.3	5.9	6.3	13	18	35	55	16	10	9.1	7.9
29	8.5	11	5.0	6.0	---	17	34	47	16	9.9	10	7.9
30	8.5	12	5.7	6.1	---	16	36	44	15	9.8	9.8	7.8
31	8.5	---	6.5	5.8	---	16	---	41	---	9.7	9.4	---
TOTAL	290.2	256.4	301.1	377.8	346.6	488	715	1788	772	372.4	281.1	246.7
MEAN	9.36	8.55	9.71	12.2	12.4	15.7	23.8	57.7	25.7	12.0	9.07	8.22
MAX	14	12	15	23	20	20	40	92	41	15	10	13
MIN	8.5	7.6	5.0	5.8	5.0	12	16	40	15	9.7	8.4	7.5
AC-FT	576	509	597	749	687	968	1420	3550	1530	739	558	489
CAL YR 1978	TOTAL	13366.7	MEAN	36.6	MAX	142	MIN	5.0	AC-FT	26510		
WTR YR 1979	TOTAL	6235.3	MEAN	17.1	MAX	92	MIN	5.0	AC-FT	12370		

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 (1.1 km) downstream from John C. Boyle powerplant, 8 mi (13 km) downstream from Spencer Creek, and 8.5 mi (13.7 km) southwest of Keno.

DRAINAGE AREA.--4,080 mi² (10,570 km²), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--January 1959 to current year. Prior to Oct. 1, 1961, published as "below Big Bend powerplant."

GAGE.--Water-stage recorder. Datum of gage is 3,274.82 ft (998.165 m) National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.).

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake (see station 11507001). Large diurnal fluctuation caused by John C. Boyle powerplant and two powerplants below Upper Klamath Lake. Diversions for irrigation above station.

AVERAGE DISCHARGE.--20 years, 1,851 ft³/s (52.42 m³/s), 1,341,000 acre-ft/yr (1.65 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft³/s (312 m³/s) Mar. 5, 1972, gage height, 9.33 ft (2.844 m); minimum, 283 ft³/s (8.01 m³/s) Feb. 17, 1968; minimum daily, 317 ft³/s (8.98 m³/s) July 25, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,840 ft³/s (80.4 m³/s) Nov. 17, gage height, 5.77 ft (1.759 m); minimum, 326 ft³/s (9.23 m³/s) June 6; minimum daily, 344 ft³/s (9.74 m³/s) July 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1120	1120	1520	2630	2730	1770	1710	934	712	667	997	1030
2	1120	1220	1520	2620	2480	1950	1670	760	748	667	983	1030
3	1160	1250	1520	2260	1500	1970	1270	754	760	718	983	1020
4	1180	1520	1730	1500	1470	1980	1140	760	754	712	983	1030
5	1220	1240	1520	1510	1470	2170	1190	820	846	808	976	1030
6	1230	1210	1750	1960	1220	2110	1700	1090	833	802	983	1030
7	1190	1210	1810	2680	1190	2260	2260	1310	892	808	955	1020
8	1190	1210	1830	2680	1200	2430	885	1740	885	667	990	976
9	1190	1210	1600	2700	1110	2480	892	2370	852	661	1000	976
10	1230	1210	1480	2080	1160	2810	941	2740	846	346	990	990
11	1230	1240	1660	1440	1170	2800	1020	2800	620	344	983	1020
12	1240	1240	1520	1290	1150	2750	1030	2740	575	344	990	1120
13	1210	1450	1670	1660	969	2700	1020	2740	575	454	983	1160
14	1240	1760	1600	1480	976	2430	969	2740	575	494	899	1180
15	1240	2030	1670	1480	990	2730	969	1740	575	472	892	1160
16	1230	1750	1600	1470	1000	2730	976	1300	575	483	948	1180
17	1240	1650	1490	1440	976	2630	839	625	575	497	934	1210
18	1240	1490	1720	1440	976	2390	839	712	570	495	941	1240
19	1210	1490	1560	1440	1070	2420	885	724	575	452	941	1210
20	1210	1670	1540	1420	1200	2710	941	724	570	580	934	1230
21	1210	1660	1500	1450	1250	2710	892	899	575	766	802	1210
22	1220	1650	1510	1450	1240	2240	899	802	570	718	802	1180
23	1270	1490	1510	1440	1220	2040	899	754	620	712	885	1160
24	1500	1650	1520	1410	1170	2070	990	760	615	718	892	1230
25	1240	1490	1520	1420	1170	2080	990	754	620	748	892	1210
26	1240	1490	1540	1570	1230	2280	990	760	615	718	892	1230
27	1240	1660	1530	1530	1490	1950	976	754	625	712	892	1210
28	1240	1680	1730	1550	1520	1920	990	754	661	760	934	1230
29	1220	1650	1520	1530	---	1660	976	748	667	760	941	1210
30	1240	1660	1970	1520	---	1760	1030	760	661	754	934	1230
31	1260	---	2500	1930	---	1700	---	706	---	796	1030	---
TOTAL	38000	44250	50660	53980	36297	70630	32778	38574	20142	19633	29181	33942
MEAN	1226	1475	1634	1741	1296	2278	1093	1244	671	633	941	1131
MAX	1500	2030	2500	2700	2730	2810	2260	2800	892	808	1030	1240
MIN	1120	1120	1480	1290	969	1660	839	625	570	344	802	976
AC-FT	75370	87770	100500	107100	72000	140100	65020	76510	39950	38940	57880	67320
CAL YR 1978	TOTAL	675585	MEAN	1851	MAX	5100	MIN	354	AC-FT	1340000		
WTR YR 1979	TOTAL	468067	MEAN	1282	MAX	2810	MIN	344	AC-FT	928400		

KLAMATH RIVER BASIN

RESERVOIRS IN KLAMATH RIVER BASIN, CA

11511400 COPCO LAKE NEAR COPCO.--Lat 41°58'46", long 122°20'00", in SE½SW¼ sec.29, T.48 N., R.4 W., Siskiyou County, Hydrologic Unit 18010206, 12.7 mi (20.4 km) northeast of Hornbrook. DRAINAGE AREA, 4,300 mi² (11,137 km²). PERIOD OF RECORD, October 1967 to current year. GAGE, 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 (794.77 m) is 46,867 acre-ft (57.8 hm³). Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.
 EXTREMES FOR PERIOD OF RECORD: Maximum contents, 46,818 acre-ft (57.7 hm³) June 24, 1969, elevation, 2,607.45 ft (794.751 m); minimum, 30,360 acre-ft (37.4 hm³) Aug. 19, 1971, elevation, 2,589.24 ft (789.200 m).
 EXTREMES FOR CURRENT YEAR: Maximum contents, 45,803 acre-ft (56.5 hm³) July 9, elevation, 2,606.42 ft (794.437 m); minimum 40,207 acre-ft (49.6 hm³) Sept. 16, elevation, 2,600.54 ft (792.645 m).

11516510 IRON GATE RESERVOIR NEAR HORNBOOK.--Lat 41°55'58", long 122°26'06", in SW¼SW¼ sec.9, T.47 N., R.5 W., Siskiyou County, Hydrologic Unit 18010206, 6.6 mi (10.6 km) northeast of Hornbrook. DRAINAGE AREA, 4,573 mi² (11,844 km²). PERIOD OF RECORD, October 1967 to current year. GAGE, 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 (72.5 hm³) at elevation 2,328.0 ft (709.57 m), crest of spillway. Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.
 EXTREMES FOR PERIOD OF RECORD: Maximum contents, 61,776 acre-ft (76.2 hm³) Mar. 3, 1972, elevation, 2,330.96 ft (710.477 m); minimum, 50,103 acre-ft (61.8 hm³) Dec. 9, 1968, elevation, 2,318.40 ft (706.648 m).
 EXTREMES FOR CURRENT YEAR: Maximum contents, 59,398 acre-ft (73.2 hm³) Jan. 2, 3, May 12; elevation, 2,328.61 ft (709.760 m); minimum, 55,540 acre-ft (68.5 hm³) Oct. 23, elevation, 2,324.58 ft (708.532 m).

MONTHEND ELEVATION NGVD AND CONTENTS AT 0800, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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.....	2,602.99	42,498	--	2,325.24	56,154	--
Oct. 31.....	2,603.92	43,382	+884	2,326.00	56,867	+713
Nov. 30.....	2,604.39	43,832	+450	2,326.97	57,793	+926
Dec. 31.....	2,604.51	43,948	+116	2,326.20	57,058	-735
CAL YR 1978.....	--	--	+3,176	--	--	-2,686
Jan. 31.....	2,605.31	44,720	+772	2,324.91	55,845	-1,213
Feb. 28.....	2,602.22	41,772	-2,948	2,325.39	56,295	+450
Mar. 31.....	2,601.90	41,472	-300	2,328.08	58,873	+2,578
Apr. 30.....	2,603.57	43,049	+1,577	2,325.35	56,257	-2,616
May 31.....	2,604.18	43,631	+582	2,325.06	55,984	-273
June 30.....	2,605.32	44,729	+1,098	2,326.44	57,287	+1,303
July 31.....	2,602.80	42,319	-2,410	2,326.61	57,450	+163
Aug. 31.....	2,603.68	43,154	+835	2,326.80	57,631	+181
Sept. 30.....	2,600.68	40,336	-2,818	2,325.48	56,379	-1,252
WTR YR 1979.....	--	--	-2,162	--	--	+225

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA

LOCATION.--Lat 41°55'41", long 122°26'35", in SE&NE¼ sec.17, T.47 N., R.5 W., Siskiyou County, Hydrologic Unit 18010206, on left bank 0.1 mi (0.2 km) downstream from Bogus Creek, 0.6 mi (1.0 km) downstream from Iron Gate Dam, and 5.9 mi (9.5 km) northeast of Hornbrook.

DRAINAGE AREA.--4,630 mi² (11,990 km²), approximately (not including Lost River and Lower Klamath Lake basins).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 2,162.44 ft (659.112 m) 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 (646 hm³), Iron Gate Reservoir (station 11516510), other smaller reservoirs, and diversions above station.

AVERAGE DISCHARGE.--19 years, 2,215 ft³/s (62.73 m³/s), 1,605,000 acre-ft/yr (1.98 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft³/s (833 m³/s) Dec. 22, 1964, gage height, 13.63 ft (4.154 m), from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 647 ft³/s (18.3 m³/s) Oct. 30, Nov. 6, 1960, Sept. 24, Oct. 1, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,320 ft³/s (94.0 m³/s) Jan. 2, gage height, 5.44 ft (1.658 m); minimum daily, 696 ft³/s (19.7 m³/s) July 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1320	1350	1830	2400	1940	1830	2010	1220	742	698	1060	1300
2	1320	1340	1830	3300	2840	1830	1940	1030	723	697	1050	1300
3	1310	1340	1830	2970	2070	2070	1620	1020	721	696	1040	1290
4	1320	1350	1830	1830	1820	2480	1400	1020	732	697	1050	1290
5	1320	1350	1830	1820	1700	2530	1410	1060	729	698	1040	1290
6	1320	1350	1830	1820	1510	2560	1410	1070	728	697	1040	1300
7	1320	1350	1830	2340	1510	2600	1410	1570	730	701	1020	1300
8	1320	1360	1830	2800	1510	2800	1410	2350	731	709	1010	1290
9	1320	1360	1830	2810	1450	2900	1360	2790	731	703	1020	1300
10	1320	1350	1830	2730	1390	3050	1310	3030	771	699	1020	1290
11	1320	1350	1830	1900	1390	3200	1310	3140	858	713	1010	1290
12	1320	1350	1830	2070	1360	3100	1310	3280	730	733	1010	1300
13	1310	1680	1820	2190	1510	2770	1310	3260	733	733	1020	1300
14	1330	1820	1820	1850	1840	2870	1310	3010	733	733	1020	1290
15	1330	1820	1820	1830	1820	3000	1310	2400	736	735	1020	1320
16	1320	1820	1820	1820	1680	3070	1320	1840	742	735	1010	1300
17	1330	1820	1820	1820	1490	3030	1320	1520	734	733	1010	1300
18	1330	1820	1820	1820	1490	2860	1320	1020	734	733	1010	1310
19	1330	1820	1820	1820	1490	2870	1320	1020	730	733	1020	1320
20	1330	1820	1820	1820	1490	3140	1320	1020	730	733	1020	1320
21	1340	1810	1820	1820	1490	3020	1320	1020	724	737	1020	1320
22	1340	1810	1820	1810	1490	2620	1320	1020	718	736	1020	1310
23	1340	1830	1820	1730	1490	2380	1330	1020	723	736	1010	1310
24	1340	1830	1820	1590	1490	2370	1330	1020	722	737	1010	1310
25	1340	1830	1820	1500	1490	2370	1330	1010	727	741	1010	1320
26	1340	1830	1820	1580	1620	2370	1330	1010	707	738	1010	1310
27	1340	1830	1820	1810	1820	2330	1330	1010	705	744	1010	1310
28	1340	1800	1820	1810	1830	2270	1330	1010	703	744	1020	1310
29	1350	1670	1820	1800	---	2150	1330	1010	703	735	1020	1310
30	1350	1830	1820	1810	---	2020	1340	1010	710	746	1020	1310
31	1350	---	1820	1810	---	2010	---	1010	---	1030	1040	---
TOTAL	41210	48690	56540	62830	46020	80470	41720	48820	21940	22733	31690	39120
MEAN	1329	1623	1824	2027	1644	2596	1391	1575	731	733	1022	1304
MAX	1350	1830	1830	3300	2840	3200	2010	3280	858	1030	1060	1320
MIN	1310	1340	1820	1500	1360	1830	1310	1010	703	696	1010	1290
AC-FT	81740	96580	112100	124600	91280	159600	82750	96830	43520	45090	62860	77590
CAL YR 1978	TOTAL	779242	MEAN	2135	MAX	6590	MIN	724	AC-FT	1546000		
WTR YR 1979	TOTAL	541783	MEAN	1484	MAX	3300	MIN	696	AC-FT	1075000		

KLAMATH RIVER BASIN

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to current year.
 CHEMICAL ANALYSES: Water years 1962 to current year.
 WATER TEMPERATURES: Water years 1963 to current year.

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: October 1962 to current year.

INSTRUMENTATION.--Temperature recorder since October 1962.

COOPERATION.--Chemical-quality records furnished by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: Maximum recorded, 23.5°C Aug. 3, 4, 1977, Aug. 10, 1978; minimum recorded, 0.5°C on many days in 1972.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum recorded, 22.5°C Aug. 2; minimum recorded, 2.0°C on several days during January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOLOGICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CaCO3)
OCT										
11...	0910	1320	195	8.4	15.0	2.0	9.6	--	--	--
NOV										
16...	1145	1820	197	7.1	9.0	3.0	7.6	--	--	--
DEC										
14...	0930	1830	161	7.1	4.0	4.0	10.1	--	--	--
JAN										
03...	1345	3270	200	7.7	3.0	5.0	13.0	--	--	--
FEB										
06...	0820	1510	231	7.3	3.5	5.0	11.3	--	--	--
MAR										
08...	1135	2850	197	7.4	7.0	5.0	11.4	--	--	--
APR										
12...	1045	1310	229	8.2	11.0	3.0	11.6	--	--	--
MAY										
01...	1115	1340	--	8.5	15.5	3.0	13.8	12	2.0	62
JUN										
12...	0750	721	186	8.7	20.0	1.0	9.0	16	2.3	--
JUL										
16...	1020	737	167	8.7	21.0	2.0	9.9	--	--	--
AUG										
14...	0815	1020	180	8.7	20.0	2.0	7.0	--	--	--
SEP										
11...	1215	1290	--	8.7	20.0	1.0	9.8	16	2.3	50

DATE	HARDNESS, NONCARBONATE (MG/L CaCO3)	CALCIUM, DISSOLVED (MG/L AS Ca)	MAGNESIUM, DISSOLVED (MG/L AS Mg)	SODIUM, DISSOLVED (MG/L AS Na)	SODIUM ADSORPTION RATIO	ALKALINITY (MG/L AS CaCO3)	CHLORIDE, DISSOLVED (MG/L AS Cl)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NITRATE, DISSOLVED (MG/L AS N)
OCT									
11...	--	--	--	--	--	--	--	--	.35
NOV									
16...	--	--	--	--	--	--	--	--	.64
DEC									
14...	--	--	--	--	--	--	--	--	.49
JAN									
03...	--	--	--	--	--	--	--	--	--
FEB									
06...	--	--	--	--	--	--	--	--	--
MAR									
08...	--	--	--	--	--	--	--	--	--
APR									
12...	--	--	--	--	--	--	--	--	--
MAY									
01...	0	13	7.0	16	.9	66	3.0	11	--
JUN									
12...	--	--	--	--	--	--	--	4	--
JUL									
16...	--	--	--	--	--	--	--	--	--
AUG									
14...	--	--	--	--	--	--	--	--	--
SEP									
11...	0	10	6.0	15	.9	66	2.0	4	--

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITRO-GEN, NO ₂ +NO ₃ -DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)
OCT 11...	--	.08	--	1.2	--	1.3	.22	.20	--
NOV 16...	--	.24	--	.80	--	1.0	.24	.17	--
DEC 14...	--	.26	--	.90	--	1.2	.15	.12	--
JAN 03...	.70	--	.37	--	1.2	1.6	.16	.09	--
FEB 06...	.71	--	.38	--	.92	1.3	.16	.12	--
MAR 08...	.45	--	.23	--	.87	1.1	.17	.10	--
APR 12...	.33	--	.02	--	.98	1.0	.12	.04	--
MAY 01...	.15	--	.02	--	1.1	1.1	.08	.00	100
JUN 12...	.07	--	.03	--	.87	.90	.13	.08	--
JUL 16...	.07	--	.03	--	.77	.80	.14	.10	--
AUG 14...	--	--	--	--	--	--	--	--	--
SEP 11...	.46	--	.11	--	1.1	1.2	.22	.17	0

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHROMIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGANESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	CARBON, ORGANIC TOTAL (MG/L AS C)
MAY 01...	1115	0	0	0	0	10	40	0	30	.0	9.9
SEP 11...	1215	10	0	0	0	0	50	0	10	.0	7.7

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.5	12.5	12.0	---	---	2.5	2.5	3.0	2.5	5.5	4.5
2	16.0	15.5	12.5	12.0	---	---	2.5	2.5	3.0	2.5	5.5	4.5
3	16.0	15.0	12.5	12.0	---	---	2.5	2.5	3.5	3.0	5.5	5.0
4	15.5	15.0	12.5	12.0	---	---	2.5	2.5	3.5	3.0	6.0	5.0
5	15.5	15.0	12.0	11.5	---	---	2.5	2.0	3.5	3.0	6.0	5.5
6	15.5	15.0	12.0	11.5	---	---	2.5	2.0	4.0	3.0	6.0	5.5
7	15.5	15.0	12.0	11.5	5.0	5.0	2.5	2.0	3.5	3.0	7.0	5.5
8	15.5	15.0	12.0	11.0	5.0	5.0	2.5	2.0	3.5	3.0	7.0	6.0
9	15.5	10.5	11.5	11.0	5.0	5.0	2.5	2.0	4.0	3.5	7.0	5.5
10	15.5	15.0	11.0	10.5	5.0	5.0	2.5	2.5	4.0	3.5	7.0	6.0
11	15.5	15.0	---	---	5.0	5.0	3.5	2.5	4.0	3.5	7.0	6.5
12	15.5	15.0	---	---	5.0	4.5	3.0	2.5	3.5	3.5	7.5	6.5
13	15.5	15.0	---	---	5.0	4.5	2.5	2.0	4.0	3.5	7.5	7.0
14	15.0	14.5	---	---	4.5	4.0	3.0	2.5	4.0	3.5	8.0	6.5
15	15.5	15.0	---	---	4.5	4.0	3.0	2.5	3.5	3.0	8.0	7.0
16	15.5	15.0	---	---	4.5	4.0	2.5	2.5	4.0	3.5	8.0	7.5
17	15.5	14.5	---	---	4.5	4.0	2.5	2.5	4.0	3.5	8.5	7.5
18	15.0	14.5	---	---	4.0	4.0	2.5	2.0	4.0	3.5	9.0	8.0
19	15.0	14.5	---	---	4.0	3.5	3.0	2.5	4.0	3.5	9.0	8.0
20	15.0	14.5	---	---	3.5	3.5	3.0	2.5	4.0	3.5	9.0	8.0
21	15.0	14.5	---	---	4.0	3.5	3.0	2.5	4.5	3.5	9.0	8.0
22	14.5	14.0	---	---	3.5	3.5	3.0	2.5	4.5	4.0	9.0	8.5
23	14.5	13.5	---	---	4.0	3.5	3.0	2.5	4.0	4.0	10.0	8.5
24	14.5	14.0	---	---	3.5	3.5	3.0	2.5	4.5	3.5	10.5	9.0
25	14.0	13.5	---	---	3.5	3.0	3.0	2.5	4.5	4.0	10.0	9.0
26	14.0	13.5	---	---	3.5	3.0	3.0	2.5	4.5	4.0	9.5	8.5
27	14.0	13.5	---	---	3.0	3.0	3.0	2.5	5.0	4.0	9.0	8.5
28	14.0	13.0	---	---	3.0	2.5	3.0	2.5	5.0	4.5	10.0	8.5
29	13.5	13.0	---	---	2.5	2.5	3.0	2.5	---	---	10.5	9.0
30	13.0	12.5	---	---	2.5	2.5	3.0	2.5	---	---	10.5	9.0
31	13.0	12.5	---	---	3.0	2.5	3.0	2.5	---	---	10.5	9.0
MONTH	16.0	10.5	---	---	5.0	2.5	3.5	2.0	5.0	2.5	10.5	4.5

KLAMATH RIVER BASIN

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.5	14.0	11.5	17.5	15.0	19.5	17.0	21.5	20.0	19.0	18.0
2	10.0	9.5	13.0	11.5	17.0	15.5	19.0	17.0	22.5	20.0	18.5	18.0
3	11.0	9.0	13.5	11.5	18.5	16.0	18.0	17.5	21.5	20.0	19.0	18.0
4	10.5	9.0	12.5	11.0	19.0	16.0	18.0	17.5	21.5	20.0	19.0	18.0
5	10.5	9.5	12.0	11.0	19.0	16.5	18.5	18.0	21.5	20.0	19.0	18.0
6	10.0	9.5	12.0	11.5	18.5	17.5	18.0	17.5	21.0	20.0	18.5	18.0
7	11.5	9.5	12.0	11.0	18.0	16.5	18.5	18.0	21.5	20.0	18.5	18.0
8	10.5	10.0	12.0	10.5	18.5	16.5	18.5	17.0	21.5	20.0	19.0	18.0
9	11.0	10.0	13.0	11.0	18.0	16.5	18.0	16.0	21.5	20.0	19.0	18.0
10	10.0	9.0	13.0	11.5	18.0	17.0	18.5	17.0	21.5	20.0	18.5	18.0
11	10.0	9.5	13.5	11.5	20.0	17.5	19.5	18.0	21.5	20.0	18.5	18.0
12	11.0	9.5	14.0	12.0	20.5	18.5	20.0	18.0	21.5	20.0	18.0	17.5
13	11.5	9.5	14.0	12.0	20.0	18.5	20.0	18.0	20.5	20.0	18.0	17.5
14	10.5	9.5	14.0	12.5	20.0	18.0	20.0	18.5	20.5	19.5	18.0	17.5
15	10.5	9.5	14.5	12.5	20.0	18.0	19.5	18.5	20.5	19.5	18.0	17.5
16	10.5	9.0	16.0	13.0	18.5	17.0	19.5	18.5	20.0	19.5	18.0	17.5
17	10.5	9.5	15.5	13.0	18.0	16.5	20.0	19.0	20.5	19.5	18.0	17.0
18	10.5	9.5	16.0	13.5	17.5	16.5	21.5	19.0	20.5	19.5	18.0	17.0
19	10.5	9.0	16.0	13.5	19.0	16.5	21.0	19.0	20.0	19.5	18.0	17.0
20	11.0	9.5	16.5	14.0	19.0	17.0	21.5	19.5	20.0	19.0	18.0	17.5
21	11.0	10.0	16.0	14.5	19.5	17.0	21.5	19.0	20.0	19.0	18.5	17.5
22	11.0	10.0	15.5	14.5	20.0	17.5	21.0	19.0	20.0	19.0	18.0	17.5
23	11.0	10.0	16.5	15.0	20.5	18.0	20.5	19.0	20.0	19.0	18.0	17.0
24	11.5	10.5	17.0	14.5	21.0	18.5	21.0	19.5	20.0	19.0	17.5	17.0
25	11.5	10.5	16.5	15.5	20.5	17.5	20.5	19.5	20.5	19.0	17.5	16.5
26	11.0	10.5	18.5	15.5	19.5	17.5	20.5	19.5	20.0	19.0	17.5	17.0
27	11.5	10.0	18.5	15.5	19.0	17.0	21.0	19.5	19.5	19.0	17.5	17.0
28	13.0	10.5	17.5	15.5	19.0	17.5	21.0	19.0	20.0	19.0	18.0	17.0
29	12.5	11.0	16.5	15.0	19.5	17.5	21.5	19.5	19.5	18.5	18.0	17.5
30	13.0	11.5	17.0	15.5	19.5	17.5	20.5	19.5	19.0	18.5	18.0	17.0
31	---	---	17.5	15.5	---	---	21.5	20.0	19.5	18.5	---	---
MONTH	13.0	9.0	18.5	10.5	21.0	15.0	21.5	16.0	22.5	18.5	19.0	16.5

11517500 SHASTA RIVER NEAR YREKA, CA

LOCATION.--Lat 41°49'23", long 122°35'40", in SE¼NE¼ sec.24, T.46 N., R.7 W., Siskiyou County, Hydrologic Unit 18010207, on right bank 0.5 mi (0.8 km) upstream from mouth, and 7 mi (11 km) north of Yreka.

DRAINAGE AREA.--793 mi² (2,054 km²).

WATER-DISCHARGE RECORDS

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 (610 m), from topographic map. Prior to Nov. 2, 1933, nonrecording gage at same site and datum.

REMARKS.--Records excellent. Flow partly regulated by Lake Dwinnell beginning in 1928; storage limited to 50,000 acre-ft (61.6 hm³). Many diversions above station for irrigation.

AVERAGE DISCHARGE.--42 years, 186 ft³/s (5.268 m³/s), 134,800 acre-ft/yr (166 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft³/s (609 m³/s) Dec. 22, 1964, gage height, 12.92 ft (3.938 m) in gage well, 13.85 ft (4.221 m) from floodmarks, from rating curve extended above 4,100 ft³/s (116 m³/s) on basis of slope-area measurement of maximum flow; minimum, 3.4 ft³/s (0.10 m³/s) Aug. 13, 1939, when about 2 ft³/s (0.06 m³/s) was being diverted around gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 436 ft³/s (12.3 m³/s) Jan. 11, gage height, 4.13 ft (1.259 m); minimum daily, 7.9 ft³/s (0.22 m³/s) Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	169	225	180	181	246	164	225	60	17	18	92
2	124	167	219	180	179	240	155	210	50	23	14	87
3	122	169	210	181	177	232	149	156	46	22	11	95
4	128	171	207	184	180	230	132	130	41	23	7.9	95
5	131	179	216	192	180	220	127	151	43	18	14	85
6	127	176	214	195	183	217	104	202	46	20	13	66
7	136	171	204	192	183	216	100	202	42	29	20	55
8	134	166	197	190	183	216	117	267	37	32	17	57
9	140	169	190	194	180	217	115	252	32	32	15	60
10	155	171	193	216	180	211	124	249	32	31	20	51
11	131	172	201	352	180	207	146	225	31	29	17	49
12	132	176	217	364	182	201	140	191	29	25	13	52
13	128	180	212	263	206	203	131	157	26	20	8.3	61
14	127	180	206	237	265	197	122	126	29	22	8.9	62
15	154	180	203	227	280	181	114	117	28	28	15	61
16	173	188	198	221	260	187	111	108	27	17	19	63
17	174	195	199	208	230	228	131	95	35	14	22	59
18	170	194	206	203	215	244	153	73	42	12	21	56
19	163	197	205	199	205	230	177	62	43	11	35	59
20	159	199	197	197	206	216	164	61	33	15	69	66
21	161	197	196	196	205	200	158	60	31	29	75	60
22	160	199	200	195	208	197	163	59	25	18	67	61
23	153	196	201	191	207	164	153	63	20	18	37	58
24	157	196	204	192	201	143	140	86	15	19	26	53
25	162	196	207	189	194	140	133	80	12	25	27	68
26	165	196	205	186	189	149	127	69	11	18	27	75
27	164	193	202	184	186	150	114	67	19	17	32	87
28	164	196	200	186	227	214	107	62	25	11	26	90
29	163	208	195	188	---	358	101	64	20	20	33	116
30	165	228	189	182	---	274	125	56	15	32	124	119
31	168	---	184	181	---	193	---	54	---	27	104	---
TOTAL	4606	5574	6302	6445	5652	6521	3997	4139	945	674	956.1	2118
MEAN	149	186	203	208	202	210	133	134	31.5	21.7	30.8	70.6
MAX	174	228	225	364	280	358	177	202	60	32	124	119
MIN	116	166	184	180	177	140	100	54	11	11	7.9	49
AC-FT	9140	11060	12500	12780	11210	12930	7930	8210	1870	1340	1900	4200

CAL YR 1978 TOTAL 76761.0 MEAN 210 MAX 1570 MIN 27 AC-FT 152300
WTR YR 1979 TOTAL 47929.1 MEAN 131 MAX 364 MIN 7.9 AC-FT 95070

KLAMATH RIVER BASIN

11517500 SHASTA RIVER NEAR YREKA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1958 to current year.

CHEMICAL ANALYSES: Water years 1959 to current year.

WATER TEMPERATURES: Water years 1965-79 (discontinued).

SEDIMENT RECORDS: Water years 1955-56, 1958-62.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1965 to January 1979 (discontinued).

INSTRUMENTATION.--Temperature recorder from June 1965 to January 1979.

COOPERATION.--Chemical-quality records furnished by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 31.5°C July 15, 16, 1972; minimum recorded, 0.0°C Jan. 30, 31, 1972.

EXTREMES FOR PERIOD.--

WATER TEMPERATURES: Maximum recorded, 18.5°C Oct. 1, minimum recorded, 1.0°C Dec. 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)
NOV 15...	1600	180	517	8.4	5.0	2.0	12.0
JAN 03...	1145	180	450	8.4	4.0	3.0	13.1
MAR 08...	1220	216	502	8.3	12.0	4.0	10.7
MAY 01...	1205	217	612	8.9	16.5	2.0	9.5
JUL 16...	1100	17	663	8.7	25.0	2.0	8.8
SEP 11...	1305	49	650	8.8	21.5	4.0	9.3

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1978 TO JANUARY 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	14.0	10.0	7.0	9.0	8.0	3.0	1.5				
2	18.0	13.5	10.0	7.5	8.0	7.0	4.0	2.5				
3	18.0	12.5	10.5	7.5	---	---	4.5	3.5				
4	18.0	13.0	10.5	8.5	---	---	6.0	5.0				
5	18.0	13.0	10.0	7.5	---	---	6.0	5.0				
6	18.0	13.0	10.0	7.5	---	---	5.5	4.0				
7	17.5	13.0	9.5	7.0	---	---	5.0	4.0				
8	17.5	13.0	10.0	7.0	---	---	5.5	5.0				
9	17.0	12.5	9.0	7.0	5.0	3.5	7.0	5.0				
10	17.0	12.5	7.0	4.0	6.5	4.5	7.5	7.0				
11	17.0	12.5	4.0	2.0	7.0	6.5	8.5	7.5				
12	17.0	12.5	5.0	3.0	6.5	5.0	8.0	7.0				
13	16.5	12.5	5.0	3.0	6.0	4.5	7.0	6.0				
14	16.5	11.5	5.0	2.5	5.0	4.0	7.0	6.0				
15	16.5	13.0	4.5	2.5	5.5	4.5	7.0	5.0				
16	17.0	14.0	6.5	4.5	5.0	3.5	6.5	5.0				
17	16.5	13.0	8.5	6.5	5.5	5.0	5.5	7.0				
18	16.0	12.0	8.0	6.5	5.5	4.5	5.5	6.0				
19	14.5	11.5	8.5	7.5	4.5	3.0	6.5	6.0				
20	14.5	11.5	8.5	7.5	4.0	2.5	7.0	5.0				
21	15.5	12.5	8.5	7.5	5.0	4.0	7.0	5.0				
22	14.0	11.0	9.0	7.0	5.5	4.0	6.5	4.0				
23	13.5	10.0	7.0	6.5	6.0	5.0	6.0	3.5				
24	13.0	10.0	7.0	6.0	6.5	5.5	6.0	5.0				
25	13.0	9.5	7.5	5.5	6.5	6.0	6.0	4.5				
26	13.0	9.5	6.5	5.0	6.0	5.5	5.5	2.5				
27	12.5	9.5	6.0	4.5	6.0	5.0	5.5	4.0				
28	12.0	9.0	8.0	6.0	5.0	3.5	5.5	3.5				
29	11.5	9.0	10.0	8.0	3.5	2.5	5.0	2.5				
30	10.0	7.5	9.5	8.0	2.5	1.0	4.5	3.0				
31	10.0	7.0	---	---	2.5	1.5	5.0	3.0				
MONTH	18.5	7.0	10.5	2.0	9.0	1.0	8.5	1.5				

11519500 SCOTT RIVER NEAR FORT JONES, CA

LOCATION.--Lat 41°38'27", long 123°00'50", in NE¼NE¼ sec.29, T.44 N., R.10 W., Siskiyou County, Hydrologic Unit 18010208, on right bank 1.8 mi (2.9 km) upstream from Snow Creek, and 9.0 mi (14.5 km) west of Fort Jones.

DRAINAGE AREA.--653 mi² (1,691 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1941 to current year. Monthly discharge only October to December 1941, published in WSP 1315-B.

REVISED RECORDS.--WSP 1445: 1942-43(M), 1946(M), 1948. WSP 1715: 1951-52(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,623.80 ft (799.734 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1966, water-stage recorder 400 ft (122 m) downstream at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records excellent. Diversions for irrigation of about 30,000 acres (121 km²) above station.

AVERAGE DISCHARGE.--38 years, 658 ft³/s (18.63 m³/s), 476,700 acre-ft/yr (588 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,600 ft³/s (1,550 m³/s) Dec. 22, 1964, gage height, 25.34 ft (7.724 m) from floodmarks, from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of slope-area measurement at 21.40 ft (6.523 m), site and datum then in use; minimum daily, 5.4 ft³/s (0.15 m³/s) Aug. 31, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 11	1915	*3,940 112	10.48 3.194
May 5	2100	2,090 59.2	8.73 2.661

Minimum daily, 18 ft³/s (0.51 m³/s) several days in August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	89	184	116	189	504	549	792	421	66	28	23
2	97	89	178	116	187	424	515	789	411	62	27	25
3	97	89	155	116	181	400	478	798	412	60	26	26
4	97	91	150	116	183	437	461	1000	421	58	24	26
5	97	91	178	116	183	494	475	1520	393	59	23	26
6	97	93	181	116	183	682	640	1750	379	63	22	25
7	97	93	164	116	183	856	696	1410	333	60	21	24
8	97	93	153	116	183	908	651	1140	272	58	20	23
9	97	93	153	117	179	877	644	980	251	60	20	22
10	95	95	153	194	185	835	615	883	234	64	19	22
11	95	95	155	2750	221	843	585	856	214	63	18	22
12	95	95	158	1920	298	935	543	905	192	61	18	20
13	94	95	164	950	1010	945	547	1060	180	61	21	18
14	94	95	161	676	959	937	542	1280	175	63	25	18
15	95	95	150	540	623	1060	533	1470	169	63	24	18
16	95	97	147	458	501	1150	576	1520	161	61	24	19
17	95	97	147	402	436	943	664	1450	153	55	24	21
18	95	97	147	359	437	808	607	1390	150	53	24	18
19	93	105	142	332	440	746	527	1370	137	51	24	18
20	92	108	140	312	395	673	462	1390	130	50	24	18
21	91	110	135	296	390	618	434	1400	128	50	24	20
22	91	116	135	284	372	577	479	1380	128	49	24	21
23	91	116	132	271	363	542	580	1310	114	49	25	22
24	91	116	132	261	343	515	553	1140	110	46	25	22
25	91	116	132	251	322	514	531	1010	112	39	25	23
26	89	116	132	231	314	529	536	957	95	38	24	24
27	89	116	130	225	310	637	662	902	88	35	22	24
28	89	118	130	220	430	1060	740	767	79	33	22	24
29	89	121	125	201	---	787	746	640	69	33	22	24
30	89	142	121	196	---	664	723	507	65	32	22	23
31	89	---	118	192	---	591	---	458	---	30	22	---
TOTAL	2900	3082	4562	12566	10000	22490	17294	34224	6176	1625	713	659
MEAN	93.5	103	148	405	357	725	576	1104	206	52.4	23.0	22.0
MAX	97	142	184	2750	1010	1150	746	1750	421	66	28	26
MIN	89	89	118	116	179	400	434	458	65	30	18	18
AC-FT	5750	6110	9090	24920	19830	44610	34300	67880	12250	3220	1410	1310
CAL YR 1978	TOTAL	238360	MEAN 653	MAX 5370	MIN 53	AC-FT 472800						
WTR YR 1979	TOTAL	116311	MEAN 319	MAX 2750	MIN 18	AC-FT 230700						

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA

LOCATION.--Lat 41°51'14", long 123°13'52", in SW¼SW¼ sec.3, T.46 N., R.12 W., Siskiyou County, Hydrologic Unit 18010206, Klamath National Forest, on left bank 0.4 mi (0.6 km) upstream from Bittenbender Creek, 1.4 mi (2.3 km) downstream from Grider Creek, and 2.2 mi (3.5 km) west of Seiad Valley.

DRAINAGE AREA.--6,940 mi² (17,975 km²), approximately (not including Lost River or Lower Klamath Lake basins).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1912 to September 1925, July 1951 to current year. Monthly discharges only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m) from river-profile map. November 1912 to June 1925, nonrecording gage at site 3.5 mi (5.6 km) upstream at different datum.

REMARKS.--Records excellent. Flow regulated considerably by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--41 years, 4,084 ft³/s (115.7 m³/s), 2,959,000 acre-ft/yr (3.65 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165,000 ft³/s (4,670 m³/s) Dec. 23, 1964, gage height, 33.75 ft (10.287 m) from floodmarks, from rating curve extended above 49,000 ft³/s (1,390 m³/s) on basis of slope-area measurements at gage heights 20.1 ft (6.13 m) and 29.2 ft (8.90 m); minimum daily, 320 ft³/s (9.06 m³/s) Nov. 25, 1917.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,310 ft³/s (264 m³/s) Jan. 11, gage height, 8.68 ft (2.646 m); minimum daily, 926 ft³/s (26.2 m³/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1650	1700	2660	2250	2360	3460	3280	3050	2130	1070	1190	1340
2	1650	1700	2520	3520	2910	3240	3210	3040	1870	1070	1190	1550
3	1650	1700	2430	3750	3150	3180	3010	3020	1850	1050	1180	1520
4	1650	1700	2410	2710	2390	3760	2560	3250	1850	1040	1180	1510
5	1650	1700	2550	2260	2380	4090	2530	3790	1810	1040	1170	1510
6	1650	1720	2490	2250	2160	4580	2750	4610	1770	1030	1170	1480
7	1650	1720	2410	2330	2090	4980	2810	4330	1710	1040	1160	1470
8	1650	1720	2360	3180	2090	5110	2760	4860	1620	1040	1140	1460
9	1650	1720	2360	3290	2090	5220	2730	5130	1560	1040	1130	1440
10	1660	1710	2360	3820	2020	5110	2640	5350	1510	1080	1140	1440
11	1650	1710	2390	7950	2180	5370	2650	5440	1540	1050	1140	1430
12	1640	1710	2430	6010	2390	5420	2610	5650	1510	1050	1130	1430
13	1640	1750	2410	4280	3790	5180	2600	5800	1500	1040	1130	1440
14	1630	2180	2380	3580	4140	5040	2590	6030	1370	1030	1150	1440
15	1650	2190	2360	3120	3580	5330	2570	6340	1360	1040	1150	1440
16	1680	2210	2340	2920	3280	5560	2670	6380	1340	1020	1150	1450
17	1670	2240	2330	2790	2810	5360	2820	6140	1390	1000	1140	1440
18	1700	2240	2330	2700	2790	4910	2750	5610	1380	985	1140	1440
19	1700	2310	2320	2640	2770	4730	2680	5260	1350	972	1140	1440
20	1680	2350	2290	2600	2700	4710	2590	5140	1300	973	1180	1450
21	1670	2320	2310	2570	2700	4770	2530	5140	1270	1010	1220	1460
22	1670	2270	2310	2530	2660	4310	2640	5110	1240	994	1210	1460
23	1670	2260	2300	2500	2640	3860	2820	4920	1210	976	1190	1450
24	1680	2270	2300	2370	2590	3700	2790	4490	1190	974	1160	1450
25	1690	2270	2300	2210	2540	3680	2720	4020	1170	963	1150	1460
26	1690	2270	2300	2130	2540	3680	2720	3730	1160	954	1130	1500
27	1690	2270	2300	2330	2770	3750	2820	3530	1110	940	1130	1490
28	1680	2280	2280	2410	3330	4040	2950	2870	1100	939	1130	1500
29	1690	2510	2250	2360	---	3990	2940	2580	1080	929	1140	1500
30	1700	2450	2220	2370	---	3630	2950	2350	1060	926	1200	1520
31	1700	---	2220	2360	---	3400	---	2220	---	994	1280	---
TOTAL	51680	61150	73220	94090	75840	137150	82690	139200	43190	31259	36040	43910
MEAN	1667	2038	2362	3035	2709	4424	2756	4490	1440	1008	1163	1464
MAX	1700	2510	2660	7950	4140	5560	3280	6380	2130	1080	1280	1550
MIN	1630	1700	2220	2130	2020	3180	2530	2220	1060	926	1130	1340
AC-FT	102500	121300	145200	186600	150400	272000	164000	276100	85670	62000	71490	87100
CAL YR 1978 TOTAL		1356410	MEAN	3716	MAX	16900	MIN	1050	AC-FT	2690000		
WTR YR 1979 TOTAL		869419	MEAN	2382	MAX	7950	MIN	926	AC-FT	1724000		

KLAMATH RIVER BASIN

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1959-79.

CHEMICAL ANALYSES: Water years 1959-66.

WATER TEMPERATURES: Water years 1964-79 (discontinued).

SEDIMENT RECORDS: Water years 1955-56.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1963 to May 1979 (discontinued).

INSTRUMENTATION.--Temperature recorder from October 1963 to May 1979.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 29.5°C July 26, 1970; minimum recorded, 0.0°C on Dec. 30-31, 1978.

EXTREMES FOR PERIOD.--

WATER TEMPERATURES: Maximum recorded, 19.0°C May 25, 26; minimum recorded, 0.0°C Dec. 30-31.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1978 TO MAY 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	15.0	11.0	9.5	7.5	6.5	2.0	1.0	3.0	2.0	6.5	5.0
2	17.0	15.0	11.0	9.5	6.5	6.0	2.5	1.5	2.5	1.5	6.0	5.0
3	16.5	14.5	11.5	9.5	6.0	5.5	2.5	2.5	3.0	2.0	7.0	5.5
4	16.5	14.5	12.0	10.5	7.0	5.5	3.5	2.5	4.5	3.0	7.5	6.5
5	17.0	14.5	11.5	10.0	6.5	5.0	3.5	2.5	5.0	3.5	8.0	7.5
6	16.5	14.5	11.0	9.5	5.0	4.0	3.0	2.0	6.0	4.0	8.5	8.0
7	16.5	14.5	10.5	9.0	4.0	3.0	2.5	2.0	6.0	4.5	8.5	8.0
8	16.5	14.0	11.0	9.0	3.5	2.5	3.0	2.5	6.0	4.5	8.5	7.5
9	16.5	14.5	10.5	9.5	4.5	3.5	3.5	3.0	6.5	5.0	8.5	7.5
10	16.0	14.0	9.5	7.5	5.5	4.5	4.0	3.5	6.0	5.0	9.0	7.5
11	16.5	14.0	7.5	6.0	6.0	5.0	5.0	4.0	6.5	5.5	8.5	8.0
12	16.5	14.0	6.5	5.5	5.5	4.5	5.0	4.5	6.0	5.5	9.0	8.0
13	16.0	14.0	7.0	6.0	4.5	4.0	4.5	3.5	5.5	5.0	9.0	8.0
14	16.0	14.0	7.0	5.5	4.0	3.5	4.0	3.5	5.0	4.5	9.0	8.5
15	16.0	14.0	6.5	5.5	4.5	3.0	4.0	3.5	4.5	3.5	9.0	8.0
16	16.5	14.5	8.0	6.5	3.5	3.0	4.0	3.0	4.5	3.5	8.0	7.5
17	16.0	14.0	9.5	8.0	4.0	3.0	3.5	2.5	5.5	4.5	8.5	7.5
18	15.5	13.5	9.0	8.0	4.5	3.5	3.0	2.0	5.5	4.5	8.5	8.5
19	15.0	13.5	8.5	7.5	3.5	2.5	3.0	2.0	6.0	5.0	9.5	8.5
20	15.0	13.5	8.5	8.0	3.0	2.0	4.0	2.5	5.5	4.5	9.5	8.5
21	15.0	13.5	8.5	7.5	4.0	2.5	4.0	3.0	5.5	4.0	9.5	8.5
22	14.5	13.0	8.5	7.5	4.0	3.5	3.5	2.5	5.5	4.5	10.5	9.5
23	14.0	12.0	7.5	7.0	4.5	3.5	3.0	2.0	5.5	5.0	10.5	9.0
24	14.0	12.0	7.5	6.5	4.5	4.0	3.5	2.5	6.0	4.5	11.0	9.5
25	14.0	12.0	7.0	6.0	4.5	3.5	3.0	2.5	6.0	5.5	11.5	10.0
26	13.5	12.0	7.0	6.0	3.5	2.5	2.5	1.5	7.0	5.5	10.5	9.5
27	13.0	11.5	6.5	5.5	3.5	2.5	3.0	2.0	6.0	5.0	10.0	9.0
28	12.5	11.0	7.0	6.0	3.0	2.5	3.0	2.5	6.5	5.5	10.0	9.0
29	12.5	11.0	8.0	7.0	2.5	1.0	2.5	1.5	---	---	10.5	9.5
30	11.5	10.5	8.0	7.5	1.5	0.0	3.0	1.5	---	---	11.0	5.5
31	11.0	9.5	---	---	1.5	0.0	3.0	2.0	---	---	10.5	9.0
MONTH	17.5	9.5	12.0	5.5	7.5	0.0	5.0	1.0	7.0	1.5	11.5	5.0

KLAMATH RIVER BASIN

11521500 INDIAN CREEK NEAR HAPPY CAMP, CA

LOCATION.--Lat 41°50'07", long 123°22'55", in SW¼SW¼ sec.26, T.17 N., R.7 E., Siskiyou County, Hydrologic Unit 18010209, on left bank 0.2 mi (0.3 km) upstream from Slater Creek, 3.0 mi (4.8 km) north of Happy Camp, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--120 mi² (311 km²).

PERIOD OF RECORD.--September 1911 to September 1921 (fragmentary), December 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1635: 1957-58.

GAGE.--Water-stage recorder. Datum of gage is 1,198.37 ft (365.263 m) National Geodetic Vertical Datum of 1929. Prior to December 1956, nonrecording gages at sites 1.0 mi (1.6 km) upstream at different datums. December 1956 to Sept. 20, 1969, water-stage recorder at site 0.8 mi (1.3 km) upstream at different datum.

REMARKS.--Records excellent. Small diversions above station for irrigation.

AVERAGE DISCHARGE.--25 years (water years 1912-14, 1958-79), 429 ft³/s (12.15 m³/s), 310,800 acre-ft/yr (383 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft³/s (1,100 m³/s) Dec. 22, 1964, gage height, 24.3 ft (7.41 m) from floodmarks, present site and datum, from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of slope-area measurement at gage height 29.0 ft (8.84 m), previous site and datum; minimum observed, 20 ft³/s (0.57 m³/s) Aug. 19 to Sept. 6, 1914.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 21, 1955, reached a stage of 29.0 ft (8.84 m), at 1956-69 site and datum, from floodmarks, discharge, 23,000 ft³/s (651 m³/s) on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 11	0800	*5,700 161	10.70 3.261
Feb. 13	0015	3,800 108	9.35 2.850

Minimum daily, 38 ft³/s (1.08 m³/s) Sept. 18-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	43	459	59	118	542	350	394	246	108	56	52
2	53	43	193	62	113	441	336	379	239	106	56	63
3	52	43	136	61	111	437	319	379	232	103	55	56
4	51	44	163	61	110	499	315	396	224	101	54	53
5	51	44	304	59	111	645	335	1020	212	100	54	50
6	51	44	195	59	114	857	414	1010	205	99	54	48
7	50	43	132	58	121	984	366	878	195	97	53	46
8	49	43	112	69	134	955	351	797	188	95	52	45
9	49	42	103	82	171	906	347	745	184	100	52	45
10	49	42	99	936	288	860	339	761	177	118	50	44
11	49	42	163	3410	680	880	412	791	171	100	49	42
12	48	43	157	1080	1140	902	406	834	164	94	49	41
13	48	43	130	598	2390	900	435	824	160	90	50	40
14	47	43	114	493	999	929	413	799	156	87	51	40
15	47	43	103	387	674	1110	452	729	153	84	50	39
16	47	46	97	317	547	891	609	654	159	81	50	39
17	47	49	99	275	488	724	616	587	171	78	49	39
18	47	48	91	243	513	634	523	552	163	75	48	38
19	46	99	83	217	447	565	460	519	151	73	48	38
20	45	119	82	198	426	518	421	491	144	71	50	38
21	45	76	80	186	395	484	398	462	137	68	57	39
22	45	64	78	174	406	455	415	432	131	67	54	39
23	45	57	76	163	396	433	420	405	128	66	52	39
24	44	54	80	157	366	430	395	370	125	65	50	39
25	44	52	76	147	399	435	374	349	122	63	48	41
26	44	51	76	135	510	440	389	333	118	62	48	43
27	43	50	72	135	492	488	458	309	115	61	47	41
28	43	73	69	130	675	495	427	294	111	60	47	40
29	45	251	64	116	---	436	417	275	109	59	52	39
30	45	262	61	121	---	397	402	261	109	59	54	39
31	44	---	61	119	---	367	---	248	---	57	52	---
TOTAL	1466	1996	3808	10307	13334	20039	12314	17277	4899	2547	1591	1295
MEAN	47.3	66.5	123	332	476	646	410	557	163	82.2	51.3	43.2
MAX	53	262	459	3410	2390	1110	616	1020	246	118	57	63
MIN	43	42	61	58	110	367	315	248	109	57	47	38
AC-FT	2910	3960	7550	20440	26450	39750	24420	34270	9720	5050	3160	2570
CAL YR 1978	TOTAL	135912	MEAN 372	MAX 3680	MIN 42	AC-FT 269600						
WTR YR 1979	TOTAL	90873	MEAN 249	MAX 3410	MIN 38	AC-FT 180200						

11522500 SALMON RIVER AT SOMES BAR, CA

LOCATION.--Lat 41°22'40", long 123°28'35", in NE¼ 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 (1.6 km) upstream from mouth.

DRAINAGE AREA.--751 mi² (1,945 km²).

WATER-DISCHARGE RECORDS

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 (147.209 m) 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 (0.8 km) upstream at datum 6.54 ft (1.993 m) higher.

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

AVERAGE DISCHARGE.--56 years, 1,791 ft³/s (50.72 m³/s), 1,298,000 acre-ft/yr (1.60 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133,000 ft³/s (3,770 m³/s) Dec. 22, 1964, gage height, 46.6 ft (14.20 m) present site and datum, from floodmarks, from rating curve extended above 33,000 ft³/s (935 m³/s); minimum, 70 ft³/s (1.98 m³/s) Aug. 25, Sept. 4, 5, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,700 ft³/s (416 m³/s) Jan. 11 (0945 hrs), gage height, 12.49 ft (3.807 m), no other peak above base of 10,000 ft³/s (283 m³/s); minimum daily, 155 ft³/s (4.39 m³/s) Sept. 22-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	242	185	1190	340	502	2600	1500	2400	1550	515	232	218
2	237	185	820	320	520	2200	1380	2310	1500	505	229	314
3	233	185	597	303	700	2160	1370	2420	1480	494	224	302
4	230	185	526	283	615	2350	1380	2680	1420	488	218	249
5	227	185	1110	270	560	2600	1520	3530	1400	483	215	225
6	223	185	763	261	530	3100	1980	3690	1300	475	215	213
7	220	185	680	256	510	3500	1780	3730	1200	464	214	204
8	217	184	600	298	500	3420	1730	3400	1140	446	208	197
9	216	181	560	354	515	3250	1710	3100	1080	442	208	194
10	214	178	555	1380	560	3150	1640	3030	1030	562	204	191
11	210	176	645	9680	1080	3210	1780	3100	1000	499	201	187
12	210	176	695	4500	1300	3180	1680	3380	985	449	198	181
13	206	176	625	2600	3000	3070	1890	3680	955	422	198	177
14	203	176	570	2010	2430	3040	1900	3940	915	401	198	173
15	200	178	540	1570	1900	3310	1930	4020	880	384	198	168
16	197	182	505	1290	1680	3060	2170	3770	845	370	198	164
17	197	182	560	1110	1510	2690	2140	3580	900	353	198	164
18	201	185	515	992	1890	2450	1940	3580	860	342	195	160
19	201	300	485	895	1700	2260	1800	3520	810	330	191	158
20	199	600	450	834	1600	2100	1730	3570	775	317	191	158
21	197	405	430	797	1540	1980	1720	3530	735	336	208	158
22	197	325	415	747	1500	1870	2000	3390	700	323	219	155
23	197	290	420	706	1700	1760	2110	3080	675	304	214	155
24	194	265	520	679	1600	1700	2040	2790	645	292	204	155
25	193	252	495	653	1550	1730	2030	2660	620	281	200	172
26	191	240	460	596	1640	1760	2140	2500	600	269	194	203
27	191	233	445	608	1610	1900	2490	2320	585	260	189	193
28	187	230	410	584	2540	1910	2350	2200	560	253	188	178
29	185	450	390	565	---	1810	2390	2020	535	249	190	173
30	185	830	370	560	---	1710	2310	1840	530	248	213	168
31	185	---	355	550	---	1620	---	1680	---	238	220	---
TOTAL	6385	7689	17701	36591	37282	76450	56530	94440	28210	11794	6372	5707
MEAN	206	256	571	1180	1332	2466	1884	3046	940	380	206	190
MAX	242	830	1190	9680	3000	3500	2490	4020	1550	562	232	314
MIN	185	176	355	256	500	1620	1370	1680	530	238	188	155
AC-FT	12660	15250	35110	72580	73950	151600	112100	187300	55950	23390	12640	11320
CAL YR 1978	TOTAL	563993	MEAN	1545	MAX	7540	MIN	176	AC-FT	1119000		
WTR YR 1979	TOTAL	385151	MEAN	1055	MAX	9680	MIN	155	AC-FT	763900		

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to May 1979 (discontinued).

CHEMICAL ANALYSES: Water years 1959-64.

WATER TEMPERATURES: Water years 1966 to May 1979 (discontinued).

SEDIMENT RECORDS: Water years 1955-56.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1965 to May 1979 (discontinued).

INSTRUMENTATION.--Temperature recorder since October 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 32.0°C Sept. 4, 5, 1966; minimum recorded, 0.0°C on several days in 1967, 1972, 1978, and 1979.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum for period recorded, 17.5°C Oct. 1; minimum for period recorded, 0.0°C Dec. 30-31, Jan. 1-2.

TEMPERATURE, WATER (DEG. C), PERIOD OCTOBER 1978 TO MAY 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	14.0	9.0	6.5	7.5	7.0	0.5	0.0	2.5	2.0	7.0	6.0
2	17.0	13.0	9.0	6.5	7.0	6.0	1.0	0.0	2.5	1.5	6.5	6.0
3	17.0	13.0	9.0	7.0	6.0	5.0	1.5	0.5	2.5	1.5	7.5	6.5
4	16.5	13.0	10.0	7.5	6.5	5.5	2.0	1.5	3.5	2.0	8.0	7.0
5	16.5	13.0	10.0	8.0	6.5	5.5	2.5	1.5	4.0	3.0	8.5	7.5
6	16.5	13.0	9.5	7.5	5.5	3.5	2.5	1.5	5.5	4.0	9.0	7.5
7	16.0	13.0	9.5	7.5	3.5	2.5	3.0	2.0	6.0	5.0	9.0	7.5
8	16.0	12.0	9.0	7.0	3.0	2.5	3.5	2.5	6.5	5.5	8.5	7.0
9	16.0	12.5	9.0	6.5	4.0	2.5	4.5	3.5	7.0	6.0	8.5	7.0
10	15.5	12.0	7.0	6.0	5.5	4.0	6.0	4.5	7.0	6.5	8.5	7.0
11	15.5	12.0	6.0	5.0	6.5	5.5	7.0	5.5	7.0	6.5	9.0	7.5
12	16.0	12.5	5.0	4.5	6.0	5.5	7.0	6.0	7.0	6.5	9.0	7.5
13	15.5	12.0	5.5	4.5	5.5	4.5	6.0	5.0	7.0	6.5	9.0	7.0
14	15.5	12.0	5.0	4.0	4.5	4.5	6.0	5.5	6.5	6.0	9.0	7.5
15	15.5	13.0	4.5	3.5	4.5	3.5	6.0	5.0	6.0	5.5	8.5	7.5
16	16.0	13.5	5.5	4.5	3.5	3.0	5.0	4.5	5.5	5.0	7.5	6.5
17	15.5	12.5	6.5	5.5	3.0	3.0	4.5	4.0	6.0	5.5	7.5	6.5
18	15.5	12.0	7.0	6.5	3.5	3.0	4.0	3.5	6.5	6.0	7.5	7.0
19	14.5	11.5	7.5	7.0	3.0	2.0	3.5	3.0	7.0	6.0	8.5	6.5
20	14.5	12.0	7.5	7.0	2.5	1.5	3.5	3.0	6.5	6.0	8.0	7.0
21	15.0	12.0	8.0	7.5	3.0	2.0	4.0	3.5	6.5	5.5	8.0	6.5
22	14.0	11.0	8.0	7.0	4.0	3.0	4.0	3.5	6.5	6.0	8.5	7.0
23	13.0	10.0	7.5	6.5	4.0	3.5	3.5	3.0	6.0	5.0	8.5	7.0
24	13.0	10.0	7.0	6.5	4.0	3.5	3.5	3.0	7.0	5.5	9.0	7.5
25	13.0	10.0	6.5	6.0	4.0	3.0	3.5	3.0	7.0	6.5	9.5	8.0
26	12.5	9.5	6.5	5.5	3.0	2.5	3.0	2.0	7.5	6.5	9.0	8.0
27	12.5	10.0	6.0	5.0	3.0	2.0	3.0	2.5	7.0	6.5	8.0	7.5
28	11.5	8.5	6.5	5.5	2.5	2.0	3.0	2.0	7.0	6.5	8.5	7.0
29	11.0	8.5	8.0	7.0	2.0	1.0	2.0	1.5	---	---	8.5	7.5
30	10.0	7.5	8.0	7.5	1.0	0.0	2.5	1.5	---	---	8.5	7.0
31	9.5	7.0	---	---	0.5	0.0	2.5	2.0	---	---	8.5	7.0
MONTH	17.5	7.0	10.0	3.5	7.5	0.0	7.0	0.0	7.5	1.5	9.5	6.0

KLAMATH RIVER BASIN

11523000 KLAMATH RIVER AT ORLEANS, CA

LOCATION.--Lat 41°18'13", long 123°32'00", in SW¼NE¼ sec.31, T.11 N., R.6 E., Humboldt County, Hydrologic Unit 18010209, Six Rivers National Forest on right bank at Orleans, 25 ft (8 m) upstream from highway bridge, and 0.2 mi (0.3 km) downstream from Cheenitch Creek.

DRAINAGE AREA.--8,475 mi² (21,950 km²), not including Lost River or Lower Klamath Lake basins.

WATER-DISCHARGE RECORDS

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 (108.503 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1965, at site 6.7 mi (10.8 km) upstream at datum 90.68 ft (27.639 m) higher.

REMARKS.--Records good. Flow considerably regulated by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--52 years, 8,111 ft³/s (229.7 m³/s), 5,876,000 acre-ft/yr (7.25 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 307,000 ft³/s (8,690 m³/s) Dec. 22, 1964, gage height, 76.5 ft (23.32 m), from floodmarks, site and datum then in use, from rating curve extended above 80,000 ft³/s (2,270 m³/s) by slope-conveyance study; minimum daily, 320 ft³/s (9.06 m³/s) Aug. 25, Sept. 1, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48,200 ft³/s (1,370 m³/s) Jan. 11 (1230 hrs), gage-height, 16.61 ft (5.063 m), no other peaks above base of 40,000 ft³/s (1,130 m³/s); minimum daily, 1,540 ft³/s (43.6 m³/s) July 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2200	2260	6730	2850	3640	11100	6610	7260	4960	2120	1580	1680
2	2190	2260	4490	2840	3620	9400	6370	7230	4720	2080	1660	1930
3	2180	2260	3790	3650	4270	9160	6130	7080	4560	2060	1650	1950
4	2170	2260	3560	4290	3860	10100	5790	7580	4520	2020	1640	1860
5	2180	2260	5090	3160	3560	11400	5680	11500	4340	2000	1630	1820
6	2170	2270	4240	3030	3520	13500	6640	14300	4260	1970	1630	1800
7	2170	2260	3760	3020	3360	15300	6400	14300	4000	1960	1630	1780
8	2170	2250	3490	3470	3380	15100	6170	13100	3760	1930	1610	1760
9	2180	2240	3410	4280	3480	14300	6110	12400	3590	1930	1600	1750
10	2170	2230	3380	7320	3760	13600	5970	12300	3490	2120	1590	1740
11	2190	2220	3760	33100	6890	13600	6440	12600	3400	2020	1590	1730
12	2170	2240	4010	20400	7840	13700	6350	13400	3380	1920	1580	1720
13	2160	2260	3700	12600	21000	13400	6650	14100	3240	1890	1570	1710
14	2160	2440	3530	10100	15000	13000	6590	14600	3080	1850	1580	1720
15	2160	2720	3410	8410	11000	14200	6770	14400	2990	1820	1590	1710
16	2200	2780	3320	7200	9270	13600	7730	13100	2930	1800	1590	1710
17	2220	2820	3360	6410	8290	12200	8300	11900	3030	1760	1580	1700
18	2220	2820	3300	5850	9000	11000	7460	11200	3010	1720	1580	1700
19	2230	3240	3190	5440	8700	10100	6830	10400	2910	1700	1570	1690
20	2220	3670	3100	5160	8170	9540	6460	10300	2790	1680	1590	1710
21	2220	3250	3140	4930	7960	9360	6220	10100	2710	1670	1640	1700
22	2220	3050	3130	4740	7790	8940	6520	9700	2630	1680	1660	1700
23	2230	2960	3110	4530	7950	8270	7020	8990	2560	1650	1640	1690
24	2200	2920	3140	4350	7430	7830	6860	8230	2490	1630	1610	1690
25	2230	2900	3130	4150	7110	7810	6620	7680	2430	1610	1590	1750
26	2230	2870	3090	3840	7780	7850	6710	7470	2380	1600	1580	1850
27	2230	2860	3070	3720	7660	8210	7570	7040	2320	1580	1570	1810
28	2230	2920	3050	3840	11400	8430	7350	6350	2250	1570	1570	1780
29	2220	3830	2980	3730	---	8140	7390	5790	2200	1560	1580	1770
30	2250	5060	2910	3700	---	7540	7190	5420	2150	1550	1610	1760
31	2250	---	2900	3680	---	6960	---	5140	---	1540	1660	---
TOTAL	68220	82380	110270	197790	206690	336640	200900	314960	97080	55990	49750	52670
MEAN	2201	2746	3557	6380	7382	10860	6697	10160	3236	1806	1605	1756
MAX	2250	5060	6730	33100	21000	15300	8300	14600	4960	2120	1660	1950
MIN	2160	2220	2900	2840	3360	6960	5680	5140	2150	1540	1570	1680
AC-FT	135300	163400	218700	392300	410000	667700	398500	624700	192600	111100	98680	104500
CAL YR 1978	TOTAL	2832450	MEAN	7760	MAX	41100	MIN	1680	AC-FT	5618000		
WTR YR 1979	TOTAL	1773340	MEAN	4858	MAX	33100	MIN	1540	AC-FT	3517000		

KLAMATH RIVER BASIN

11523000 KLAMATH RIVER AT ORLEANS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SULFATE DIS- SOLVED (MG/L AS SO ₄)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)
OCT 02...	--	--	--	--	--	--	--	--
NOV 06...	--	--	--	--	--	--	--	--
DEC 05...	--	--	--	--	--	--	--	--
JAN 02...	--	5.9	--	--	--	--	--	100
FEB 13...	5.0	1.0	70	47	.10	4500	.14	0
MAR 12...	--	--	--	--	--	--	--	--
APR 03...	--	--	--	--	--	--	--	--
MAY 07...	--	--	--	--	--	--	--	--
JUN 05...	--	--	--	--	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--
AUG 07...	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	17.0	11.0	10.0	8.5	8.0	1.5	1.0	2.5	1.5	6.5	6.5
2	17.5	16.0	10.5	9.5	8.0	7.5	2.0	1.5	2.5	2.5	6.5	6.5
3	17.5	15.5	10.5	10.0	7.5	6.5	3.0	2.0	2.5	2.5	7.0	6.5
4	17.5	15.5	11.0	10.5	7.0	7.0	3.5	3.0	4.0	2.5	7.5	7.0
5	17.5	15.5	11.0	11.0	7.0	6.5	3.5	3.5	4.5	4.0	8.5	7.5
6	17.0	16.0	11.0	11.0	6.5	5.5	3.5	3.5	5.5	4.5	8.5	8.5
7	17.0	15.5	10.5	10.5	5.5	4.5	3.5	3.5	6.0	5.5	9.0	8.5
8	17.0	15.0	10.5	10.5	4.5	4.0	3.5	3.5	6.5	6.0	9.0	8.5
9	17.0	15.5	10.5	10.5	4.5	4.0	4.5	3.5	6.5	6.5	8.5	8.5
10	16.5	15.0	10.5	10.0	5.5	4.5	5.5	4.5	6.5	6.5	8.5	8.5
11	17.0	15.0	10.0	9.5	6.5	5.5	6.5	5.5	6.5	6.5	9.0	8.5
12	17.0	15.0	9.5	9.0	6.0	6.0	6.5	6.0	6.5	6.5	9.0	9.0
13	16.5	14.5	9.0	9.0	6.0	5.5	6.0	5.5	6.5	6.5	9.0	9.0
14	16.5	15.0	9.0	8.5	5.5	5.0	5.5	5.0	6.5	6.5	9.0	9.0
15	17.0	15.5	8.5	8.5	5.0	5.0	5.0	5.0	6.5	6.0	9.5	9.0
16	17.0	16.0	8.5	8.5	5.0	4.0	5.0	5.0	6.0	5.5	9.0	8.5
17	17.0	15.5	8.5	8.5	4.0	4.0	5.0	4.5	5.5	5.5	8.5	8.5
18	16.5	15.0	8.5	8.5	4.5	4.0	4.5	4.0	5.5	5.5	8.5	8.5
19	16.0	14.5	8.5	8.5	4.5	4.0	4.0	3.5	6.0	5.5	9.5	8.5
20	15.5	15.0	8.5	8.5	4.0	3.5	3.5	3.5	6.0	6.0	10.0	9.5
21	15.5	15.0	8.5	8.5	3.5	3.5	4.0	3.5	6.0	6.0	10.0	9.5
22	15.0	13.5	8.5	8.5	4.5	3.5	4.0	3.5	6.0	6.0	10.0	9.5
23	14.5	13.0	8.5	8.5	5.0	4.5	3.5	3.5	6.0	6.0	10.5	9.5
24	14.5	13.0	8.5	8.5	5.0	5.0	3.5	3.5	6.0	6.0	10.5	10.0
25	14.0	13.0	8.5	8.5	5.5	5.0	3.5	3.5	6.0	6.0	11.0	10.0
26	14.0	13.0	8.5	8.0	5.5	4.5	3.5	3.0	6.5	6.0	10.5	10.0
27	14.0	13.0	8.0	8.0	4.5	4.0	3.0	3.0	6.5	6.5	10.0	10.0
28	13.5	12.0	8.0	8.0	4.0	3.5	3.0	3.0	6.5	6.5	10.5	10.0
29	13.5	11.5	8.0	8.0	3.5	3.0	3.0	2.5	---	---	10.5	10.0
30	12.0	10.5	8.0	8.0	3.0	2.0	2.5	2.5	---	---	10.5	10.0
31	11.5	10.0	---	---	2.0	1.0	2.5	2.5	---	---	10.5	9.5
MONTH	18.0	10.0	11.0	8.0	8.5	1.0	6.5	1.0	6.5	1.5	11.0	6.5

11523000 KLAMATH RIVER AT ORLEANS, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.5	13.0	12.5	17.5	15.5	20.0	19.0	---	---	21.0	20.0
2	10.5	9.5	13.0	12.0	18.5	16.5	20.0	18.5	---	---	21.0	20.0
3	11.0	10.0	13.5	12.5	19.5	17.5	20.0	18.0	---	---	21.0	19.5
4	12.0	10.5	13.5	12.0	19.5	18.0	20.5	19.0	---	---	21.0	19.5
5	11.5	11.0	12.0	10.0	20.0	18.0	20.5	18.5	---	---	21.5	20.0
6	11.5	11.5	10.0	8.5	19.5	18.0	20.5	19.0	---	---	21.0	21.0
7	11.5	10.5	8.5	8.0	18.5	17.0	20.5	19.0	---	---	21.0	21.0
8	11.5	11.5	9.5	8.5	18.5	16.5	21.0	19.0	---	---	21.0	21.0
9	11.5	10.5	11.0	9.5	19.0	17.5	20.5	19.5	---	---	21.0	20.0
10	10.5	9.5	12.0	10.5	19.5	17.5	20.0	19.5	---	---	20.0	20.0
11	9.5	9.0	12.5	11.5	19.5	18.0	20.5	19.0	---	---	20.0	20.0
12	10.0	9.5	13.0	12.0	19.5	18.0	21.5	19.5	---	---	20.0	20.0
13	11.5	10.0	13.5	12.5	19.0	18.0	22.0	20.0	---	---	20.0	20.0
14	11.5	10.5	14.0	13.0	18.5	17.0	23.0	20.5	---	---	20.0	20.0
15	11.5	10.5	14.0	13.0	18.0	17.0	24.0	21.5	---	---	20.0	20.0
16	11.5	10.5	14.5	13.5	18.0	16.5	24.5	22.5	---	---	20.0	20.0
17	10.5	10.0	14.5	13.5	16.5	15.5	25.0	23.0	---	---	20.0	20.0
18	10.0	9.0	14.5	13.5	17.5	15.5	25.5	23.5	---	---	20.0	20.0
19	10.0	9.0	15.0	13.5	18.5	16.5	26.0	24.0	---	---	20.0	20.0
20	10.5	9.5	15.5	14.5	18.5	17.5	26.5	24.5	---	---	20.0	20.0
21	11.0	10.0	16.0	14.5	19.0	17.5	26.5	24.5	---	---	20.0	20.0
22	11.5	11.0	15.5	15.0	19.5	18.0	26.0	24.0	---	---	20.0	19.5
23	11.0	10.5	15.5	14.5	20.5	18.5	25.5	23.5	---	---	20.0	19.5
24	11.5	10.5	16.0	14.5	21.0	19.5	25.5	23.5	---	---	20.0	19.5
25	12.0	11.0	16.5	15.0	21.0	20.0	25.0	22.5	---	---	19.5	19.0
26	12.0	12.0	17.0	15.5	21.5	20.5	25.0	22.5	---	---	19.5	19.5
27	12.0	12.0	16.5	15.5	21.5	20.0	24.5	22.0	---	---	19.5	19.0
28	12.5	12.0	15.5	14.5	21.0	20.0	24.0	21.5	---	---	19.0	19.0
29	12.5	12.0	15.0	13.5	20.5	19.5	24.5	22.0	21.5	20.5	19.0	19.0
30	12.5	12.0	15.5	14.0	20.0	18.5	25.0	22.0	21.0	20.0	19.5	19.0
31	---	---	16.5	14.5	---	---	25.5	23.0	21.0	19.5	---	---
MONTH	12.5	9.0	17.0	8.0	21.5	15.5	26.5	18.0	---	---	21.5	19.0
YEAR	26.5	1.0										

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	2200	4	24	2260	4	24	6730	33	652
2	2190	3	18	2260	3	18	4490	10	121
3	2180	3	18	2260	3	18	3790	6	61
4	2170	3	18	2260	3	18	3560	5	48
5	2180	3	18	2260	3	18	5090	16	220
6	2170	3	18	2270	3	18	4240	10	114
7	2170	4	23	2260	3	18	3760	8	81
8	2170	4	23	2250	3	18	3490	7	66
9	2180	4	24	2240	3	18	3410	7	64
10	2170	4	23	2230	3	18	3380	6	55
11	2190	5	30	2220	3	18	3760	10	102
12	2170	6	35	2240	3	18	4010	12	130
13	2160	6	35	2260	4	24	3700	8	80
14	2160	6	35	2440	5	33	3530	6	57
15	2160	8	47	2720	7	51	3410	5	46
16	2200	7	42	2780	7	53	3320	4	36
17	2220	7	42	2820	6	46	3360	4	36
18	2220	6	36	2820	6	46	3300	4	36
19	2230	6	36	3240	10	87	3190	5	43
20	2220	6	36	3670	14	139	3100	6	50
21	2220	6	36	3250	10	88	3140	6	51
22	2220	6	36	3050	8	66	3130	6	51
23	2230	5	30	2960	6	48	3110	6	50
24	2200	5	30	2920	6	47	3140	4	34
25	2230	5	30	2900	5	39	3130	4	34
26	2230	5	30	2870	5	39	3090	5	42
27	2230	6	36	2860	4	31	3070	4	33
28	2230	9	54	2920	5	39	3050	5	41
29	2220	7	42	3830	10	103	2980	4	32
30	2250	6	36	5060	24	328	2910	5	39
31	2250	5	30	---	---	---	2900	5	39
TOTAL	68220	---	971	82380	---	1529	110270	---	2544

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	2850	6	46	3640	6	59	11100	30	899
2	2840	6	46	3620	6	59	9400	13	330
3	3650	10	99	4270	15	173	9160	12	297
4	4290	14	162	3860	14	146	10100	14	382
5	3160	10	85	3560	13	125	11400	18	554
6	3030	7	57	3520	12	114	13500	30	1090
7	3020	7	57	3360	9	82	15300	50	2070
8	3470	8	75	3380	14	128	15100	40	1630
9	4280	16	185	3480	16	150	14300	34	1310
10	7320	71	2430	3760	14	142	13600	34	1250
11	33100	634	63600	6890	31	586	13600	36	1320
12	20400	220	13000	7840	31	716	13700	37	1370
13	12600	67	2280	21000	186	10800	13400	36	1300
14	10100	31	845	15000	100	4050	13000	35	1230
15	8410	19	431	11000	65	1930	14200	29	1110
16	7200	14	272	9270	50	1250	13600	18	661
17	6410	12	208	8290	35	783	12200	17	560
18	5850	14	221	9000	40	972	11000	16	475
19	5440	19	279	8700	30	705	10100	16	436
20	5160	24	334	8170	24	529	9540	16	412
21	4930	24	319	7960	20	430	9360	16	404
22	4740	22	282	7790	14	294	8940	17	410
23	4530	20	245	7950	12	258	8270	17	380
24	4350	18	211	7430	10	201	7830	17	359
25	4150	16	179	7110	7	134	7810	17	358
26	3840	14	145	7780	20	420	7850	17	360
27	3720	12	121	7660	25	517	8210	13	288
28	3840	14	145	11400	73	2510	8430	10	228
29	3730	23	232	---	---	---	8140	13	286
30	3700	16	160	---	---	---	7540	16	326
31	3680	10	99	---	---	---	6960	13	244
TOTAL	197790	---	86850	206690	---	28263	336640	---	22329
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	6610	11	196	7260	12	235	4960	6	80
2	6370	11	189	7230	11	215	4720	6	76
3	6130	10	166	7080	10	191	4560	6	74
4	5790	9	141	7580	15	319	4520	6	73
5	5680	8	123	11500	47	1640	4340	6	70
6	6640	16	287	14300	44	1700	4260	5	58
7	6400	15	259	14300	24	927	4000	5	54
8	6170	14	233	13100	22	778	3760	5	51
9	6110	13	214	12400	20	670	3590	5	48
10	5970	12	193	12300	18	598	3490	5	47
11	6440	14	243	12600	16	544	3400	5	46
12	6350	13	223	13400	15	543	3380	5	46
13	6650	15	269	14100	16	609	3240	5	44
14	6590	15	267	14600	18	710	3080	5	42
15	6770	14	256	14400	17	661	2990	5	40
16	7730	30	626	13100	16	566	2930	5	40
17	8300	35	784	11900	14	450	3030	5	41
18	7460	26	524	11200	13	393	3010	5	41
19	6830	24	443	10400	12	337	2910	5	39
20	6460	22	384	10300	11	306	2790	4	30
21	6220	20	336	10100	10	273	2710	4	29
22	6520	22	387	9700	10	262	2630	4	28
23	7020	26	493	8990	9	218	2560	4	28
24	6860	23	426	8230	9	200	2490	4	27
25	6620	22	393	7680	8	166	2430	4	26
26	6710	20	362	7470	8	161	2380	4	26
27	7570	20	409	7040	7	133	2320	4	25
28	7350	18	357	6350	7	120	2250	4	24
29	7390	16	319	5790	6	94	2200	4	24
30	7190	14	272	5420	6	88	2150	4	23
31	---	---	---	5140	6	83	---	---	---
TOTAL	200900	---	9774	314960	---	14190	97080	---	1300

11523000 KLAMATH RIVER AT ORLEANS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	2120	4	23	1580	3	13	1680	3	14	
2	2080	4	22	1660	4	18	1930	3	16	
3	2060	4	22	1650	4	18	1950	3	16	
4	2020	4	22	1640	3	13	1860	2	10	
5	2000	4	22	1630	3	13	1820	2	9.8	
6	1970	4	21	1630	3	13	1800	2	9.7	
7	1960	4	21	1630	2	8.8	1780	2	9.6	
8	1930	4	21	1610	3	13	1760	2	9.5	
9	1930	4	21	1600	3	13	1750	2	9.5	
10	2120	5	29	1590	3	13	1740	2	9.4	
11	2020	4	22	1590	2	8.6	1730	2	9.3	
12	1920	3	16	1580	2	8.5	1720	2	9.3	
13	1890	3	15	1570	2	8.5	1710	2	9.2	
14	1850	3	15	1580	3	13	1720	2	9.3	
15	1820	3	15	1590	2	8.6	1710	2	9.2	
16	1800	3	15	1590	3	13	1710	2	9.2	
17	1760	3	14	1580	3	13	1700	2	9.2	
18	1720	3	14	1580	2	8.5	1700	2	9.2	
19	1700	3	14	1570	2	8.5	1690	2	9.1	
20	1680	3	14	1590	2	8.6	1710	2	9.2	
21	1670	3	14	1640	2	8.9	1700	2	9.2	
22	1680	3	14	1660	3	13	1700	2	9.2	
23	1650	3	13	1640	3	13	1690	2	9.1	
24	1630	3	13	1610	3	13	1690	2	9.1	
25	1610	3	13	1590	3	13	1750	3	14	
26	1600	3	13	1580	2	8.5	1850	4	20	
27	1580	3	13	1570	2	8.5	1810	3	15	
28	1570	3	13	1570	2	8.5	1780	2	9.6	
29	1560	3	13	1580	2	8.5	1770	2	9.6	
30	1550	3	13	1610	2	8.7	1760	2	9.5	
31	1540	3	12	1660	3	13	---	---	---	
TOTAL	55990	---	522	49750	---	351.2	52670	---	320.0	
YEAR	1773340		168943.2							

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPERATURE WATER (DEG C)	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT CHARGE, SUSPENDED (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 11...	1630	8.0	37900	750	76700	21	26	34
DATE								
JAN 11...		42	52	63	76	91	99	100

KLAMATH RIVER BASIN

11523200 TRINITY RIVER ABOVE COFFEE CREEK, NEAR TRINITY CENTER, CA

LOCATION.--Lat 41°06'41", long 122°42'16", in SW¼NW¼ sec.32, T.38 N., R.7 W., Trinity County, Hydrologic Unit 18010211, Shasta National Forest, on left bank 24 ft (7.31 m) upstream from State Highway No. 3 bridge, 1.8 mi (2.9 km) upstream from Coffee Creek, and 8.6 mi (13.8 km) north of Trinity Center. Prior to Oct. 1, 1978, at site 0.2 mi (0.3 km) downstream.

DRAINAGE AREA.--149 mi² (386 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 2,536.93 ft (773.256 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, water-stage recorder at site 0.2 mi (0.3 km) downstream at datum 3.00 ft (0.914 m) lower.

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

AVERAGE DISCHARGE.--22 years, 415 ft³/s (11.75 m³/s), 300,700 acre-ft/yr (371 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,500 ft³/s (750 m³/s) Jan. 16, 1974, gage height, 19.2 ft (5.852 m) from floodmarks, present site and datum, on basis of slope-area measurement at peak flow; minimum daily, 16 ft³/s (0.45 m³/s) Sept. 11-14, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 10.5 ft (3.20 m), previous site and datum, from floodmarks, discharge, 11,400 ft³/s (323 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (53.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
May 5	0930	*2,740	77.6	7.98	2.432
May 15	2100	1,900	53.8	7.26	2.213

Minimum daily, 30 ft³/s (0.85 m³/s) Sept. 17-23, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	55	115	42	42	170	463	1180	464	94	47	48
2	64	55	80	48	45	146	434	1120	465	92	47	72
3	63	55	69	48	46	133	421	1320	468	91	46	49
4	62	55	66	48	48	126	457	1580	459	91	45	43
5	59	55	99	48	49	169	586	2260	435	89	45	41
6	59	55	69	48	53	320	800	1510	407	86	45	39
7	59	55	62	49	64	615	679	1140	351	85	44	37
8	59	55	57	69	64	666	671	959	318	83	44	36
9	57	55	62	78	74	624	640	866	297	82	43	36
10	57	57	62	158	84	604	550	816	279	87	43	35
11	57	57	62	389	186	701	489	856	268	82	42	35
12	57	59	62	250	311	787	470	983	255	79	41	34
13	57	62	59	153	464	774	550	1240	246	75	41	33
14	57	62	57	135	288	756	595	1470	229	72	44	32
15	57	59	57	115	207	1290	631	1600	221	70	42	31
16	57	62	49	96	171	942	772	1530	214	68	41	31
17	57	62	57	82	145	643	668	1500	216	65	39	30
18	57	62	53	75	142	525	554	1480	212	64	39	30
19	57	66	48	73	127	456	486	1430	202	62	40	30
20	57	73	50	69	127	423	461	1390	193	62	46	30
21	57	75	59	66	124	405	493	1370	188	65	50	30
22	57	73	51	64	121	421	581	1280	180	65	47	30
23	55	69	53	62	116	396	580	1120	174	62	43	30
24	55	66	55	62	112	401	556	998	170	59	42	33
25	55	64	55	57	111	444	555	920	166	56	40	40
26	55	64	53	48	132	495	754	897	149	55	39	36
27	55	62	53	46	135	1050	1090	808	134	54	39	33
28	55	64	51	42	194	886	972	660	121	52	38	32
29	55	101	49	40	---	669	999	552	107	51	49	31
30	55	112	48	38	---	578	1010	500	96	50	52	30
31	55	---	44	40	---	506	---	476	---	48	45	---
TOTAL	1780	1926	1866	2638	3782	17121	18967	35811	7684	2196	1348	1077
MEAN	57.4	64.2	60.2	85.1	135	552	632	1155	256	70.8	43.5	35.9
MAX	64	112	115	389	464	1290	1090	2260	468	94	52	72
MIN	55	55	44	38	42	126	421	476	96	48	38	30
AC-FT	3530	3820	3700	5230	7500	33960	37620	71030	15240	4360	2670	2140
CAL YR 1978 TOTAL	205293		MEAN 562	MAX 4720	MIN 44	AC-FT 407200						
WTR YR 1979 TOTAL	96196		MEAN 264	MAX 2260	MIN 30	AC-FT 190800						

11525400 CLAIR ENGLE LAKE NEAR LEWISTON, CA

LOCATION.--Lat 40°48'05", long 122°45'44", in NW¼SW¼ 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 (14 km) north of Lewiston.

DRAINAGE AREA.--692 mi² (1,792 km²).

PERIOD OF RECORD.--November 1960 to current year. Prior to October 1963 published as Trinity Lake near Lewiston.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). 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 (3.01 km³) between elevations 1,995.5 ft (608.23 m), elevation of invert of river outlets and 2,370.0 ft (722.38 m), gross pool elevation. Dead storage, 10,000 acre-ft (12.3 hm³). Records, including extremes, represent total contents at 2400 hours.

COOPERATION.--Records furnished by Water and Power Resources Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,588,000 acre-ft (3.19 km³) Jan. 19, 1974, elevation, 2,378.32 ft (724.912 m); minimum since lake first filled, 222,400 acre-ft (274 hm³) Nov. 9, 1977, elevation, 2,120.22 ft (646.243 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,111,600 acre-ft (2.60 km³) June 10, elevation, 2,348.51 ft (715.826 m); minimum, 1,507,200 acre-ft (1.86 km³) Jan. 7, elevation, 2,303.77 ft (702.189 m).

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

1,960	670	2,100	162,231
1,970	1,894	2,140	292,850
1,980	4,131	2,190	529,611
2,000	12,373	2,250	955,140
2,020	26,436	2,310	1,583,590
2,040	47,023	2,380	2,616,990
2,070	92,906		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1860000	1813800	1691800	1511500	1533900	1590300	1741300	1879100	2098300	2092000	1948400	1766900
2	1858600	1810500	1685700	1510600	1533800	1592500	1744500	1886800	2100800	2085900	1942500	1761700
3	1857400	1806600	1679600	1509800	1533800	1594400	1747800	1895400	2103500	2080600	1936600	1756400
4	1855500	1803300	1674200	1509200	1533900	1596300	1751400	1904900	2105600	2075400	1930600	1750600
5	1854000	1800000	1670200	1508100	1533800	1598600	1755600	1919900	2107200	2070200	1924500	1747300
6	1852600	1797000	1663900	1507300	1534000	1602300	1761300	1930600	2109000	2064900	1918900	1744000
7	1851300	1793300	1658600	1507200	1534300	1607700	1766200	1938500	2109200	2059800	1913000	1740800
8	1850000	1790000	1651200	1507900	1534300	1613000	1770800	1945100	2109900	2054300	1907100	1737000
9	1848300	1786300	1645100	1507700	1534600	1618000	1774700	1950800	2110800	2048700	1901600	1733100
10	1847100	1782300	1639300	1511700	1535500	1622600	1778800	1956100	2111600	2043500	1895600	1729800
11	1845700	1778500	1633500	1520400	1537100	1626700	1781900	1961900	2111100	2038400	1890000	1725500
12	1844300	1775700	1627500	1524400	1541600	1633800	1785000	1968500	2110800	2033400	1883800	1721800
13	1843000	1772400	1621200	1526000	1551100	1639300	1788800	1976700	2109800	2028900	1877300	1718800
14	1841700	1768900	1614700	1528600	1555200	1645100	1792800	1986300	2109000	2024900	1871300	1715400
15	1840500	1765400	1607400	1529700	1558400	1654500	1797400	1996700	2108600	2021000	1865100	1711900
16	1839300	1762100	1600200	1530900	1560500	1661800	1802400	2006400	2107700	2016700	1858900	1708400
17	1838000	1759000	1593200	1531400	1562800	1666800	1806700	2016600	2107400	2012500	1852900	1704600
18	1836700	1755600	1586100	1531800	1565600	1671200	1810400	2026500	2107500	2008400	1846700	1700700
19	1835000	1753800	1579200	1532300	1567500	1674800	1813100	2035700	2107500	2004400	1840500	1697000
20	1833400	1751300	1572500	1532800	1570700	1677800	1816200	2045300	2107400	1999700	1834300	1693300
21	1831900	1749300	1566500	1533100	1572700	1681200	1819600	2054500	2107100	1994200	1828600	1689700
22	1830500	1745700	1560000	1533300	1575100	1684500	1823200	2062200	2106500	1989300	1823000	1686100
23	1829000	1740000	1553600	1533500	1576800	1687500	1827800	2068600	2102400	1985000	1817000	1682300
24	1827400	1733900	1547200	1533400	1578500	1690400	1831900	2073600	2102100	1980800	1811300	1678800
25	1825700	1727900	1540900	1533400	1580200	1693500	1835800	2078900	2102000	1977200	1805600	1676300
26	1824100	1721300	1534600	1533400	1582100	1697000	1843200	2083500	2101400	1973300	1799700	1673000
27	1822600	1715900	1528300	1533300	1584100	1710800	1853100	2086900	2100800	1969100	1793900	1669800
28	1820700	1708400	1522100	1534200	1588200	1721300	1859600	2089600	2099800	1965100	1788100	1666800
29	1819100	1702900	1518600	1534000	---	1727900	1866200	2091900	2098000	1961100	1782600	1664000
30	1816900	1697800	1515300	1534200	---	1733100	1872500	2094100	2097100	1957800	1777100	1661000
31	1815500	---	1512300	1533800	---	1737800	---	2096500	---	1954100	1771900	---
MAX	1860000	1813800	1691800	1534200	1588200	1737800	1872500	2096500	2111600	2092000	1948400	1766900
MIN	1815500	1697800	1512300	1507200	1533800	1590300	1741300	1879100	2097100	1954100	1771900	1661000
†	2327.80	2318.96	2304.19	2305.96	2310.37	2322.00	2331.95	2347.50	2347.54	2337.75	2324.56	2316.12
‡	-45800	-117700	-185500	+21500	+54400	+149600	+134700	+224000	+600	-143000	-182200	-110900
††	3290	1240	200	230	480	1600	3100	6400	8200	8350	7100	4960

CAL YR 1978 † +1085500
WTR YR 1979 ‡ -200300

† Elevation, in feet NGVD, at end of month.
‡ Change in contents, in acre-feet.
†† 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 18010211, at powerplant 1.6 mi (2.6 km) downstream from Mill Creek, and 3.8 mi (6.1 km) south of French Gulch.

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

GAGE.--Recorded powerplant output.

REMARKS.--Water is diverted from Trinity River at NW¼SE¼ sec.8, T.33 N., R.8 W., through a tunnel to powerplant and then into Whiskeytown Lake (station 11371700). See schematic diagram of Pit and McCloud River basins.

COOPERATION.--Records furnished by Water and Power Resources Service, rounded to Geological Survey standards.

AVERAGE DISCHARGE.--16 years, 1,597 ft³/s (45.23 m³/s), 1,157,000 acre-ft/yr (1.43 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,910 ft³/s (111 m³/s) Feb. 11, 1970; no flow for several days in many years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	503	421	2970	275	0	0	0	383	664	2650	2630	2610
2	579	1540	2980	328	0	0	0	0	495	2650	2530	2610
3	559	1480	2990	311	0	0	0	0	500	2640	2550	2620
4	573	1500	3010	304	0	0	0	0	509	2640	2720	2610
5	635	1480	1910	324	0	0	0	0	788	2640	2630	1530
6	559	1480	2970	289	0	0	0	0	609	2640	2620	1500
7	515	1480	2960	311	0	0	0	0	515	2560	2600	1510
8	495	1480	2970	307	0	0	0	0	450	2630	2650	1620
9	503	1490	2970	293	0	116	0	0	680	2630	2530	1560
10	571	1470	2980	166	0	0	0	0	609	2610	2580	1450
11	508	1480	2950	308	0	0	0	0	790	2610	2650	1710
12	505	1470	2980	0	0	0	0	0	716	2610	2680	1730
13	547	1480	2960	0	264	0	0	208	613	2190	2620	1470
14	556	1470	3000	0	0	0	0	204	668	2210	2610	1450
15	496	1480	3530	0	122	0	0	193	528	2120	2580	1520
16	496	1480	3530	0	0	0	352	261	523	2140	2590	1500
17	499	1460	3530	0	0	0	0	195	510	2120	2750	1490
18	601	1470	3330	0	0	0	0	272	375	2060	2770	1520
19	493	1470	3290	0	0	0	309	509	515	2140	2700	1470
20	505	1480	3510	0	0	0	0	499	512	2120	2690	1490
21	487	1470	2970	0	206	0	0	510	581	2100	2610	1550
22	497	1580	2980	0	0	0	149	707	738	2090	2650	1530
23	510	3010	2990	0	0	0	0	823	2580	2050	2570	1530
24	545	2960	2990	136	0	0	0	680	523	2130	2570	948
25	562	2970	2990	0	0	0	0	679	580	1740	2600	1050
26	519	2980	2980	0	0	0	0	680	508	1600	2610	1110
27	505	2980	2980	0	0	0	0	675	496	1600	2610	1330
28	610	3000	2990	0	8.0	0	512	700	500	1570	2610	1130
29	583	2960	1470	0	---	0	542	511	502	1570	2600	1110
30	513	3010	1470	0	---	0	510	493	655	1610	2610	1320
31	737	---	1480	0	---	0	---	630	---	1700	2610	---
TOTAL	16766	55481	89610	3352	600.0	116	2374	9812	19232	68370	81330	47578
MEAN	541	1849	2891	108	21.4	3.74	79.1	317	641	2205	2624	1586
MAX	737	3010	3530	328	264	116	542	823	2580	2650	2770	2620
MIN	487	421	1470	0	0	0	0	0	375	1570	2530	948
AC-FT	33260	110000	177700	6650	1190	230	4710	19460	38150	135600	161300	94370
CAL YR 1978	TOTAL	248453.00	MEAN	681	MAX	3530	MIN	0	AC-FT	492800		
WTR YR 1979	TOTAL	394621.00	MEAN	1081	MAX	3530	MIN	0	AC-FT	782700		

11525500 TRINITY RIVER AT LEWISTON, CA

LOCATION.--Lat 40°43'10", long 122°48'09", in SW¼NW¼ sec.17, T.33 N., R.8 W., Trinity County, Hydrologic Unit 18010211, on right bank 400 ft (122 m) upstream from Deadwood Creek, and 0.8 mi (1.3 km) northeast of Lewiston.

DRAINAGE AREA.--719 mi² (1,862 km²).

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 1,815.27 ft (553.294 m) National Geodetic Vertical Datum of 1929. See WSP 1929 for history of changes prior to July 7, 1964.

REMARKS.--Records excellent. 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).--68 years, 1,705 ft³/s (48.29 m³/s), 1,235,000 acre-ft/yr (1.52 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,600 ft³/s (2,030 m³/s) Dec. 22, 1955, gage height, 27.3 ft (8.32 m) from floodmarks, site and datum then in use; minimum, 23 ft³/s (0.65 m³/s) July 30, 1924. Maximum discharge since construction of Lewiston Dam in 1960, 14,400 ft³/s (408 m³/s) Jan. 18, 1974, gage height, 10.41 ft (3.173 m); minimum daily, 100 ft³/s (2.83 m³/s) Apr. 14, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1861 reached a stage of 21.6 ft (6.58 m) from floodmarks, at site 1.1 mi (1.8 km) downstream at different datum, discharge, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 923 ft³/s (26.1 m³/s) Mar. 1, gage height, 4.87 ft (1.484 m); minimum daily, 173 ft³/s (4.90 m³/s) Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	299	303	300	307	628	300	304	312	309	312	307
2	304	301	303	299	306	342	301	306	314	311	308	307
3	304	300	303	299	306	301	302	303	315	310	311	308
4	304	303	303	297	307	299	302	305	315	310	307	308
5	308	303	303	297	308	299	302	309	315	311	307	308
6	306	303	303	296	309	298	306	307	313	311	312	305
7	306	302	306	297	308	329	306	312	312	309	312	303
8	304	303	306	297	308	502	305	309	313	286	312	303
9	306	303	306	299	310	342	305	308	312	303	314	303
10	307	303	303	306	314	297	306	308	308	320	315	303
11	305	303	304	309	315	298	305	307	308	314	310	303
12	305	303	303	299	316	298	306	306	312	309	303	299
13	307	301	303	296	318	298	307	305	312	303	303	307
14	306	301	304	296	319	298	308	306	312	299	303	307
15	305	302	306	294	455	300	308	307	309	296	303	303
16	303	303	304	297	334	299	309	308	311	294	307	303
17	303	303	303	295	298	443	307	309	308	294	307	307
18	303	309	299	296	302	296	307	307	307	291	307	311
19	303	310	300	300	299	296	307	308	310	289	312	311
20	290	311	299	298	302	296	306	311	305	284	320	311
21	345	310	299	299	301	298	306	311	305	282	320	307
22	326	305	299	298	297	303	307	310	306	283	320	307
23	299	303	299	299	298	301	308	309	307	286	320	307
24	300	302	300	300	297	301	300	308	307	286	320	528
25	301	301	300	299	296	300	300	312	307	304	320	580
26	301	300	303	298	298	510	300	313	310	319	320	577
27	301	302	303	299	298	314	299	313	311	322	320	574
28	302	303	306	305	334	310	303	313	311	320	320	442
29	299	305	306	305	---	306	308	309	311	314	282	294
30	300	304	303	306	---	305	302	314	310	315	173	295
31	301	---	303	307	---	302	---	314	---	315	242	---
TOTAL	9459	9101	9385	9282	8760	10309	9138	9571	9308	9399	9442	10328
MEAN	305	303	303	299	313	333	305	309	310	303	305	344
MAX	345	311	306	309	455	628	309	314	315	322	320	580
MIN	290	299	299	294	296	296	299	303	305	282	173	294
AC-FT	18760	18050	18620	18410	17380	20450	18130	18980	18460	18640	18730	20490
MEAN ‡	155	194	180	761	1323	2795	2699	4372	1099	319	80.3	150
AC-FT ‡	9550	11560	11050	46790	73450	171900	160600	268800	65410	19600	4940	8900

CAL YR 1978 TOTAL 98940 MEAN 271 MAX 746 MIN 159 AC-FT 196200 MEAN ‡ 2512 AC-FT ‡ 1819000
WTR YR 1979 TOTAL 113482 MEAN 311 MAX 628 MIN 173 AC-FT 225100 MEAN ‡ 1178 AC-FT ‡ 852600

‡ Adjusted for change in contents and evaporation from Clair Engle Lake and diversion to Judge Francis Carr powerplant.

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)
NOV 06...	--	.01	--	.20	--	.21	.02	.01	--
JAN 02...	.13	--	.01	--	.19	.20	.01	.00	--
FEB 13...	.08	--	.05	--	.35	.40	.02	.01	--
MAY 07...	.00	--	.02	--	.48	.50	.02	.00	0
JUL 09...	.05	--	.01	--	.29	.30	.01	.00	--
SEP 04...	--	--	--	--	--	--	--	--	--

DATE	TIME	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	CARBON, ORGANIC TOTAL (MG/L AS C)
MAY 07...	0830	0	0	0	0	0	10	0	10	.0	1.7

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.5	8.5	7.5	7.5	7.0	8.0	7.0	6.0	5.0	7.5	6.5
2	10.0	8.5	8.0	7.0	7.5	7.0	7.5	7.0	6.0	5.0	7.5	6.5
3	10.0	8.5	8.0	7.0	7.0	7.0	7.5	7.0	6.0	5.0	7.0	6.5
4	10.0	9.0	8.0	7.0	7.5	7.0	7.5	7.5	6.0	5.0	7.5	6.5
5	10.0	9.0	7.5	7.0	7.5	7.0	7.5	7.0	5.5	5.0	8.0	6.5
6	10.0	9.0	7.5	7.0	7.5	6.5	7.5	7.0	6.0	5.0	8.5	7.0
7	10.0	8.5	7.5	7.0	7.0	6.5	7.0	7.0	6.0	5.0	8.5	7.0
8	10.0	9.0	7.5	6.5	7.0	6.5	7.5	7.0	6.0	5.0	8.5	7.5
9	10.0	8.5	7.5	6.5	7.5	7.0	7.5	7.0	6.0	5.5	8.5	7.5
10	10.0	9.0	7.0	6.5	7.5	7.0	7.5	7.5	6.0	5.5	9.0	7.0
11	10.0	9.0	6.5	6.0	7.5	7.5	8.0	7.5	6.5	6.0	9.0	7.5
12	10.0	9.0	6.0	5.5	8.0	7.5	8.0	7.0	6.0	6.0	9.0	7.5
13	10.0	9.0	6.0	5.5	8.0	7.5	7.5	7.0	6.5	6.0	9.0	7.5
14	10.0	9.0	6.0	5.5	7.5	7.5	7.5	7.5	7.0	6.0	8.5	8.0
15	10.0	9.0	6.0	5.5	7.5	7.5	7.5	7.0	6.5	6.0	8.5	8.0
16	10.0	8.5	6.5	6.0	7.5	7.5	7.5	7.0	7.0	6.0	8.5	8.0
17	10.0	9.0	6.5	6.0	7.5	7.5	7.5	7.0	6.5	6.0	9.0	8.0
18	10.0	9.0	7.0	6.5	8.0	7.5	7.0	7.0	7.0	6.0	8.5	8.0
19	9.5	9.0	7.0	6.5	8.0	7.5	7.5	7.0	7.0	6.5	9.5	8.0
20	10.0	8.5	7.0	6.5	8.0	7.5	7.0	7.0	6.5	6.5	9.5	8.0
21	9.5	8.5	7.0	6.5	8.0	7.5	7.5	7.0	7.5	6.5	9.5	8.5
22	9.5	8.5	7.5	6.5	8.0	7.5	7.5	6.5	7.0	6.0	9.0	8.5
23	9.5	8.5	7.0	6.5	8.0	7.5	7.0	6.5	7.0	6.5	10.0	8.5
24	9.5	8.5	7.0	6.5	8.0	8.0	7.0	6.5	7.0	6.5	10.0	8.5
25	9.5	8.5	7.0	6.5	8.0	8.0	7.0	6.0	7.0	6.5	10.0	8.5
26	9.0	8.0	7.0	6.5	8.5	8.0	6.5	6.0	8.0	6.5	9.0	8.5
27	9.0	8.0	7.0	6.5	8.5	8.0	6.5	6.0	8.0	6.5	9.0	8.5
28	9.0	8.0	7.0	6.5	8.5	8.0	6.5	5.5	7.0	7.0	9.5	8.0
29	8.5	7.5	7.5	7.0	8.5	8.0	6.5	5.5	---	---	9.5	8.0
30	8.5	7.5	7.5	7.0	8.0	7.5	5.5	5.5	---	---	9.5	8.0
31	8.5	7.5	---	---	8.0	7.5	6.0	5.5	---	---	10.0	8.0
MONTH	10.0	7.5	8.5	5.5	8.5	6.5	8.0	5.5	8.0	5.0	10.0	6.5

KLAMATH RIVER BASIN

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 197A TO SEPTEMBER 1979

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	8.5	12.0	10.5	12.0	10.5	13.0	11.0	11.5	9.5	9.0	8.0
2	10.0	8.5	12.0	10.5	12.5	10.5	11.5	10.0	11.5	9.5	9.5	8.5
3	10.0	8.5	12.5	10.5	12.5	10.5	11.0	9.5	11.0	9.0	9.5	8.0
4	10.5	9.0	11.0	10.0	12.5	10.5	10.5	9.0	10.5	9.0	10.0	8.0
5	10.5	9.0	11.0	10.5	12.5	11.0	10.5	8.5	10.5	8.5	10.0	8.0
6	10.5	9.0	10.5	10.0	12.5	10.5	10.0	8.5	10.5	9.0	10.0	8.5
7	11.0	9.5	11.5	10.0	12.5	11.0	10.5	8.5	10.5	8.5	10.5	8.5
8	11.0	9.5	11.5	10.0	12.5	11.0	10.5	8.5	10.5	8.5	10.5	9.0
9	10.5	9.5	12.0	10.0	12.5	10.5	10.5	8.5	10.5	8.5	10.5	9.0
10	10.5	9.5	12.5	10.5	13.0	11.0	10.5	8.5	10.5	8.5	10.5	9.0
11	11.0	9.5	12.5	11.0	12.5	11.0	10.5	8.5	10.5	9.0	10.5	9.5
12	11.0	9.5	13.0	11.0	13.0	11.0	11.0	8.5	10.5	8.5	10.5	9.0
13	11.5	10.0	13.0	11.0	12.5	10.5	11.0	9.0	10.0	8.5	10.5	9.0
14	11.5	10.0	13.0	11.0	12.5	10.5	11.5	9.5	10.5	8.5	10.5	9.0
15	12.0	10.0	13.0	11.5	12.5	10.5	11.5	9.5	10.0	8.5	10.5	9.0
16	11.0	10.0	13.5	11.5	12.0	10.5	11.5	9.5	10.0	8.5	10.5	9.0
17	11.5	10.0	13.5	11.5	12.0	10.5	11.5	9.5	10.5	8.5	10.5	9.0
18	11.5	10.0	13.5	11.5	12.5	10.5	11.5	9.5	10.0	8.5	10.5	9.0
19	11.5	10.0	13.5	12.0	12.5	10.5	12.0	10.0	9.0	8.5	10.5	9.0
20	12.0	10.0	13.5	12.0	12.0	10.5	12.0	10.0	10.0	8.5	10.5	9.0
21	11.5	10.0	13.5	11.5	12.5	10.5	12.0	10.0	9.5	8.0	10.5	9.0
22	11.0	10.0	13.0	11.5	12.5	10.5	11.5	9.5	9.5	8.0	10.0	8.5
23	11.0	10.0	13.0	11.5	13.0	10.5	11.5	9.5	10.0	8.0	10.0	8.5
24	11.5	10.0	12.5	11.0	12.0	10.0	11.5	9.5	10.0	8.0	9.5	8.5
25	12.0	10.0	12.5	11.0	12.0	10.0	11.5	9.5	10.0	8.5	9.5	8.5
26	10.5	10.0	12.5	11.0	12.0	10.0	11.5	9.5	10.0	8.5	9.5	8.5
27	11.0	10.0	12.0	10.5	12.0	10.0	12.0	9.5	10.0	8.5	9.5	9.0
28	12.0	10.5	12.0	10.5	12.0	10.5	11.5	9.5	10.0	8.5	9.5	8.5
29	11.5	10.5	13.0	11.0	12.0	10.5	11.5	10.0	10.0	8.5	10.0	8.5
30	12.0	10.5	12.0	10.5	12.5	10.5	11.5	10.0	10.0	8.5	10.0	8.5
31	---	---	12.0	10.5	---	---	11.5	10.0	9.5	8.5	---	---
MONTH	12.0	8.5	13.5	10.0	13.0	10.0	13.0	8.5	11.5	8.0	10.5	8.0

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA

LOCATION.--Lat 40°40'35", long 122°49'46", in SW¼NE¼ sec.36, T.33 N., R.9 W., Trinity County, Hydrologic Unit 18010211, on right bank 0.1 mi (0.2 km) upstream from Phillips Gulch, and 2.5 mi (4.0 km) southwest of Lewiston.

DRAINAGE AREA.--30.8 mi² (79.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,049.73 ft (624.758 m) National Geodetic Vertical Datum of 1929 (California State Highway Department bench mark).

REMARKS.--Records good. No regulation; small diversions above station for domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,080 ft³/s (58.9 m³/s) Jan. 14, 1978; gage height, 8.38 ft (2.554 m); maximum gage height, 8.45 ft (2.576 m) Jan. 16, 1978; minimum daily discharge, 4.3 ft (0.12 m³/s) many days in 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 394 ft³/s (11.2 m³/s) Mar. 27 (1515 hrs), gage height, 6.56 ft (1.999 m), no other peak above base of 150 ft³/s (4.25 m³/s); minimum daily, 7.8 ft³/s (0.221 m³/s) Sept. 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	15	19	18	14	57	97	66	32	18	11	11
2	16	15	18	18	13	50	89	64	31	18	11	13
3	16	15	17	16	17	51	84	62	30	18	11	11
4	16	15	17	15	15	50	79	61	28	18	10	10
5	15	15	17	15	15	50	78	71	28	18	11	10
6	16	15	17	14	15	56	78	69	28	18	10	9.8
7	16	15	16	16	15	61	74	68	28	17	10	9.5
8	16	15	17	31	15	60	70	64	27	17	10	9.3
9	16	15	17	23	16	58	68	61	27	17	10	9.6
10	15	15	16	38	17	55	67	58	26	18	10	9.4
11	16	15	16	79	19	55	65	57	25	17	9.7	9.0
12	16	16	16	42	30	56	64	56	25	16	9.7	8.6
13	15	16	16	29	100	54	62	55	24	18	10	8.4
14	15	16	16	41	74	55	61	54	24	15	11	8.2
15	15	16	16	39	57	90	60	52	24	14	11	8.1
16	15	16	16	30	50	98	62	50	24	14	10	8.0
17	15	16	16	25	44	75	59	50	24	14	10	7.8
18	15	16	16	23	54	69	56	48	24	13	10	7.8
19	15	18	15	21	50	65	55	47	23	12	10	8.0
20	15	21	15	20	55	61	53	46	23	13	11	8.1
21	15	24	16	20	52	59	53	44	22	13	11	8.0
22	15	19	16	19	51	61	56	43	22	13	11	8.0
23	15	17	16	18	48	57	68	42	21	13	10	7.9
24	15	17	16	18	45	55	69	41	20	12	10	7.9
25	15	17	16	17	44	54	63	40	20	12	10	11
26	14	17	15	17	49	55	68	38	20	12	9.8	10
27	14	17	15	17	46	276	79	37	19	12	8.9	9.7
28	14	17	15	16	61	202	72	35	19	12	9.1	9.3
29	14	17	14	17	---	144	68	36	19	12	10	9.0
30	14	17	15	17	---	120	66	34	18	11	11	9.1
31	15	---	15	16	---	108	---	33	---	11	11	---
TOTAL	470	495	498	745	1081	2409	2043	1582	725	454	318.2	274.5
MEAN	15.2	16.5	16.1	24.0	38.6	77.7	68.1	51.0	24.2	14.6	10.3	9.15
MAX	16	24	19	79	100	276	97	71	32	18	11	13
MIN	14	15	14	14	13	50	53	33	18	11	8.9	7.8
AC-FT	932	982	988	1480	2140	4780	4050	3140	1440	901	631	544
CAL YR 1978	TOTAL	27444.0	MEAN	75.2	MAX	857	MIN	13	AC-FT	54440		
WTR YR 1979	TOTAL	11094.7	MEAN	30.4	MAX	276	MIN	7.8	AC-FT	22010		

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	16	7	.30	15	3	.12	19	8	.41
2	16	7	.30	15	3	.12	18	7	.34
3	16	8	.35	15	3	.12	17	8	.37
4	16	7	.30	15	3	.12	17	8	.37
5	15	6	.24	15	4	.16	17	7	.32
6	16	4	.17	15	4	.16	17	7	.32
7	16	4	.17	15	3	.12	16	6	.26
8	16	3	.13	15	2	.08	17	7	.32
9	16	3	.13	15	1	.04	17	7	.32
10	15	3	.12	15	2	.08	16	7	.30
11	16	3	.13	15	2	.08	16	7	.30
12	16	3	.13	16	2	.09	16	7	.30
13	15	3	.12	16	3	.13	16	7	.30
14	15	4	.16	16	3	.13	16	7	.30
15	15	4	.16	16	8	.35	16	7	.30
16	15	4	.16	16	16	.69	16	6	.26
17	15	4	.16	16	15	.65	16	8	.35
18	15	4	.16	16	14	.60	16	8	.35
19	15	5	.20	18	14	.68	15	7	.28
20	15	5	.20	21	17	.96	15	7	.28
21	15	5	.20	24	28	1.8	16	8	.35
22	15	5	.20	19	14	.72	16	8	.35
23	15	5	.20	17	8	.37	16	8	.35
24	15	5	.20	17	8	.37	16	8	.35
25	15	5	.20	17	8	.37	16	8	.35
26	14	5	.19	17	7	.32	15	8	.32
27	14	5	.19	17	7	.32	15	7	.28
28	14	4	.15	17	6	.28	15	7	.28
29	14	4	.15	17	6	.28	14	7	.26
30	14	4	.15	17	7	.32	15	7	.28
31	15	4	.16	---	---	---	15	8	.32
TOTAL	470	---	5.78	495	---	10.63	498	---	9.84
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	18	11	.53	14	10	.38	57	21	3.2
2	18	13	.63	13	12	.50	50	17	2.3
3	16	12	.52	17	14	.78	51	19	2.6
4	15	12	.49	15	8	.32	50	19	2.6
5	15	11	.45	15	7	.28	50	18	2.4
6	14	11	.42	15	7	.28	56	28	4.2
7	16	11	.48	15	6	.24	61	42	6.9
8	31	66	7.2	15	6	.24	60	33	5.3
9	23	32	2.0	16	5	.22	58	29	4.5
10	38	156	25	17	5	.23	55	29	4.3
11	79	412	102	19	7	.36	55	32	4.8
12	42	38	4.3	30	35	4.4	56	35	5.3
13	29	31	2.4	100	305	87	54	33	4.8
14	41	60	6.9	74	48	9.6	55	28	4.2
15	39	48	5.1	57	29	4.5	90	218	57
16	30	41	3.3	50	28	3.8	90	120	29
17	25	38	2.6	44	28	3.3	75	65	13
18	23	36	2.2	54	36	5.2	69	40	7.5
19	21	34	1.9	50	32	4.3	65	30	5.3
20	20	32	1.7	55	32	4.8	61	32	5.3
21	20	29	1.6	52	25	3.5	59	70	11
22	19	28	1.4	51	20	2.8	61	60	9.9
23	18	26	1.3	48	18	2.3	57	29	4.5
24	18	24	1.2	45	17	2.1	55	24	3.6
25	17	23	1.1	44	16	1.9	54	20	2.9
26	17	23	1.1	49	16	2.1	55	40	6.9
27	17	16	.73	46	15	1.9	276	1730	1400
28	16	15	.65	61	26	4.3	202	675	368
29	17	19	1.1	---	---	---	144	276	107
30	17	15	.69	---	---	---	120	162	52
31	16	12	.52	---	---	---	108	106	31
TOTAL	745	---	181.51	1081	---	151.63	2409	---	2171.3

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	97	81	21	66	19	3.4	32	5	.43			
2	89	73	18	64	14	2.4	31	7	.59			
3	84	69	16	62	13	2.2	30	7	.57			
4	79	66	14	61	16	2.6	28	7	.53			
5	78	66	14	71	39	7.5	28	6	.45			
6	78	68	14	69	33	6.1	28	7	.53			
7	74	57	11	68	25	4.6	28	6	.45			
8	70	49	9.3	64	17	2.9	27	6	.44			
9	68	44	8.1	61	15	2.5	27	6	.44			
10	67	36	6.5	58	14	2.2	26	6	.42			
11	65	30	5.3	57	13	2.0	25	7	.47			
12	64	28	4.8	56	13	2.0	25	7	.47			
13	62	27	4.5	55	14	2.1	24	5	.32			
14	61	27	4.4	54	17	2.5	24	4	.26			
15	60	27	4.4	52	17	2.4	24	3	.19			
16	62	49	8.2	50	14	1.9	24	2	.13			
17	59	49	7.8	50	12	1.6	24	2	.13			
18	56	38	5.7	48	12	1.6	24	3	.19			
19	55	28	4.2	47	11	1.4	23	4	.25			
20	53	25	3.6	46	11	1.4	23	4	.25			
21	53	24	3.4	44	11	1.3	22	4	.24			
22	56	28	4.2	43	10	1.2	22	6	.36			
23	68	61	12	42	9	1.0	21	8	.45			
24	69	52	9.7	41	10	1.1	20	6	.32			
25	63	24	4.1	40	13	1.4	20	3	.16			
26	68	33	6.1	38	11	1.1	20	3	.16			
27	79	59	13	37	8	.80	19	3	.15			
28	72	31	6.0	35	6	.57	19	3	.15			
29	68	18	3.3	36	5	.49	19	3	.15			
30	66	16	2.9	34	4	.37	18	3	.15			
31	---	---	---	33	4	.36	---	---	---			
TOTAL	2043	---	249.5	1582	---	64.99	725	---	9.80			
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	18	3	.15	11	1	.03	11	1	.03			
2	18	3	.15	11	1	.03	13	2	.07			
3	18	3	.15	11	0	0	11	2	.06			
4	18	3	.15	10	0	0	10	2	.05			
5	18	2	.10	11	0	0	10	1	.03			
6	18	2	.10	10	0	0	9.8	0	0			
7	17	2	.09	10	0	0	9.5	1	.03			
8	17	3	.14	10	1	.03	9.3	1	.03			
9	17	5	.23	10	1	.03	9.6	1	.03			
10	18	5	.24	10	1	.03	9.4	1	.03			
11	17	5	.23	9.7	2	.05	9.0	1	.02			
12	16	5	.22	9.7	2	.05	8.6	1	.02			
13	15	5	.20	10	2	.05	8.4	1	.02			
14	15	5	.20	11	3	.09	8.2	1	.02			
15	14	4	.15	11	3	.09	8.1	1	.02			
16	14	4	.15	10	3	.08	8.0	0	0			
17	14	4	.15	10	2	.05	7.8	0	0			
18	13	6	.21	10	2	.05	7.8	0	0			
19	13	5	.18	10	2	.05	8.0	1	.02			
20	13	5	.18	11	1	.03	8.1	1	.02			
21	13	3	.11	11	1	.03	8.0	1	.02			
22	13	3	.11	11	1	.03	8.0	1	.02			
23	13	4	.14	10	1	.03	7.9	1	.02			
24	12	5	.16	10	1	.03	7.9	2	.04			
25	12	5	.16	10	0	0	11	3	.09			
26	12	5	.16	9.8	0	0	10	3	.08			
27	12	5	.16	8.9	0	0	9.7	2	.05			
28	12	3	.10	9.1	1	.02	9.3	1	.03			
29	12	2	.06	10	1	.03	9.0	0	0			
30	11	1	.03	11	1	.03	9.1	0	0			
31	11	1	.03	11	1	.03	---	---	---			
TOTAL	454	---	4.59	318.2	---	.97	274.5	---	.85			
YEAR	11094.7	---	2861.39	---	---	---	---	---	---			

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1978	470.00	5.78	0	6
NOVEMBER ...	495.00	10.63	0	11
DECEMBER ...	498.00	9.84	0	10
JANUARY 1979	745.00	181.51	60	242
FEBRUARY ...	1081.50	151.63	213	365
MARCH	2409.00	2171.30	1050	3220
APRIL	2043.00	249.50	595	844
MAY	1582.00	64.99	338	403
JUNE	725.00	9.80	31	41
JULY	454.00	4.59	0	5
AUGUST	318.20	0.97	0	1
SEPTEMBER ..	274.50	0.85	0	1
TOTAL	11044.70	2861.39	2287	5149

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (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 11...	1025	92	5.0	585	145	20	26	32
MAR 27...	1700	387	6.0	1410	1470	13	16	21

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
JAN 11...	38	42	45	50	61	81	91	97	
MAR 27...	27	34	41	53	72	90	98	100	

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE, WATER (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
DEC 01...	1400	19	6.5	5	--	0	1
APR 05...	1130	78	8.0	5	0	4	17
05...	1135	--	--	--	--	0	2
05...	1140	--	--	--	--	0	2
05...	1145	--	--	--	0	1	4
05...	1150	--	--	--	0	2	11

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
DEC 01...	9	40	76	96	100	--	--
APR 05...	46	75	94	100	--	--	--
05...	7	30	72	97	100	--	--
05...	7	24	49	82	98	100	--
05...	15	48	73	92	100	--	--
05...	27	52	73	89	95	99	100

KLAMATH RIVER BASIN

11526500 NORTH FORK TRINITY RIVER AT HELENA, CA

LOCATION.--Lat 40°46'55", long 123°07'38", in SW¼SW¼ sec.21, T.34 N., R.11 W., Trinity County, Hydrologic Unit 18010211, on right bank 500 ft (152 m) downstream from East Fork of North Fork Trinity River, 0.6 mi (1.0 km) north of Helena, 1.0 mi (1.6 km) upstream from mouth, and 6 mi (10 km) northwest of Junction City.

DRAINAGE AREA.--151 mi² (391 km²).

PERIOD OF RECORD.--August 1911 to September 1913, January 1957 to current year.

REVISED RECORDS.--WSP 1565: 1912-13.

GAGE.--Water-stage recorder. Altitude of gage is 1,380 ft (421 m), from topographic map. August 1911 to September 1913, at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--No known regulation or diversion above station.

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

AVERAGE DISCHARGE.--24 years, 430 ft³/s (12.18 m³/s), 311,500 acre-ft/yr (384 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft³/s (1,010 m³/s) Dec. 22, 1964, gage height, 27.93 ft (8.513 m) from floodmarks, from rating curve extended above 9,000 ft³/s (255 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 7.5 ft³/s (0.21 m³/s) Sept. 26, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,610 ft³/s (159 m³/s) Jan. 11, gage height, 14.55 ft (4.435 m); minimum daily, 18 ft³/s (0.51 m³/s) Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	27	240	42	95	707	345	490	276	65	27	32
2	34	27	102	45	90	513	329	475	288	63	26	54
3	33	27	77	42	89	444	317	512	309	61	25	36
4	33	27	75	41	90	452	317	537	305	61	25	31
5	32	27	163	40	88	601	352	676	307	61	25	28
6	32	27	87	38	90	1030	450	710	304	62	25	26
7	31	27	75	40	88	1290	387	773	249	61	25	24
8	31	26	67	70	83	1220	372	657	217	58	25	24
9	31	26	67	92	85	1090	361	588	210	59	26	23
10	31	26	63	827	89	981	345	571	216	87	26	22
11	30	26	68	3720	298	987	341	598	216	71	27	21
12	30	28	76	1320	391	960	332	660	204	66	27	19
13	29	29	68	714	1780	872	347	741	189	62	26	18
14	29	29	63	566	1130	828	351	806	150	58	28	20
15	29	28	59	492	664	1140	347	800	127	56	26	24
16	28	31	55	425	493	1070	368	715	118	50	24	23
17	29	31	58	365	417	824	356	675	110	44	23	22
18	29	30	55	310	422	671	334	657	99	43	23	21
19	28	40	45	266	430	573	320	642	91	40	23	21
20	28	61	43	225	411	506	308	671	90	40	25	22
21	28	49	54	198	444	460	305	625	94	42	30	22
22	28	46	51	171	416	427	335	564	95	40	29	22
23	28	39	49	143	409	393	369	477	96	37	28	22
24	27	36	48	135	369	374	414	420	98	36	28	23
25	27	34	47	126	340	379	427	410	103	34	27	29
26	27	34	46	115	399	386	496	431	101	33	27	29
27	27	33	45	116	403	479	616	402	91	31	27	27
28	27	36	44	107	657	507	550	340	84	30	26	27
29	27	136	38	96	---	449	532	299	76	30	27	27
30	27	136	34	105	---	404	497	281	69	29	30	27
31	27	---	38	100	---	367	---	276	---	27	29	---
TOTAL	911	1179	2100	11092	10760	21384	11520	17479	4982	1537	815	766
MEAN	29.4	39.3	67.7	358	384	690	384	564	166	49.6	26.3	25.5
MAX	34	136	240	3720	1780	1290	616	806	309	87	30	54
MIN	27	26	34	38	83	367	305	276	69	27	23	18
AC-FT	1810	2340	4170	22000	21340	42420	22850	34670	9880	3050	1620	1520
CAL YR 1978	TOTAL	150026	MEAN	411	MAX	3740	MIN	26	AC-FT	297600		
WTR YR 1979	TOTAL	84525	MEAN	232	MAX	3720	MIN	18	AC-FT	167700		

11527000 TRINITY RIVER NEAR BURNT RANCH, CA

LOCATION.--Lat 40°47'20", long 123°26'20", in S½ sec.19, T.5 N., R.7 E., Trinity County, Hydrologic Unit 18010211, Trinity National Forest, on left bank 500 ft (152 m) upstream from Cedar Flat Creek, 700 ft (213 m) upstream from highway bridge at Cedar Flat, and 2.3 mi (3.7 km) southeast of town of Burnt Ranch.

DRAINAGE AREA.--1,439 mi² (3,727 km²).

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 (M).

GAGE.--Water-stage recorder. Datum of gage is 944.05 ft (287.746 m) National Geodetic Vertical Datum of 1929. Oct. 1, 1931, to Jan. 19, 1940, at site 2 mi (3 km) upstream at different datum.

REMARKS.--Records good including those for period of no gage-height record Feb. 28 to Apr. 4. Flow regulated since November 1960 by Clair Engle Lake (station 11525400), 64 mi (103 km) upstream. Small diversions above station for mining and irrigation.

AVERAGE DISCHARGE.--13 years (water years 1932-40, 1957-60), 2,785 ft³/s (78.87 m³/s), 2,016,000 acre-ft/yr (2.49 km³/yr); 19 years (water years 1961-79), 1,601 ft³/s (45.34 m³/s), 1,160,000 acre-ft/yr (1.43 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,500 ft³/s (2,310 m³/s) Feb. 25, 1958, gage height, 30.50 ft (9.296 m), from rating curve extended above 40,000 ft³/s (1,130 m³/s) on basis of slope-area measurement at gage height 43.2 ft (13.17 m); minimum, 82 ft³/s (2.32 m³/s) Aug. 31, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 43.2 ft (13.17 m), from floodmarks, discharge, 172,000 ft³/s (4,870 m³/s), on basis of slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,790 ft³/s (277 m³/s) Jan. 11, gage height, 10.86 ft (3.310 m); minimum daily, 304 ft³/s (8.61 m³/s) Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	428	404	928	417	603	3200	1760	1760	1080	590	408	332
2	427	401	705	429	585	2750	1620	1730	1110	580	404	494
3	422	404	578	442	562	2350	1570	1740	1150	576	397	490
4	419	404	534	440	580	2380	1520	1870	1190	571	393	446
5	416	404	693	442	571	2450	1540	2000	1130	567	393	427
6	418	404	630	438	571	2900	1770	2220	1200	567	393	419
7	416	404	547	437	576	4150	1630	2260	1010	562	389	412
8	416	404	500	502	567	3650	1560	2070	906	549	386	401
9	414	404	497	641	580	3270	1510	1900	889	522	382	393
10	412	399	488	807	594	3000	1470	1840	900	594	382	386
11	412	397	493	6930	782	2750	1470	1840	906	618	382	389
12	412	404	530	3570	1010	2520	1400	1910	889	562	378	386
13	408	417	519	1960	3830	2360	1420	2050	866	526	375	386
14	408	416	499	1570	3720	2200	1440	2200	815	514	378	378
15	408	410	485	1470	2330	2300	1420	2280	776	498	382	378
16	403	421	476	1270	2010	2550	1450	2170	760	482	382	375
17	401	426	478	1110	1690	2350	1450	2080	755	466	382	371
18	404	423	480	995	1800	2100	1350	2030	725	458	382	367
19	404	457	457	906	2030	1950	1280	2010	705	450	378	367
20	404	545	439	854	1870	1800	1230	2050	700	442	386	371
21	397	532	451	809	2150	1690	1200	2040	705	450	419	371
22	431	548	457	787	1970	1610	1250	1900	705	446	423	371
23	426	488	450	760	1970	1560	1370	1730	705	438	412	371
24	402	457	450	735	1750	1510	1520	1550	705	427	401	371
25	401	445	450	715	1620	1500	1500	1470	710	419	397	651
26	401	438	446	675	1750	1490	1560	1530	705	419	393	735
27	401	428	443	660	1800	1800	2180	1510	685	423	393	720
28	401	430	444	646	2300	2980	2020	1310	660	423	389	710
29	399	546	436	608	---	2450	1890	1170	636	419	389	590
30	397	869	416	613	---	2150	1780	1090	613	419	389	423
31	395	---	407	618	---	1890	---	1080	---	416	304	---
TOTAL	12703	13529	15806	33256	42171	73610	46130	56390	25291	15393	12041	13281
MEAN	410	451	510	1073	1506	2375	1538	1819	843	497	388	443
MAX	431	869	928	6930	3830	4150	2180	2280	1200	618	423	735
MIN	395	397	407	417	562	1490	1200	1080	613	416	304	332
AC-FT	25200	26830	31350	65960	83650	146000	91500	111800	50160	30530	23880	26340
CAL YR 1978	TOTAL	637646	MEAN	1747	MAX	16200	MIN	395	AC-FT	1265000		
WTR YR 1979	TOTAL	359601	MEAN	985	MAX	6930	MIN	304	AC-FT	713300		

KLAMATH RIVER BASIN

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 current year.

SEDIMENT RECORDS: Water year 1968.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1961 to September 1964, October 1966 to September 1967, October 1968 to current year.

INSTRUMENTATION.--Temperature recorder since October 1961.

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, 27.0°C Aug. 17-19, 24, 1967; minimum recorded, 0.0°C Dec. 7-11, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 25.0°C July 16-19; minimum recorded, 1.5°C Jan. 1, Feb. 2, 3.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	14.0	9.0	7.0	8.5	7.0	2.5	1.5	3.5	2.5	6.5	5.5
2	17.0	14.0	9.0	7.5	7.0	6.0	3.5	2.5	2.5	1.5	6.0	6.0
3	17.0	13.5	9.0	7.5	6.0	6.0	4.0	3.0	3.0	1.5	6.5	6.0
4	17.0	13.5	10.5	8.5	7.0	6.0	4.5	4.0	4.5	3.0	7.5	6.5
5	17.0	14.0	10.5	10.0	7.0	5.5	4.5	4.5	5.5	4.0	9.0	7.5
6	16.5	14.0	10.0	8.5	5.5	4.5	4.5	4.0	6.5	5.0	9.5	8.0
7	16.0	14.0	9.0	8.0	4.5	3.5	5.5	4.5	6.5	5.0	9.5	8.0
8	16.0	13.0	9.0	7.0	4.5	3.5	6.0	5.5	6.5	4.5	9.5	7.5
9	16.0	13.5	9.0	7.0	5.5	4.5	6.5	6.0	7.0	6.0	9.5	7.0
10	15.5	13.0	7.0	5.5	6.0	5.0	6.5	6.5	6.5	6.5	9.5	7.0
11	15.5	13.0	5.5	4.5	7.0	6.0	7.0	6.5	7.0	6.5	9.5	8.0
12	15.5	13.5	5.0	4.5	7.0	6.5	6.5	6.0	6.5	6.0	10.5	8.0
13	14.0	11.5	5.0	4.5	6.5	6.0	6.0	5.5	6.5	6.0	9.0	8.0
14	14.0	11.5	5.5	5.0	6.0	5.5	6.0	5.5	6.0	5.5	9.5	8.5
15	14.0	12.0	6.0	5.0	5.5	5.0	5.5	5.5	5.5	5.0	8.5	7.0
16	15.0	13.5	7.0	6.0	5.0	4.5	5.5	5.5	5.5	4.5	7.5	7.0
17	15.0	13.5	7.5	7.0	5.0	5.0	5.5	5.0	6.0	5.5	8.0	7.0
18	14.5	12.5	7.5	7.5	5.0	5.0	5.5	5.0	6.0	5.5	8.5	8.0
19	14.0	12.0	8.5	7.5	5.0	4.0	5.0	4.5	6.5	5.5	10.0	8.0
20	13.5	12.5	8.0	7.5	4.5	4.0	5.0	4.5	6.5	6.0	9.5	8.0
21	13.5	12.5	8.5	7.5	4.5	4.5	5.5	5.0	6.5	5.5	10.5	8.0
22	13.0	11.5	8.0	7.5	5.5	4.5	5.0	4.5	7.0	6.5	10.0	8.0
23	12.5	10.5	7.5	7.5	5.5	5.0	4.5	4.0	7.0	6.5	11.5	8.0
24	12.5	10.5	7.5	7.0	6.0	5.5	4.5	4.0	7.5	6.5	12.0	9.0
25	12.5	10.5	7.0	6.5	6.0	5.5	4.5	3.5	8.0	7.5	11.5	9.0
26	12.0	10.5	7.0	6.5	5.5	5.0	4.0	3.0	7.5	7.0	9.5	9.0
27	11.5	10.0	6.5	6.5	5.0	5.0	4.0	3.5	7.5	6.5	9.0	8.0
28	11.5	9.5	7.5	6.5	5.0	4.0	3.5	2.5	7.0	6.0	9.0	8.0
29	10.0	9.0	7.5	7.5	4.0	3.5	3.0	2.0	---	---	9.5	8.0
30	9.0	8.0	8.5	8.5	3.5	2.5	3.0	3.0	---	---	10.0	7.5
31	8.5	7.0	---	---	2.5	2.0	3.5	2.5	---	---	10.5	7.5
MONTH	17.0	7.0	10.5	4.5	8.5	2.0	7.0	1.5	8.0	1.5	12.0	5.5

KLAMATH RIVER BASIN

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA

LOCATION.--Lat 40°39'00", long 123°29'35", in NW¼SW¼ sec.10, T.3 N., R.6 E., Trinity County, Hydrologic Unit 18010212, Trinity National Forest, on left bank 0.3 mi (0.5 km) downstream from Big Creek, 3.0 mi (4.8 km) northeast of Hyampom, and 3.5 mi (5.6 km) downstream from Hayfork Creek.

DRAINAGE AREA.--764 mi² (1,979 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 1,211.37 ft (369.226 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--14 years, 1,439 ft³/s (40.75 m³/s), 1,043,000 acre-ft/yr (1.29 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,300 ft³/s (1,960 m³/s) Jan. 16, 1974, gage height, 26.68 ft (8.132 m), from rating curve extended above 23,000 ft³/s (651 m³/s) on basis of flood-routing study at gage height 30.45 ft (9.281 m); minimum daily, 14 ft³/s (0.40 m³/s) Aug. 24, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 30.45 ft (9.281 m), from floodmarks, discharge, 88,000 ft³/s (2,490 m³/s), on basis of flood-routing study.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,120 ft³/s (230 m³/s) Feb. 13, gage height 10.92 ft (3.328 m), no peak above base of 8,600 ft³/s (244 m³/s); minimum daily, 39 ft³/s (1.10 m³/s) Sept. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	80	240	104	236	3400	1360	1040	518	185	65	60
2	98	80	220	115	221	2530	1240	967	491	184	68	74
3	98	80	185	119	203	2340	1180	901	470	180	64	89
4	95	80	162	124	217	2590	1140	859	445	174	63	86
5	95	82	161	127	222	2800	1110	1230	428	174	63	77
6	93	86	151	128	217	3620	1140	1870	417	172	63	72
7	89	86	142	128	216	4200	1080	2430	403	167	62	68
8	89	86	128	203	216	3950	1040	2240	391	164	61	65
9	89	86	123	361	220	3550	1040	1910	376	157	60	62
10	88	86	129	493	242	3200	1020	1730	362	170	57	61
11	86	86	141	3310	318	3080	1090	1580	345	168	57	60
12	86	87	149	2030	415	2960	1020	1460	326	157	57	59
13	84	97	149	1100	5710	2670	999	1340	323	147	57	54
14	80	102	143	888	4350	2370	950	1250	318	140	57	51
15	80	106	132	841	2370	2460	903	1180	312	135	57	50
16	80	111	130	660	1850	2530	952	1110	305	130	57	49
17	80	117	135	545	1590	2230	1050	1030	307	124	57	46
18	80	119	140	479	1990	1980	918	957	309	117	57	43
19	80	140	139	421	2200	1940	846	908	295	113	57	43
20	80	218	127	374	1950	1770	799	867	281	106	57	42
21	80	254	111	349	2160	1610	769	825	269	102	60	41
22	80	221	118	335	2030	1480	755	790	254	100	62	40
23	80	182	122	318	1960	1340	826	752	247	96	63	39
24	80	155	122	309	1660	1220	1060	711	238	94	63	39
25	80	142	122	298	1520	1180	954	673	227	87	62	48
26	80	134	122	269	1850	1190	1020	646	215	84	59	52
27	80	128	120	260	1840	2000	1390	625	206	81	57	53
28	80	122	122	270	2900	2830	1340	605	203	78	56	54
29	80	124	122	233	---	2120	1220	583	197	73	56	54
30	80	139	103	227	---	1750	1120	563	193	69	56	50
31	80	---	92	248	---	1520	---	540	---	70	57	---
TOTAL	2628	3616	4302	15666	40873	74410	31331	34172	9671	3998	1847	1681
MEAN	84.8	121	139	505	1460	2400	1044	1102	322	129	59.6	56.0
MAX	98	254	240	3310	5710	4200	1390	2430	518	185	68	89
MIN	80	80	92	104	203	1180	755	540	193	69	56	39
AC-FT	5210	7170	8530	31070	81070	147600	62150	67780	19180	7930	3660	3330
CAL YR 1978	TOTAL	574255	MEAN	1573	MAX	21500	MIN	80	AC-FT	1139000		
WTR YR 1979	TOTAL	224195	MEAN	614	MAX	5710	MIN	39	AC-FT	444700		

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to May 1979 (discontinued).
 CHEMICAL ANALYSES: Water year 1977.
 WATER TEMPERATURES: Water years 1966 to May 1979 (discontinued).
 SEDIMENT RECORDS: Water years 1967-70.

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: October 1965 to May 1979.
 SEDIMENT RECORDS: October 1966 to September 1970.

INSTRUMENTATION.--Temperature recorder since October 1965.

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, 29.0°C June 30, July 1, 3, 1967, Aug. 1, 2, 1968; minimum recorded, 0.0°C several days in 1965, 1967-68, 1972.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum for period recorded, 21.5°C Oct. 1, 2, 4; minimum for period recorded, 1.0°C Jan. 29.

TEMPERATURE (DEG. C) OF WATER, PERIOD OCTOBER 1978 TO MAY 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	15.5	14.0	8.5	9.5	8.0	---	---	4.5	2.5	6.0	4.5
2	21.5	15.0	14.0	8.5	9.5	7.0	---	---	6.0	1.5	5.5	5.0
3	21.0	14.5	13.5	8.5	9.0	7.0	---	---	6.0	1.5	6.5	5.5
4	21.5	14.5	13.5	9.5	9.0	6.5	---	---	7.5	3.5	8.0	6.0
5	22.0	15.0	15.5	12.0	8.0	5.5	---	---	7.0	4.5	9.0	7.5
6	21.0	15.0	14.5	9.5	7.0	4.5	---	---	9.5	5.5	10.0	8.0
7	20.5	14.5	14.5	9.5	6.0	3.5	---	---	9.0	5.5	9.5	8.0
8	21.0	14.0	14.0	8.5	5.5	3.0	---	---	10.0	5.0	---	---
9	20.5	14.5	12.5	8.5	6.5	5.0	---	---	9.5	7.0	---	---
10	20.5	14.0	10.5	6.0	8.0	6.0	---	---	10.0	7.5	---	---
11	20.5	14.0	10.5	5.5	8.0	7.5	---	---	10.0	8.0	---	---
12	21.0	14.0	6.5	5.0	9.0	7.0	---	---	8.5	7.5	---	---
13	21.0	14.0	8.5	5.5	8.5	6.0	---	---	7.5	6.5	---	---
14	20.0	14.0	9.5	6.0	6.5	6.0	---	---	7.0	5.5	---	---
15	20.0	14.5	7.0	4.5	7.5	5.5	---	---	5.5	4.0	---	---
16	20.0	15.0	8.5	7.0	---	---	---	---	5.0	3.0	---	---
17	20.0	16.0	9.5	8.0	---	---	---	---	5.5	4.5	---	---
18	20.0	14.0	11.5	8.5	---	---	6.5	4.5	6.0	5.0	---	---
19	18.0	13.5	11.5	9.0	---	---	7.0	4.0	7.0	6.0	---	---
20	17.5	13.5	9.5	9.0	---	---	6.5	4.0	6.0	5.0	---	---
21	18.5	14.0	10.5	8.5	---	---	7.0	4.0	6.0	4.5	---	---
22	18.5	12.5	10.5	8.0	---	---	7.0	3.5	6.0	5.0	---	---
23	17.5	11.5	9.0	8.0	---	---	6.0	2.5	6.0	5.0	---	---
24	17.5	12.0	8.5	7.5	---	---	5.5	3.0	7.0	5.0	---	---
25	17.5	11.0	8.5	7.0	---	---	6.0	2.5	7.0	5.0	---	---
26	17.5	11.5	8.5	7.0	---	---	5.5	1.5	8.0	6.0	---	---
27	16.5	11.0	9.0	7.0	---	---	5.5	3.5	7.0	5.5	---	---
28	15.5	10.5	10.0	7.0	---	---	6.0	2.5	6.5	6.0	---	---
29	14.5	10.5	10.5	9.0	---	---	5.0	1.0	---	---	---	---
30	14.5	10.0	10.5	9.5	---	---	4.0	2.5	---	---	---	---
31	14.0	8.5	---	---	---	---	5.0	3.0	---	---	---	---
MONTH	22.0	8.5	15.5	4.5	9.5	3.0	7.0	1.0	10.0	1.5	10.0	4.5

11530000 TRINITY RIVER AT HOOPA, CA

LOCATION.--Lat 41°03'00", long 123°40'15", in SE¼NW¼ 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 (0.6 km) upstream from Supply Creek.

DRAINAGE AREA.--2,853 mi² (7,389 km²).

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 (83.765 m) National Geodetic Vertical Datum of 1929. Prior to October 1931, nonrecording gage at site 0.4 mi (0.6 km) upstream at different datum. October 1931 to Dec. 22, 1964, water-stage recorder at site 2.5 mi (4.0 km) upstream at datum 31.67 ft (9.653 m) higher.

REMARKS.--Records good. Flow regulated since November 1960 by Clair Engle Lake (station 11525400) 84 mi (135 km) upstream. Small diversions above station for mining and irrigation.

AVERAGE DISCHARGE (unadjusted).--52 years (water years 1912-13, 1917-18, 1932-79), 5,267 ft³/s (149.2 m³/s), 3,816,000 acre-ft/yr (4.71 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 231,000 ft³/s (6,540 m³/s) Dec. 22, 1964, gage height, 57.0 ft (17.37 m) present site and datum, from floodmarks; minimum, 162 ft³/s (4.59 m³/s) Oct. 4, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 22,000 ft³/s (623 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 11	unknown	*28000	793	25.70	7.833
Feb. 13	2145	23200	657	24.32	7.413

Minimum daily discharge, 567 ft³/s (16.1 m³/s) Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	735	674	2010	747	1280	10500	4330	3870	2250	1060	683	567
2	729	676	1600	776	1230	8310	4070	3780	2220	1050	674	673
3	720	677	1200	803	1190	7260	3860	3700	2210	1030	672	784
4	715	679	1060	808	1170	7400	3690	3750	2230	1020	661	744
5	710	679	1230	814	1200	7600	3700	4130	2150	1010	651	706
6	708	682	1280	814	1190	9470	3990	6000	2160	998	649	682
7	707	685	1070	814	1200	11600	3870	7780	2010	993	651	666
8	703	685	978	912	1200	11300	3620	7990	1840	979	640	652
9	702	682	931	1320	1220	10400	3550	6770	1740	958	635	638
10	697	678	929	2160	1290	9240	3490	6040	1710	991	631	629
11	696	674	984	18500	1720	8620	4560	5720	1690	1070	630	623
12	696	685	1020	11500	2220	8290	4120	5630	1640	997	628	617
13	695	709	1020	6230	13100	7590	3980	5550	1590	944	619	613
14	687	716	970	4580	15400	6900	3870	5480	1540	914	619	604
15	685	719	933	4050	7780	7090	3720	5330	1480	886	622	596
16	683	731	907	3370	6040	7930	3740	5000	1450	859	626	591
17	679	759	931	2860	5180	6930	4050	4700	1500	834	624	585
18	679	759	931	2500	5470	6120	3740	4500	1450	814	624	572
19	679	811	893	2200	6380	5580	3480	4330	1390	796	624	572
20	679	1010	856	1990	5610	5170	3310	4230	1340	784	626	575
21	679	1100	838	1850	6130	4810	3190	4120	1320	768	683	578
22	685	1050	842	1770	5830	4520	3170	3870	1300	768	689	576
23	712	969	842	1690	6030	4240	3310	3630	1280	758	678	575
24	689	883	842	1620	5460	4010	3710	3340	1260	746	662	570
25	676	839	842	1580	4970	3880	3720	3150	1240	734	655	672
26	674	815	842	1500	5320	3850	3710	3080	1220	717	645	903
27	673	798	837	1430	5550	4690	4580	3010	1190	714	634	898
28	670	797	823	1400	7840	7910	4670	2780	1150	708	633	882
29	668	912	818	1350	---	6420	4290	2570	1120	706	635	857
30	668	1360	792	1270	---	5320	4050	2400	1090	701	637	678
31	668	---	745	1300	---	4720	---	2310	---	695	623	---
TOTAL	21446	23893	30796	84508	128200	217670	115140	138540	47760	27002	19963	19878
MEAN	692	796	993	2726	4579	7022	3838	4469	1592	871	644	663
MAX	735	1360	2010	18500	15400	11600	4670	7990	2250	1070	689	903
MIN	668	674	745	747	1170	3850	3170	2310	1090	695	619	567
AC-FT	42540	47390	61080	167600	254300	431700	228400	274800	94730	53560	39600	39430
CAL YR 1978	TOTAL	1798280	MEAN	4927	MAX	55900	MIN	633	AC-FT	3567000		
WTR YR 1979	TOTAL	874796	MEAN	2397	MAX	18500	MIN	567	AC-FT	1735000		

KLAMATH RIVER BASIN

1153000 TRINITY RIVER AT HOOPA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
 CHEMICAL ANALYSES: Water years 1951 to current year.
 WATER TEMPERATURES: Water years 1957 to current year.
 SEDIMENT RECORDS.--Water years 1955 to September 1979 (discontinued).
 Prior to October 1964, published as "near Hoopa."

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: November 1956 to current year.
 SEDIMENT RECORDS: November 1956 to September 1979.

REVISED RECORDS.--WDR CA-70-P2: 1969, sediment.

INSTRUMENTATION.--Temperature recorder since March 1964.

REMARKS.--Measurement of suspended sediment made at bridge on State Highway 96, 1.0 mi (1.6 km) downstream from gaging station. No appreciable inflow between sampling point and gaging station except during periods of heavy runoff. 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.

COOPERATION.--Chemical-quality records were furnished by California Department of Water Resources.

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.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 20,400 mg/L Dec. 23, 1964; minimum daily mean, 1 mg/L many days in 1957-64, 1968-70, 1976-77.
 SEDIMENT DISCHARGE: Maximum daily, 8,900,000 tons (8,070,000 metric tons) Dec. 23, 1964; minimum daily, 0.76 ton (0.69 metric ton) July 27, 1977.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum recorded, 27.5°C July 20; minimum recorded, 1.5°C Nov. 1.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,610 mg/L Jan. 11; minimum daily mean, 1 mg/L many days.
 SEDIMENT DISCHARGE: Maximum daily, 97,500 tons (88,500 metric tons) Jan. 11; minimum daily, 1.5 ton (1.4 metric tons) Sept. 18-19, 24.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATURATION)	HARDNESS (MG/L AS CaCO_3)	HARDNESS, NONCARBONATE (MG/L CaCO_3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
OCT											
02...	0900	685	180	7.9	16.5	.00	9.3	96	90	9	--
NOV											
06...	1100	635	218	8.1	11.0	1.0	11.3	103	--	--	--
DEC											
05...	1015	1120	180	8.0	7.0	1.0	11.9	99	--	--	--
JAN											
02...	1000	736	185	7.6	2.0	1.0	13.6	99	--	--	--
FEB											
13...	1115	9660	135	7.7	8.5	50	11.3	97	--	--	--
MAR											
13...	1015	7660	126	7.7	10.5	--	11.4	103	64	6	16
APR											
03...	1320	3860	160	7.8	12.5	3.0	11.3	107	--	--	--
MAY											
07...	1125	7880	142	7.4	10.0	20	11.4	102	60	3	16
JUN											
05...	1100	2090	145	7.8	20.0	1.0	9.0	99	--	--	--
JUL											
09...	0920	959	174	8.0	20.0	.00	8.9	98	--	--	--
AUG											
07...	0900	652	179	8.0	22.0	1.0	8.2	94	--	--	--
SEP											
05...	1005	707	181	7.6	21.0	.00	9.4	106	79	3	20

11530000 TRINITY RIVER AT HOOPA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	735	3	6.0	674	2	3.6	2010	76	397
2	729	4	7.9	676	3	5.5	1600	35	151
3	720	3	5.8	677	3	5.5	1200	19	62
4	715	2	3.9	679	5	9.2	1060	10	29
5	710	2	3.8	679	8	15	1230	14	46
6	708	2	3.8	682	6	11	1280	16	55
7	707	2	3.8	685	3	5.5	1070	15	43
8	703	2	3.8	685	1	1.8	978	14	37
9	702	3	5.7	682	1	1.8	931	13	33
10	697	3	5.6	678	1	1.8	929	12	30
11	696	3	5.6	674	1	1.8	984	7	19
12	696	3	5.6	685	2	3.7	1020	7	19
13	695	3	5.6	709	5	9.6	1020	5	14
14	687	3	5.6	716	7	14	970	4	10
15	685	3	5.5	719	5	9.7	933	3	7.6
16	683	3	5.5	731	3	5.9	907	2	4.9
17	679	3	5.5	759	2	4.1	931	3	7.5
18	679	3	5.5	759	2	4.1	931	3	7.5
19	679	2	3.7	811	2	4.4	893	5	12
20	679	2	3.7	1010	3	8.2	856	3	6.9
21	679	2	3.7	1100	3	8.9	838	2	4.5
22	685	2	3.7	1050	3	8.5	842	1	2.3
23	712	3	5.8	969	2	5.2	842	1	2.3
24	689	3	5.6	883	1	2.4	842	1	2.3
25	676	2	3.7	839	1	2.3	842	2	4.5
26	674	2	3.6	815	1	2.2	842	8	18
27	673	2	3.6	798	1	2.2	837	4	9.0
28	670	2	3.6	797	6	13	823	3	6.7
29	668	2	3.6	912	8	20	818	2	4.4
30	668	2	3.6	1360	30	119	792	2	4.3
31	668	2	3.6	---	---	---	745	2	4.0
TOTAL	21446	---	146.0	23893	---	309.9	30796	---	1053.7
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	747	2	4.0	1280	6	21	10500	230	6630
2	776	2	4.2	1230	3	10	8310	117	2630
3	803	2	4.3	1190	1	3.2	7260	115	2250
4	808	2	4.4	1170	1	3.2	7400	120	2400
5	814	3	6.6	1200	1	3.2	7600	95	1950
6	814	3	6.6	1190	1	3.2	9470	150	3840
7	814	2	4.4	1200	1	3.2	11600	360	11400
8	912	6	15	1200	1	3.2	11300	380	11600
9	1320	18	64	1220	2	6.6	10400	320	8990
10	2160	101	800	1290	3	10	9240	240	5990
11	18500	1610	97500	1720	10	46	8620	190	4420
12	11500	500	15500	2220	30	188	8290	155	3470
13	6230	92	1550	13100	422	19200	7590	108	2210
14	4580	49	606	15400	210	9400	6900	83	1550
15	4050	27	295	7780	116	2440	7090	78	1490
16	3370	21	191	6040	110	1790	7930	78	1670
17	2860	27	208	5180	77	1080	6930	60	1120
18	2500	36	243	5470	120	1770	6120	57	942
19	2200	34	202	6380	118	2030	5580	53	798
20	1990	32	172	5610	36	545	5170	50	698
21	1850	30	150	6130	47	778	4810	46	597
22	1770	28	134	5830	40	630	4520	42	513
23	1690	26	119	6030	43	700	4240	38	435
24	1620	24	105	5460	32	472	4010	34	368
25	1580	22	94	4970	25	335	3880	30	314
26	1500	20	81	5320	30	431	3850	30	312
27	1430	18	69	5550	33	495	4690	51	663
28	1400	17	64	7840	155	3550	7910	152	3310
29	1350	14	51	---	---	---	6420	70	1210
30	1270	12	41	---	---	---	5320	32	460
31	1300	10	35	---	---	---	4720	21	268
TOTAL	84508	---	118323.5	128200	---	45946.8	217670	---	84498

KLAMATH RIVER BASIN

11530000 TRINITY RIVER AT HOOPA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	4330	16	187	3870	20	209	2250	5	30			
2	4070	13	143	3780	13	133	2220	5	30			
3	3860	11	115	3700	10	100	2210	5	30			
4	3690	10	100	3750	8	81	2230	5	30			
5	3700	16	160	4130	23	256	2150	5	29			
6	3990	22	237	6000	40	648	2160	5	29			
7	3870	23	240	7780	170	3750	2010	5	27			
8	3620	17	166	7990	185	3990	1840	5	25			
9	3550	13	125	6770	105	1920	1740	4	19			
10	3490	16	151	6040	60	978	1710	4	18			
11	4560	57	718	5720	38	587	1690	4	18			
12	4120	24	267	5630	24	365	1640	4	18			
13	3980	18	193	5550	13	195	1590	4	17			
14	3870	15	157	5480	13	192	1540	4	17			
15	3720	15	151	5330	13	187	1480	4	16			
16	3740	19	192	5000	14	189	1450	4	16			
17	4050	24	262	4700	16	203	1500	3	12			
18	3740	16	162	4500	14	170	1450	3	12			
19	3480	10	94	4330	12	140	1390	3	11			
20	3310	7	63	4230	10	114	1340	3	11			
21	3190	6	52	4120	14	156	1320	3	11			
22	3170	6	51	3870	16	167	1300	3	11			
23	3310	5	45	3630	27	265	1280	3	10			
24	3710	4	40	3340	10	90	1260	2	6.8			
25	3720	3	30	3150	8	68	1240	2	6.7			
26	3710	3	30	3080	6	50	1220	2	6.6			
27	4580	20	247	3010	6	49	1190	3	9.6			
28	4670	35	441	2780	6	45	1150	3	9.3			
29	4290	31	359	2570	6	42	1120	4	12			
30	4050	28	306	2400	6	39	1090	4	12			
31	---	---	---	2310	6	37	---	---	---			
TOTAL	115140	---	5484	138540	---	15415	47760	---	510.0			
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	1060	5	14	683	1	1.8	567	2	3.1			
2	1050	3	8.5	674	1	1.8	673	3	5.5			
3	1030	4	11	672	1	1.8	784	5	11			
4	1020	4	11	661	1	1.8	744	4	8.0			
5	1010	5	14	651	1	1.8	706	3	5.7			
6	998	6	16	649	1	1.8	682	3	5.5			
7	993	9	24	651	1	1.8	666	3	5.4			
8	979	8	21	640	1	1.7	652	3	5.3			
9	958	7	18	635	1	1.7	638	3	5.2			
10	991	6	16	631	1	1.7	629	3	5.1			
11	1070	4	12	630	1	1.7	623	3	5.0			
12	997	3	8.1	628	1	1.7	617	2	3.3			
13	944	2	5.1	619	1	1.7	613	2	3.3			
14	914	3	7.4	619	1	1.7	604	2	3.3			
15	886	5	12	622	2	3.4	596	2	3.2			
16	859	7	16	626	2	3.4	591	2	3.2			
17	834	4	9.0	624	2	3.4	585	2	3.2			
18	814	2	4.4	624	2	3.4	572	1	1.5			
19	796	1	2.1	624	2	3.4	572	1	1.5			
20	784	1	2.1	626	2	3.4	575	1	1.6			
21	768	1	2.1	683	6	11	578	1	1.6			
22	768	2	4.1	689	5	9.3	576	1	1.6			
23	758	2	4.1	678	5	9.2	575	1	1.6			
24	746	2	4.0	662	4	7.1	570	1	1.5			
25	734	2	4.0	655	4	7.1	672	3	5.4			
26	717	2	3.9	645	4	7.0	903	4	9.8			
27	714	2	3.9	634	3	5.1	898	3	7.3			
28	708	1	1.9	633	3	5.1	882	3	7.1			
29	706	1	1.9	635	3	5.1	857	3	6.9			
30	701	1	1.9	637	3	5.2	678	2	3.7			
31	695	1	1.9	623	2	3.4	---	---	---			
TOTAL	27002	---	265.4	19963	---	119.5	19878	---	135.4			
YEAR	874796		272207.2									

11530000 TRINITY RIVER AT HOOPA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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 11...	0735	8.0	16700	1400	63100	15	20	27
MAR 01...	1225	6.5	10800	228	6650	21	26	34
DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
JAN 11...	36	44	52	65	79	96	100	--
MAR 01...	41	48	53	60	71	87	97	100

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 SW¼ sec.13, T.13 N., R.2 E., Del Norte County, Hydrologic Unit 18010209, on right bank 0.2 mi (0.3 km) upstream from Turwar Creek, and 2.2 mi (3.5 km) southeast of Klamath.

DRAINAGE AREA.--12,100 mi² (31,340 km²), approximately (not including Lost River or Lower Klamath Lake basins).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to December 1926 (published as "near Requa"), October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1951(P). WSP 1445: 1918-20.

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 (4.2 km) upstream at different datum. June 1926 to Oct. 2, 1975, at site 2.6 mi (4.2 km) upstream at datum 5.60 ft (1.707 m) higher.

REMARKS.--Records fair. Flow generally affected by tide. Flow considerably regulated by reservoirs and powerplants above station. Large diversions for irrigation above station.

AVERAGE DISCHARGE.--45 years, 17,320 ft³/s (490.5 m³/s), 12,550,000 acre-ft/yr (15.5 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 557,000 ft³/s (15,800 m³/s) Dec. 23, 1964, gage height, 55.3 ft (16.86 m) former datum, from floodmarks, from rating curve extended above 230,000 ft³/s (6,510 m³/s) on basis of flood-routing study; minimum daily, 1,310 ft³/s (37.1 m³/s) Sept. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 98,800 ft³/s (2,800 m³/s) Jan. 11 (1945 hrs), gage height, 20.16 ft (6.145 m), no other peak above base of 90,000 ft³/s (2,550 m³/s); minimum daily, 3,010 ft³/s (85.2 m³/s) Aug. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4000	3990	14100	5550	7990	37100	16000	16200	10200	4890	3090	3300
2	4000	4030	11500	5540	7870	31100	15200	15800	9920	4790	3290	3560
3	4000	3960	8510	6710	8080	28900	14500	15500	9710	4670	3360	4120
4	4020	3910	7630	7230	8280	29300	13800	15800	9800	4550	3360	4040
5	4010	3910	9890	6450	7410	29300	13500	19900	9580	4490	3300	3840
6	4020	3900	10000	5530	7300	31500	14600	31500	9170	4430	3260	3690
7	3940	3900	8470	5510	7200	35300	14900	37300	9130	4380	3300	3590
8	3940	3930	7530	5590	7280	35800	14300	35800	8550	4260	3240	3490
9	3860	3930	6930	7230	7480	34100	14300	30800	8020	4320	3240	3530
10	3870	4130	6630	10900	8400	32100	14400	28400	7690	4660	3180	3520
11	3840	4190	7290	67400	14800	30600	18600	27400	7580	4790	3160	3420
12	3800	4290	8360	60700	18100	30200	18300	27300	7480	4500	3150	3270
13	3690	4220	7820	33800	43000	29200	17600	27800	7320	4240	3120	3070
14	3710	4270	7310	24500	49400	27800	17400	27800	6990	4120	3060	3110
15	3740	4730	6980	20300	32500	28700	17100	27700	6740	4000	3080	3350
16	3740	4770	6900	17300	26500	30200	18900	25800	6710	3970	3060	3440
17	3800	4700	6930	15100	23600	27500	23000	23400	6840	3890	3070	3440
18	3880	4730	7020	13500	24000	24900	20900	21700	6770	3760	3070	3380
19	3920	5120	6770	12200	25800	22800	18600	20200	6630	3630	3010	3300
20	3910	6550	6490	11300	24000	21500	17100	20100	6430	3560	3070	3300
21	3870	6450	6050	10600	25500	20700	16000	19800	6150	3510	3120	3300
22	3900	5840	6110	10200	24800	19800	15400	18800	5980	3530	3300	3300
23	3890	5590	5900	9770	26600	18500	16200	17800	5880	3470	3280	3290
24	3910	5340	5890	9460	25600	17400	16400	16400	5770	3420	3240	3300
25	3870	5240	6010	9310	22700	16900	16000	15200	5640	3400	3170	3260
26	3880	5150	6010	8840	24300	16800	15600	14600	5520	3370	3140	3520
27	3860	5040	5940	8410	24400	17400	16900	14300	5420	3320	3080	3870
28	3950	4900	5960	8510	34900	20400	17400	13700	5270	3240	3070	3790
29	3970	5600	6040	8500	---	20800	16900	12500	5180	3200	3070	3750
30	4000	9110	5870	8010	---	18400	16500	11500	5080	3180	3070	3590
31	3990	---	5660	8130	---	16900	---	10700	---	3160	3220	---
TOTAL	120780	145420	228500	442080	567790	801900	496300	661500	217150	122700	98230	104730
MEAN	3896	4847	7371	14260	20280	25870	16540	21340	7238	3958	3169	3491
MAX	4020	9110	14100	67400	49400	37100	23000	37300	10200	4890	3360	4120
MIN	3690	3900	5660	5510	7200	16800	13500	10700	5080	3160	3010	3070
AC-FT	239600	288400	453200	876900	1126000	1591000	984400	1312000	430700	243400	194800	207700
CAL YR 1978	TOTAL	6035870	MEAN	16540	MAX	122000	MIN	3240	AC-FT	11970000		
WTR YR 1979	TOTAL	4007080	MEAN	10980	MAX	67400	MIN	3010	AC-FT	7948000		

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 to current year.
 SPECIFIC CONDUCTANCE: Water years 1975 to current year.
 WATER TEMPERATURES: Water years 1966 to current year.
 SEDIMENT RECORDS: Water years 1955-56, 1975 to current year.

PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: October 1974 to current year.
 WATER TEMPERATURES: November 1965 to current year.

INSTRUMENTATION.--Temperature recorder since 1965.

REMARKS.--Difference between recorder values before adjustment and field measurement values exceeded ±1.0°C for water temperature at times during the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: Maximum recorded, 27.0°C Sept. 12, 1979; minimum recorded, 2.5°C Feb. 2, 1972.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum recorded, 27.0°C Sept. 12, minimum recorded, 3.0°C Dec. 31, Jan. 1, 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLIFORM, FECAL, UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS, AS CaCO3 (MG/L)	HARDNESS, NONCARBONATE, AS CaCO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS Ca)
OCT 25...	1515	3390	177	8.7	15.5	1.0	12.2	K3	K1	83	3	19
NOV 27...	1530	4520	189	8.0	9.5	1.3	12.4	K1	K2	79	0	17
DEC 21...	1315	5410	169	8.1	5.5	1.6	12.7	K1	K2	71	1	15
JAN 24...	1445	9300	158	7.2	5.5	4.4	11.9	K3	K4	69	6	15
FEB 23...	1400	25800	126	7.1	7.0	27	11.8	18	15	59	7	14
MAR 26...	1550	15200	138	7.2	10.5	5.7	10.9	K1	K3	65	2	15
APR 24...	1430	15600	126	7.7	12.5	8.7	11.0	K4	K3	55	1	12
MAY 22...	1500	18800	105	7.4	16.5	10	9.6	K3	K3	48	7	11
JUN 28...	1330	5260	158	7.9	19.0	1.1	9.5	K4	K3	68	7	16
JUL 26...	1245	3400	167	7.9	22.0	1.5	9.2	K2	K6	73	0	17
AUG 30...	1415	3070	172	8.1	21.0	1.2	9.0	K2	K4	74	4	17
SEP 25...	1200	3260	180	8.1	18.0	.70	8.5	23	14	76	6	17

DATE	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY AS CaCO3 (MG/L)	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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)
OCT 25...	8.7	11	22	.5	1.6	80	12	5.4	.1	19	125	125
NOV 27...	8.8	11	23	.5	1.6	80	11	5.5	.1	25	125	128
DEC 21...	8.2	8.4	20	.4	1.3	70	10	4.9	.1	23	121	113
JAN 24...	7.6	7.8	19	.4	1.1	63	12	4.2	.1	21	100	107
FEB 23...	5.9	4.1	13	.2	.6	52	11	2.8	.1	14	86	84
MAR 26...	6.6	5.6	16	.3	.9	63	8.9	2.5	.1	14	93	92
APR 24...	6.0	4.4	15	.3	.8	54	7.4	2.3	.1	14	73	79
MAY 22...	5.1	2.9	11	.2	.8	41	5.9	1.5	.1	11	65	63
JUN 28...	6.9	5.4	22	.3	.9	61	5.1	3.0	.0	14	92	88
JUL 26...	7.5	6.6	16	.3	1.2	73	8.9	3.5	.1	16	82	105
AUG 30...	7.6	8.4	20	.4	1.4	70	13	4.4	.1	17	110	111
SEP 25...	8.2	11	23	.5	1.6	70	20	5.1	.1	22	121	128

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

KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (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)
OCT 25...	.17	1140	.02	--	.01	.29	.30	--	.32	.10	.09
NOV 27...	.17	1530	.33	--	.01	.34	.35	.29	.68	.14	.07
DEC 21...	.16	1770	.31	--	.01	.25	.26	.21	.57	.07	.07
JAN 24...	.14	2510	.27	--	.01	.41	.42	--	.69	.08	.06
FEB 23...	.12	5990	.14	--	.02	.11	.13	.15	.27	.04	.05
MAR 26...	.13	3820	.07	--	.01	.04	.05	.09	.12	.02	.02
APR 24...	.10	3070	.01	--	.01	.18	.19	.09	.20	.01	.01
MAY 22...	.09	3300	.02	--	.03	.01	.04	--	.06	.03	.03
JUN 28...	.13	1310	.01	--	.00	.07	.07	.10	.08	.01	.01
JUL 26...	.11	753	.00	--	.01	.23	.24	.05	.24	.04	.03
AUG 30...	.15	912	.01	--	.02	.35	.37	.21	.38	.02	.03
SEP 25...	.16	1070	.14	.12	.03	.70	.73	.58	.87	.06	.05

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
DEC 21...	1315	2	3	0	20	1	2	30	0
MAR 26...	1550	1	2	0	0	0	0	10	0
JUN 28...	1330	4	3	0	30	0	1	0	0
SEP 25...	1200	3	3	0	40	0	<1	10	10

DATE	COHALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COHALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
DEC 21...	2	<3	12	2	270	40	14	4	10
MAR 26...	0	0	6	0	740	20	23	2	30
JUN 28...	0	<3	5	1	150	10	6	0	10
SEP 25...	0	<3	2	1	80	20	5	0	10

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 21...	8	.0	.0	0	0	0	0	20	<3
MAR 26...	0	.0	.0	0	0	0	0	20	10
JUN 28...	2	.0	.0	0	0	0	0	10	7
SEP 25...	<1	.0	.0	0	0	0	0	20	<3

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	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 YI-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS YI-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRACTION (UG/L)
DEC 21...	1315	--	--	<1.2	<.4	1.4	<.4	1.4	<.4	.04	.12
JUN 28...	1330	<.5	<.3	<.8	<.4	1.0	<.4	.9	<.4	.05	.08

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)
OCT 25...	1515	3.6	--	--	--	--	--	--	--	--	--	--
NOV 27...	1530	3.0	--	--	ND	ND	ND	ND	ND	ND	ND	ND
DEC 21...	1315	--	2.7	.2	--	--	--	--	--	--	--	--
JAN 24...	1445	2.8	--	--	--	--	--	--	--	--	--	--
FEB 23...	1400	2.5	--	--	ND	ND	ND	ND	ND	ND	ND	ND
MAR 26...	1550	--	2.0	.2	--	--	--	--	--	--	--	--
APR 24...	1430	2.2	--	--	--	--	--	--	--	--	--	--
MAY 22...	1500	1.6	--	--	ND	ND	ND	ND	ND	ND	ND	ND
JUN 28...	1330	--	3.0	.2	--	--	--	--	--	--	--	--
JUL 26...	1245	2.5	--	--	--	--	--	--	--	--	--	--
AUG 30...	1415	7.8	--	--	ND	ND	ND	ND	ND	ND	ND	ND
SEP 25...	1200	--	3.4	.8	--	--	--	--	--	--	--	--

DATE	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL-PARA-THION, TOTAL (UG/L)	METHYL-TRI-THION, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)
OCT 25...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 27...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC 21...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 24...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAR 26...	--	--	--	--	--	--	--	--	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 22...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN 28...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 30...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SEP 25...	--	--	--	--	--	--	--	--	--	--	--	--

ND Material specifically analyzed for but not detected.

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	NOV 27,78 1630	MAR 26,79 1550	MAY 22,79 1500	JUN 28,79 1330
TOTAL CELLS/ML	42	6600	90	310
DIVERSITY: DIVISION	0.9	0.3	0.9	1.5
..CLASS	0.9	0.3	0.9	1.5
...ORDER	0.9	0.5	1.4	2.0
...FAMILY	1.6	0.5	1.4	2.9
...GENUS	1.6	0.5	1.4	2.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...HYDRODICTYACEAE								
...PEDIASTRUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
...ANKISTRODESMUS	--	-	--	-	--	-	--	-
...CHLORELLA	--	-	--	-	--	-	--	-
...OOCYSTIS	--	-	--	-	52#	57	--	-
...SELENASTRUM	--	-	--	-	--	-	--	-
...TETRAEDRON	--	-	--	-	--	-	--	-
...SCENEDESHACEAE								
...SCENEDESMUS	--	-	120	2	--	-	52#	17
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	--	-	120	2	13	14	26	8
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISACEAE								
...CYCLOTELLA	--	-	6100#	94	26#	29	26	8
...PENNALES								
...ACHNANTHACEAE								
...COCCONEIS	14#	33	59	1	--	-	13	4
...RHOICOSPHEMIA	--	-	59	1	--	-	--	-
...CYMBELLACEAE								
...EPTHEMIA	--	-	--	-	--	-	13	4
...DIATOMACEAE								
...DIATOMA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
...SYNEDRA	--	-	--	-	--	-	13	4
...GOMPHONEHATAACEAE								
...GOMPHONEMA	--	-	--	-	--	-	26	8
...NAVICULACEAE								
...NAVICULA	14#	33	--	-	--	-	--	-
...NITZSCHIA	--	-	--	-	--	-	77#	25
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
...AGMENELLUM	--	-	--	-	--	-	--	-
...ANACYSTIS	--	-	--	-	--	-	64#	21
...HORMOGONALES								
...NOSTOCAEAE								
...ANABAENA	--	-	--	-	--	-	--	-
...OSCILLATORIAEAE								
...SCHIZOTHRIX	--	-	--	-	--	-	--	-
...RIVULARIAEAE								
...RAPHIIDIOPSIS	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
...EUGLENA	--	-	59	1	--	-	--	-
...TRACHELOHONAS	14#	33	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	JUL 26,79 1245	AUG 30,79 1415	SEP 25,79 1200			
TOTAL CELLS/ML	2100	4500	410			
DIVERSITY: DIVISION	1.3	1.1	0.9			
..CLASS	1.3	1.1	0.9			
..ORDER	1.5	1.1	1.1			
...FAMILY	1.8	2.1	1.7			
....GENUS	2.4	2.1	1.7			
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
..CHLOROCOCCALES						
...HYDRODICTYACEAE						
....PEDIASTRUM	--	--	43	1	--	--
...OOCYSTACEAE						
....ANKISTRODESMUS	78	4	--	--	--	--
...CHLORELLA	--	--	2800#	62	--	--
...OOCYSTIS	--	--	--	--	--	--
...SELENASTRUM	26	1	--	--	--	--
...TETRAEDRON	13	1	*	0	--	--
...SCENEDESMACEAE						
....SCENEDESMUS	570#	27	540	12	260#	63
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	39	2	--	--	13	3
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCAEAE						
....CYCLOTELLA	130	6	--	--	--	--
..PENNALES						
...ACHNANTHACEAE						
....COCCONEIS	--	--	*	0	--	--
...RHOICOSPHENIA	--	--	*	0	--	--
...CYMBELLACEAE						
....EPITHEMIA	13	1	130	3	--	--
...DIATOMACEAE						
....DIATOMA	--	--	*	0	--	--
...FRAGILARIACEAE						
....SYNEDRA	13	1	210	5	39	9
...GOMPHONEMATACEAE						
....GOMPHONEHA	--	--	*	0	13	3
...NAVICULACEAE						
....NAVICULA	26	1	43	1	65#	16
...NITZSCHTACEAE						
....NITZSCHIA	39	2	65	1	26	6
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	410#	20	--	--	--	--
...ANACYSTIS	760#	36	72	2	--	--
..HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	--	--	100	2	--	--
...OSCILLATORIACEAE						
....SCHIZOTHRIX	--	--	390	9	--	--
...RIVULARIACEAE						
....RAPHIDIOPSIS	--	--	87	2	--	--
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%

PERIPHYTON

DATE	TIME	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL W/IGHT G/SQ M	PERI- PHYTON BIOMASS ASH W/IGHT G/SQ M	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS)	
OCT	25...	1515	30	5.12	3.94	10.0	.000	--
NOV	27...	1530	33	5.75	4.25	36.1	.000	--
APP	24...	1430	29	27.9	26.7	6.31	1.38	190
JUL	24...	1245	25	16.8	14.4	7.29	.550	332
SEP	25...	1210	25	.240	.170	.350	.330	93.0

KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C); WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	189	---	142	185	183	127	149	131	138	164	173	176
2	189	197	143	190	183	134	149	126	136	162	165	176
3	187	---	---	193	---	126	155	128	137	166	170	189
4	---	205	160	192	190	131	160	117	133	---	173	184
5	186	199	165	187	187	134	149	---	134	161	172	184
6	---	201	162	182	185	134	---	106	141	164	174	189
7	191	198	187	190	186	127	143	107	141	166	170	---
8	189	203	168	188	186	125	---	120	141	169	172	184
9	---	201	---	190	181	125	146	126	144	157	170	184
10	172	---	---	179	174	---	---	129	147	163	173	184
11	196	204	167	96	146	127	125	130	147	173	172	184
12	---	---	164	101	---	123	132	127	147	170	173	184
13	198	---	164	119	97	128	133	124	148	165	149	184
14	---	195	164	---	112	127	---	123	153	160	172	180
15	---	203	---	---	126	127	133	116	155	156	173	---
16	---	203	174	146	129	---	126	117	155	168	172	181
17	186	190	174	154	122	129	122	---	153	177	---	184
18	190	193	174	156	118	130	123	118	159	177	173	182
19	193	190	176	164	127	141	130	123	158	173	174	185
20	195	---	179	162	137	146	135	115	158	175	164	182
21	---	183	---	164	137	144	137	110	160	175	151	186
22	---	181	174	164	137	155	140	109	161	175	171	189
23	195	183	177	166	137	---	133	117	162	160	171	190
24	171	187	179	171	134	149	130	117	162	175	---	185
25	---	196	---	156	134	149	137	117	162	173	171	183
26	188	187	179	166	132	144	140	118	164	177	179	186
27	---	191	187	---	132	146	134	120	161	167	181	---
28	197	189	182	172	119	137	136	120	161	177	176	185
29	182	186	187	174	---	144	131	123	162	177	176	188
30	197	---	---	---	---	149	131	136	164	135	177	189
31	195	---	185	174	---	151	---	137	---	177	173	---
MEAN	189	194	171	166	147	136	137	121	151	168	171	184
WTR YR 1979	MEAN		160	MAX	205	MIN		96				

TEMPERATURE, WATER (DEG. C); WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	18.0	14.5	12.0	10.0	10.0	3.5	3.0	4.5	4.0	7.5	7.5
2	21.0	17.5	13.5	12.0	10.0	9.5	3.5	3.0	4.5	4.0	8.0	7.5
3	20.0	17.5	14.5	12.0	9.5	9.0	4.0	3.5	4.5	4.0	8.0	8.0
4	19.0	17.0	12.5	12.0	9.5	9.0	5.0	4.0	5.0	4.5	8.0	8.0
5	19.0	16.0	15.0	12.5	9.0	8.5	5.0	5.0	5.5	4.5	8.5	8.0
6	16.5	16.0	16.0	12.5	8.5	7.5	5.0	5.0	6.0	5.5	8.5	8.5
7	19.0	16.0	15.5	12.5	7.5	6.5	5.5	5.0	6.5	6.0	9.0	9.0
8	19.5	16.0	15.0	12.5	7.0	6.5	6.0	5.5	7.0	6.5	9.0	9.0
9	20.0	16.0	13.0	12.0	6.5	6.5	6.0	6.0	7.0	7.0	9.0	9.0
10	20.0	16.5	12.0	11.0	7.5	6.5	7.0	6.0	7.5	7.0	9.5	9.0
11	20.5	16.5	---	---	8.0	7.5	6.0	6.0	7.5	7.0	9.5	9.5
12	21.0	16.5	---	---	8.0	7.5	6.0	6.0	7.0	7.0	9.5	9.5
13	22.0	17.0	---	---	7.5	7.5	6.0	6.0	7.0	6.5	9.5	9.5
14	20.0	17.5	---	---	7.5	7.0	6.0	6.0	6.5	6.0	10.0	9.5
15	20.0	17.0	---	---	7.5	7.0	6.0	6.0	7.0	6.5	10.0	9.5
16	18.0	16.5	---	---	7.0	6.5	6.5	6.0	7.0	6.5	10.0	9.5
17	20.5	16.5	---	---	6.5	6.5	6.5	6.0	7.0	6.5	10.0	9.5
18	18.0	16.5	---	---	6.5	6.0	6.0	6.0	7.0	6.5	9.5	9.5
19	16.5	15.5	---	---	6.0	5.0	6.0	5.5	7.0	6.5	10.0	9.5
20	17.5	15.0	---	---	5.5	5.0	6.0	5.5	7.0	7.0	10.0	9.5
21	18.0	15.5	---	---	5.5	5.0	6.0	5.5	7.0	6.5	10.0	10.0
22	18.5	15.0	---	---	6.0	5.5	6.0	6.0	7.0	7.0	10.0	10.0
23	18.5	15.0	---	---	6.5	5.5	6.0	5.5	7.0	6.5	10.5	10.0
24	17.0	15.0	---	---	6.5	6.5	5.5	5.5	7.0	6.5	10.5	10.0
25	16.5	14.5	---	---	6.5	6.0	5.5	5.0	7.5	7.0	11.0	10.5
26	14.5	14.0	---	---	6.5	6.0	5.0	4.5	7.5	7.5	11.0	11.0
27	16.5	14.5	8.5	8.5	6.0	6.0	5.0	4.5	8.0	7.5	11.0	11.0
28	15.0	14.0	9.5	8.5	6.0	5.5	4.5	4.5	8.0	7.5	11.0	10.5
29	14.0	13.0	10.5	9.5	5.5	4.5	4.5	4.0	---	---	11.0	11.0
30	15.5	12.5	10.5	10.0	4.5	3.5	4.5	4.0	---	---	11.0	10.5
31	15.0	12.0	---	---	3.5	3.0	4.5	4.0	---	---	11.0	10.5
MONTH	22.0	12.0	16.0	8.5	10.0	3.0	7.0	3.0	8.0	4.0	11.0	7.5

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.5	14.5	14.0	18.5	16.5	22.0	19.0	26.5	21.0	20.5	19.0
2	11.0	10.5	14.5	14.0	19.5	17.0	22.0	19.0	25.5	21.5	20.0	19.0
3	11.0	11.0	14.5	14.0	19.5	17.5	23.0	18.5	26.0	21.0	23.0	18.5
4	11.5	11.0	14.5	14.0	19.5	17.5	20.5	19.0	23.0	20.5	23.0	19.0
5	12.0	11.5	14.5	14.0	20.0	17.5	23.5	18.5	25.0	20.0	23.5	18.5
6	12.0	11.5	14.5	13.0	20.0	18.0	23.5	19.5	25.0	20.0	24.0	19.0
7	12.0	11.5	13.0	12.5	20.0	18.0	24.5	20.0	24.5	20.5	24.5	19.5
8	12.0	12.0	12.5	12.5	19.5	17.5	24.5	20.5	24.5	20.0	24.0	20.0
9	12.0	12.0	13.0	12.5	19.5	17.5	21.0	19.5	24.0	20.0	23.5	19.5
10	12.0	11.5	13.5	13.0	20.0	17.5	23.0	19.5	24.0	19.5	25.0	19.0
11	12.0	11.5	13.5	13.5	20.0	17.5	23.0	19.5	23.5	19.5	25.5	19.5
12	12.0	11.5	14.0	13.5	20.0	17.5	24.5	20.0	21.5	19.5	27.0	19.5
13	12.0	12.0	14.5	14.0	19.5	17.0	25.5	20.5	19.5	18.5	26.0	20.5
14	12.0	12.0	14.5	14.5	19.0	17.0	25.5	20.5	24.5	18.5	23.0	19.5
15	12.5	12.0	15.0	14.5	19.0	17.0	25.0	21.0	25.5	19.5	23.5	19.5
16	12.5	12.5	15.0	14.5	17.5	16.5	24.5	20.5	25.0	20.0	23.5	19.5
17	12.5	12.5	15.5	15.0	18.0	16.0	24.5	20.5	25.0	20.0	23.5	19.5
18	12.5	12.0	16.0	15.0	18.5	16.5	25.0	20.5	25.0	20.0	21.5	19.0
19	12.0	12.0	16.5	15.5	19.5	17.0	26.0	20.5	23.5	20.0	23.0	19.0
20	12.5	12.0	16.0	16.0	19.5	17.5	25.5	21.0	23.5	20.0	21.0	19.0
21	12.5	12.0	16.0	16.0	20.0	17.5	26.0	21.0	25.0	19.5	19.5	18.0
22	13.0	12.5	16.5	16.0	21.0	18.0	25.5	21.0	25.5	20.0	23.0	18.0
23	13.0	12.5	16.5	16.0	21.0	18.0	26.5	21.0	25.0	20.0	22.5	19.0
24	13.0	13.0	17.0	16.0	21.0	18.5	25.5	21.0	24.5	20.0	23.5	18.5
25	13.5	13.0	17.5	16.5	21.5	18.5	25.5	21.5	25.0	20.0	21.5	18.5
26	14.0	13.5	17.5	16.5	20.5	18.5	25.5	21.5	25.5	20.0	22.5	18.5
27	14.0	14.0	17.0	16.5	22.0	18.0	21.5	20.5	23.0	20.5	21.5	18.5
28	14.5	14.0	16.5	16.0	20.0	18.5	26.5	20.0	23.0	20.0	22.0	18.0
29	14.5	14.0	16.5	15.5	22.0	18.0	26.0	21.0	23.5	20.0	22.0	18.0
30	14.5	14.0	17.0	15.5	22.0	18.5	25.5	21.0	24.0	19.5	23.5	18.0
31	---	---	17.5	16.5	---	---	26.0	21.0	24.5	19.5	---	---
MONTH	14.5	10.5	17.5	12.5	22.0	16.0	26.5	18.5	26.5	18.5	27.0	18.0
YEAR	27.0	3.0										

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED.	SED.	SED.	SED.	SED.
						SUSP. SIEVE DIAM. % FINER THAN .062 MM	SUSP. SIEVE DIAM. % FINER THAN .125 MM	SUSP. SIEVE DIAM. % FINER THAN .250 MM	SUSP. SIEVE DIAM. % FINER THAN .500 MM	SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
OCT										
25...	1440	15.5	3850	5	52	69	--	--	--	--
NOV										
27...	1500	9.5	4860	6	82	44	--	--	--	--
DEC										
21...	1240	5.5	6020	6	98	48	--	--	--	--
JAN										
24...	1345	5.5	9340	25	639	32	--	--	--	--
FEB										
23...	1245	7.0	26700	115	8260	37	43	63	93	100
MAR										
26...	1500	10.5	16600	55	2500	37	44	65	91	100
APR										
24...	1425	12.5	16300	41	1820	42	--	--	--	--
MAY										
22...	1430	16.5	18800	42	2130	52	--	--	--	--
JUN										
28...	1400	19.0	5260	8	114	58	--	--	--	--
JUL										
26...	1310	22.0	3380	4	36	89	--	--	--	--
AUG										
30...	1300	20.5	3070	4	33	71	--	--	--	--
SEP										
25...	1130	18.0	3260	4	35	63	--	--	--	--

SMITH RIVER BASIN

11532000 SOUTH FORK SMITH RIVER NEAR CRESCENT CITY, CA

LOCATION.--Lat 41°47'28", long 124°01'29", unsurveyed, Del Norte County Hydrologic Unit 18010101, Six Rivers National Forest, on left bank 0.1 mi (0.2 km) downstream from Craigs Creek, 2.0 mi (3.2 km) upstream from mouth, and 9.2 mi (14.8 km) northeast of Crescent City.

DRAINAGE AREA.--291 mi² (754 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1911 to September 1913, August 1954 to September 1961, August 1977 to September 1979 (discontinued). Annual maximums, water years 1962-76.

GAGE.--Water-stage recorder. Altitude of gage is 150 ft (46 m), from topographic map. Sept. 9, 1911, to Sept. 30, 1913, nonrecording gage at site 1.8 mi (2.9 km) downstream at different datum. Aug. 17, 1954, to Sept. 30, 1961, at site 100 ft (30 m) upstream at same datum. Oct. 1, 1961, to Sept. 30, 1976, crest-stage gage only, at site 100 ft (30 m) upstream at same datum.

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

AVERAGE DISCHARGE.--11 years, 1,874 ft³/s (53.07 m³/s), 1,358,000 acre-ft/yr (1.67 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 162,000 ft³/s (4,590 m³/s) Dec. 22, 1964, gage-height, 43.8 ft (13.35 m), from floodmarks, site then in use, from rating curve extended above 42,000 ft³/s (1,190 m³/s) on basis of slope-area measurement at gage height 36.95 ft (11.262 m); minimum daily, 90 ft³/s (2.55 m³/s) Sept. 13-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,400 ft³/s (804 m³/s) Jan. 11 (0915 hrs), gage height, 23.17 ft (7.062 m), no other peak above base of 20,000 ft³/s (566 m³/s); minimum daily, 119 ft³/s (3.37 m³/s) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	162	3270	382	660	5120	985	1150	613	272	177	165
2	234	159	1370	371	628	3780	939	1060	585	270	175	265
3	227	159	926	364	605	4390	886	1010	558	262	172	265
4	222	159	1210	365	591	4690	857	1050	537	257	168	226
5	219	160	2280	349	589	4400	886	4340	519	257	167	175
6	212	159	1330	337	616	4360	1100	5900	501	250	166	165
7	212	156	970	328	744	4050	977	6330	483	245	161	159
8	207	153	787	382	963	3540	931	5130	463	241	158	163
9	204	148	688	477	1180	3170	1070	3980	447	272	158	167
10	205	146	646	4060	2280	2940	1260	3400	434	421	155	157
11	202	143	1270	20400	6190	2790	3340	3000	418	287	158	150
12	199	146	1360	9380	5150	2570	2720	2830	405	259	154	146
13	194	151	1030	5070	11900	2420	2880	2660	395	246	155	141
14	189	150	848	3900	6160	2320	2410	2420	388	240	155	137
15	185	149	747	3240	4160	2770	2660	2120	381	232	155	136
16	187	157	671	2550	3880	2550	4630	1850	388	224	155	134
17	186	166	757	2110	3920	2150	5000	1650	461	219	153	132
18	184	165	689	1790	4750	1910	3460	1490	421	212	152	130
19	178	738	622	1560	4080	1740	2740	1370	384	212	149	131
20	178	955	563	1390	3530	1600	2320	1260	359	207	152	128
21	180	447	538	1260	3700	1490	2040	1170	348	202	153	127
22	180	330	520	1150	3720	1380	1880	1100	337	202	153	129
23	176	281	522	1050	4150	1290	1750	1020	328	200	153	129
24	173	252	534	1020	3910	1230	1630	946	318	199	149	127
25	169	238	525	949	3570	1200	1470	886	308	193	146	124
26	169	224	500	868	4880	1180	1450	835	299	191	145	124
27	167	214	473	838	4240	1270	1480	791	294	186	145	122
28	166	253	452	792	8470	1240	1340	747	284	188	147	122
29	169	857	428	747	---	1160	1250	707	280	184	159	119
30	168	1780	406	720	---	1100	1190	674	276	181	158	119
31	165	---	391	687	---	1030	---	643	---	180	159	---
TOTAL	5947	9357	27323	68886	99216	76830	57531	63519	12212	7191	4862	4514
MEAN	192	312	881	2222	3543	2478	1918	2049	407	232	157	150
MAX	241	1780	3270	20400	11900	5120	5000	6330	613	421	177	265
MIN	165	143	391	328	589	1030	857	643	276	180	145	119
AC-FT	11800	18560	54200	136600	196800	152400	114100	126000	24220	14260	9640	8950
CAL YR 1978	TOTAL	498998	MEAN	1367	MAX	17700	MIN	143	AC-FT	989800		
WTR YR 1979	TOTAL	437388	MEAN	1198	MAX	20400	MIN	119	AC-FT	867600		

SMITH RIVER BASIN

11532000 SOUTH FORK SMITH RIVER NEAR CRESCENT CITY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	241	1	.65	162	2	.87	3270	32	409
2	234	1	.63	159	2	.86	1370	3	11
3	227	2	1.2	159	3	1.3	926	2	5.0
4	222	3	1.8	159	3	1.3	1210	13	63
5	219	3	1.8	160	3	1.3	2280	15	105
6	212	2	1.1	159	2	.86	1330	4	14
7	212	2	1.1	156	2	.84	970	2	5.2
8	207	2	1.1	153	2	.83	787	4	8.5
9	204	2	1.1	148	2	.80	688	6	11
10	205	3	1.7	146	2	.79	646	5	8.7
11	202	3	1.6	143	2	.77	1270	11	40
12	199	3	1.6	146	2	.79	1360	5	18
13	194	3	1.6	151	3	1.2	1030	2	5.6
14	189	3	1.5	150	3	1.2	848	5	11
15	185	3	1.5	149	2	.80	747	7	14
16	187	3	1.5	157	2	.85	671	5	9.1
17	186	3	1.5	166	3	1.3	757	4	8.2
18	184	3	1.5	165	2	.89	689	3	5.6
19	178	4	1.9	738	8	2.2	622	4	6.7
20	178	5	2.4	955	6	1.5	563	3	4.6
21	180	6	2.9	447	2	2.4	538	3	4.4
22	180	5	2.4	330	1	.89	520	2	2.8
23	176	4	1.9	281	1	.76	522	2	2.8
24	173	4	1.9	252	1	.68	534	2	2.9
25	169	3	1.4	238	1	.64	525	3	4.3
26	169	2	.91	224	1	.60	500	4	5.4
27	167	2	.90	214	1	.58	473	6	7.7
28	166	2	.90	253	1	.68	452	5	6.1
29	169	2	.91	857	11	.41	428	3	3.5
30	168	3	1.4	1780	31	2.68	406	4	4.4
31	165	3	1.3	---	---	---	391	6	6.3
TOTAL	5947	---	45.60	9357	---	370.78	27323	---	813.8
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	382	6	6.2	660	1	1.8	5120	34	470
2	371	5	5.0	628	1	1.7	3780	9	92
3	364	5	4.9	605	1	1.6	4390	8	95
4	365	4	3.9	591	1	1.6	4690	7	89
5	349	3	2.8	589	1	1.6	4400	6	71
6	337	2	1.8	616	1	1.7	4360	6	71
7	328	2	1.8	744	1	2.0	4050	7	77
8	382	2	2.1	963	1	2.6	3540	5	48
9	477	2	2.6	1180	2	6.4	3170	4	34
10	4060	95	2420	2280	25	298	2940	3	24
11	20400	693	41600	6190	68	1170	2790	2	15
12	9380	170	4310	5150	15	209	2570	2	14
13	5070	56	767	11900	163	5590	2420	2	13
14	3900	14	147	6160	45	748	2320	2	13
15	3240	9	79	4160	27	303	2770	4	30
16	2550	8	55	3880	7	73	2550	3	21
17	2110	7	40	3920	6	64	2150	3	17
18	1790	6	29	4750	13	167	1910	2	10
19	1560	5	21	4080	7	77	1740	2	9.4
20	1390	5	19	3530	5	48	1600	1	4.3
21	1260	4	14	3700	6	60	1490	1	4.0
22	1150	4	12	3720	5	50	1380	1	3.7
23	1050	2	5.7	4150	6	67	1290	1	3.5
24	1020	1	2.8	3910	5	53	1230	1	3.3
25	949	1	2.6	3570	3	29	1200	1	3.2
26	868	1	2.3	4880	18	237	1180	1	3.2
27	838	1	2.3	4240	14	160	1270	1	3.4
28	792	1	2.1	8470	79	1880	1240	1	3.3
29	747	1	2.0	---	---	---	1160	1	3.1
30	720	1	1.9	---	---	---	1100	1	3.0
31	687	1	1.9	---	---	---	1030	1	2.8
TOTAL	68886	---	49567.7	99216	---	11304.0	76830	---	1254.2

11532000 SOUTH FORK SMITH RIVER NEAR CRESCENT CITY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	985	1	2.7	1150	1	3.1	613	1	1.7
2	939	1	2.5	1060	1	2.9	585	1	1.6
3	886	1	2.4	1010	1	2.7	558	1	1.5
4	857	1	2.3	1050	4	11	537	1	1.4
5	886	1	2.4	4340	42	546	519	1	1.4
6	1100	2	5.9	5900	29	462	501	1	1.4
7	977	1	2.6	6330	21	359	483	1	1.3
8	931	1	2.5	5130	15	208	463	1	1.3
9	1070	1	2.9	3980	9	97	447	1	1.2
10	1260	2	6.8	3400	5	46	434	2	2.3
11	3340	14	131	3000	4	32	418	2	2.3
12	2720	3	22	2830	3	23	405	3	3.3
13	2880	2	16	2660	3	22	395	2	2.1
14	2410	2	13	2420	2	13	388	2	2.1
15	2660	2	14	2120	2	11	381	1	1.0
16	4630	25	359	1850	2	10	388	1	1.0
17	5000	25	337	1650	2	8.9	461	2	2.5
18	3460	10	93	1490	2	8.0	421	1	1.1
19	2740	3	22	1370	2	7.4	384	1	1.0
20	2320	2	13	1260	1	3.4	359	1	.97
21	2040	2	11	1170	1	3.2	348	1	.94
22	1880	2	10	1100	1	3.0	337	2	1.8
23	1750	2	9.5	1020	1	2.8	328	2	1.8
24	1630	1	4.4	946	1	2.6	318	1	.86
25	1470	1	4.0	886	1	2.4	308	1	.83
26	1450	1	3.9	835	1	2.3	299	2	1.6
27	1480	1	4.0	791	1	2.1	294	2	1.6
28	1340	1	3.6	747	1	2.0	284	2	1.5
29	1250	1	3.4	707	1	1.9	280	1	.76
30	1190	1	3.2	674	1	1.8	276	1	.75
31	---	---	---	643	1	1.7	---	---	---
TOTAL	57531	---	1110.0	63519	---	1902.2	12212	---	44.91
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	272	1	.73	177	1	.48	165	1	.45
2	270	1	.73	175	1	.47	265	2	1.4
3	262	2	1.4	172	1	.46	265	2	1.4
4	257	2	1.4	168	1	.45	226	1	.61
5	257	2	1.4	167	1	.45	175	1	.47
6	250	1	.68	166	1	.45	165	1	.45
7	245	1	.66	161	1	.43	159	1	.43
8	241	1	.65	158	1	.43	163	1	.44
9	272	2	1.5	158	1	.43	167	1	.45
10	421	2	2.3	155	1	.42	157	1	.42
11	287	2	1.5	158	1	.43	150	1	.41
12	259	1	.70	154	1	.42	146	1	.39
13	246	1	.66	155	1	.42	141	1	.38
14	240	1	.65	155	1	.42	137	1	.37
15	232	1	.63	155	1	.42	136	1	.37
16	224	1	.60	155	1	.42	134	1	.36
17	219	1	.59	153	1	.41	132	1	.36
18	212	1	.57	152	1	.41	130	1	.35
19	212	1	.57	149	1	.40	131	1	.35
20	207	1	.56	152	1	.41	128	1	.35
21	202	1	.55	153	1	.41	127	1	.34
22	202	1	.55	153	1	.41	129	1	.35
23	200	1	.54	153	1	.41	129	1	.35
24	199	1	.54	149	1	.40	127	1	.34
25	193	1	.52	146	1	.39	124	1	.33
26	191	1	.52	145	1	.39	124	1	.33
27	186	1	.50	145	1	.39	122	1	.33
28	188	1	.51	147	1	.40	122	1	.33
29	184	1	.50	159	2	.86	119	1	.32
30	181	1	.49	158	1	.43	119	1	.32
31	180	1	.49	159	1	.43	---	---	---
TOTAL	7191	---	24.19	4862	---	13.55	4514	---	13.55
YEAR	437388		66464.48						

SMITH RIVER BASIN

11532000 SOUTH FORK SMITH RIVER NEAR CRESCENT CITY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	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 11...	1155	10.0	25800	807	56200	18	24	33
FEB 13...	1355	9.0	12400	168	5630	--	--	--
MAY 05...	1225	10.0	5540	67	1000	--	--	--
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 11...	43	55	61	72	83	92	97	100
FEB 13...	--	--	62	71	83	94	100	--
MAY 05...	--	--	63	67	74	89	100	--

11532500 SMITH RIVER NEAR CRESCENT CITY, CA
(National stream-quality accounting network station)

LOCATION.--Lat 41°47'22", long 124°03'14", in SW¼SW¼ 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 (0.8 km) downstream from South Fork, and 8 mi (13 km) east of Crescent City.

DRAINAGE AREA.--609 mi² (1,577 km²).

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 (27.313 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--48 years, 3,812 ft³/s (108.0 m³/s), 2,762,000 acre-ft/yr (3.41 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228,000 ft³/s (6,460 m³/s) Dec. 22, 1964, gage height, 48.5 ft (14.78 m), from floodmarks, from rating curve extended above 110,000 ft³/s (3,120 m³/s) on basis of slope-area measurement at gage height 39.51 ft (12.043 m); minimum daily, 160 ft³/s (4.53 m³/s) Oct. 24, 25, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 80,300 ft³/s (2,270 m³/s) Jan. 11 (0915 hrs), gage height, 30.50 ft (9.296 m), no other peak above base of 36,000 ft³/s (1,020 m³/s); minimum daily, 242 ft³/s (6.85 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	471	325	8030	889	1370	11600	1840	2130	1220	587	354	325
2	458	322	3320	857	1300	8100	1760	2000	1170	583	350	603
3	445	320	2160	833	1250	11500	1690	1910	1130	563	342	614
4	433	320	3090	827	1220	11900	1620	1990	1080	558	334	499
5	424	325	5910	799	1210	10500	1640	9860	1050	557	338	376
6	421	318	3290	769	1290	9660	1950	14900	1020	545	333	340
7	416	311	2320	746	2120	8320	1760	16200	982	535	325	322
8	410	305	1860	829	3120	7030	1690	12300	950	522	317	345
9	405	301	1610	994	3550	6120	2010	9030	924	575	316	366
10	400	294	1480	10300	5880	5520	2510	7280	897	840	316	332
11	397	285	3060	54700	13900	5100	7070	6190	868	608	310	308
12	384	285	3290	20700	11200	4630	5640	5610	849	548	303	295
13	377	297	2410	10400	27100	4290	6240	5060	830	523	302	285
14	369	297	1980	7820	13600	4060	5020	4530	815	505	306	281
15	369	296	1720	6810	8580	4740	5490	3970	803	486	309	276
16	367	317	1550	5330	7910	4550	10400	3470	823	473	306	272
17	367	328	1730	4400	8390	3980	12100	3090	950	462	303	267
18	366	330	1610	3730	11300	3630	7760	2800	882	450	299	263
19	361	1490	1440	3230	9680	3390	5810	2570	808	439	300	261
20	355	2340	1310	2870	7790	3130	4790	2370	765	428	306	261
21	355	1030	1230	2590	7990	2900	4150	2200	740	418	306	261
22	357	683	1210	2340	8000	2680	3760	2070	720	411	307	261
23	349	555	1270	2140	9540	2480	3480	1960	699	405	301	261
24	344	489	1400	2060	8960	2330	3160	1830	682	398	293	257
25	341	445	1360	1950	7870	2240	2870	1720	666	389	289	252
26	339	416	1270	1780	11400	2190	2740	1630	647	383	288	252
27	339	383	1180	1720	9610	2330	2730	1540	630	380	283	252
28	335	499	1100	1630	20900	2280	2490	1470	612	383	301	248
29	337	1960	1020	1540	---	2140	2330	1400	603	376	331	244
30	339	4560	961	1480	---	2040	2210	1340	596	370	326	242
31	333	---	920	1420	---	1930	---	1280	---	358	322	---
TOTAL	11763	20426	66091	158483	226030	157290	118710	135700	25411	15058	9716	9421
MEAN	379	681	2132	5112	8073	5074	3957	4377	847	486	313	314
MAX	471	4560	8030	54700	27100	11900	12100	16200	1220	840	354	614
MIN	333	285	920	746	1210	1930	1620	1280	596	358	283	242
AC-FT	23330	40510	131100	314400	448300	312000	235500	269200	50400	29870	19270	18690
CAL YR 1978 TOTAL		1135543	MEAN 3111	MAX 50100	MIN 285	AC-FT 2252000						
WTR YR 1979 TOTAL		954099	MEAN 2614	MAX 54700	MIN 242	AC-FT 1892000						

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.

SPECIFIC CONDUCTANCE: Water year 1979.

WATER TEMPERATURES: Water years 1966 to current year.

SEDIMENT RECORDS: Water years 1955-56, November 1977 to September 1979 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1965 to current year.

SEDIMENT RECORDS: November 1977 to September 1979.

INSTRUMENTATION.--Temperature recorder since October 1965.

COOPERATION.--The letter "A" following a date indicates that chemical-quality records were furnished by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 24.5°C July 15, 1972, July 26, 27, 1973; minimum recorded, 0.5°C Dec. 10, 11, 1972.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 725 mg/L Dec. 14, 1977; minimum daily mean, 1 mg/L many days in 1978-79.

SEDIMENT DISCHARGE: Maximum daily, 159,000 tons (144,000 metric tons) Dec. 14, 1977; minimum daily, 0.65 ton (0.59 metric ton) Sept. 30, 1979.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 22.0°C July 19, 20, 23-25; minimum recorded, 2.0°C Dec. 31, Jan. 1.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 395 mg/L Jan. 11; minimum daily mean, 1 mg/L many days.

SEDIMENT DISCHARGE: Maximum daily, 64,800 tons (58,800 metric tons) Jan. 11; minimum daily, 0.65 ton (0.59 metric ton) Sept. 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, SATURATION (%)	COLIFORM, FECCAL, UM-MF (COLS./100 ML)	STREPTOCOCCI, FECCAL, KF AGAR (COLS. PER 100 ML)
OCT										
02...A	1500	497	131	7.9	16.5	.00	10.0	102	--	--
26...	0930	343	143	7.8	13.0	.40	10.3	--	K3	K1
NOV										
06...A	1705	327	153	7.7	10.0	.00	11.3	100	--	--
22...	1230	680	119	--	8.0	.40	11.9	--	K28	S
DEC										
05...A	1615	4940	117	7.5	7.5	2.0	12.7	106	--	--
20...	1300	1260	111	7.6	4.0	.30	13.6	--	K3	K1
JAN										
02...A	1610	852	125	7.4	4.0	.00	13.5	103	--	--
23...	1245	2040	95	6.8	5.0	.50	13.0	--	K1	K1
FEB										
13...A	1740	24900	73	7.3	9.5	22	12.6	110	--	--
22...	1330	7810	82	7.1	7.5	2.3	12.6	--	9	K4
MAR										
12...A	1525	4530	91	7.3	10.5	1.0	12.3	110	--	--
27...	1400	2250	89	6.6	10.0	.60	11.5	--	K5	K1
APR										
03...A	1725	1680	104	7.7	11.0	.00	11.7	106	--	--
25...	1230	2880	87	7.9	10.0	1.7	11.6	--	K1	K1
MAY										
07...A	1725	16300	88	7.2	10.0	3.0	12.4	110	--	--
23...	1330	2000	97	7.9	14.0	2.0	10.7	--	K1	14
JUN										
05...A	1730	1060	118	7.6	19.0	.00	9.6	103	--	--
26...	1700	650	117	7.6	17.5	.50	10.2	--	K3	K2
JUL										
09...A	1620	605	131	7.8	18.0	.00	9.3	98	--	--
25...	1700	454	132	8.0	22.0	.70	9.4	--	K3	K2
AUG										
07...A	1550	323	148	8.1	21.0	.00	9.4	105	--	--
29...	1500	330	136	8.1	19.0	1.7	9.9	--	10	9
SEP										
04...A	1540	453	142	8.1	19.0	1.0	9.8	105	--	--
26...	0930	250	145	7.7	17.0	.30	9.6	--	K3	10

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

SMITH RIVER BASIN

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11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT 02...	--	--	--	--	--	--	--	--	--	--
26...	66	2	8.2	11	2.6	8	.1	.3	64	5.1
NOV 06...	--	--	--	--	--	--	--	--	--	--
22...	60	2	5.8	11	2.2	7	.1	.3	58	4.6
DEC 05...	--	--	--	--	--	--	--	--	--	--
20...	58	4	4.9	11	2.0	7	.1	.2	54	5.2
JAN 02...	--	--	--	--	--	--	--	--	--	--
23...	51	8	5.1	9.4	2.0	8	.1	.3	43	3.3
FEB 13...	--	--	--	--	--	--	--	--	--	--
22...	42	5	4.5	7.5	1.5	7	.1	.2	37	3.6
MAR 12...	--	--	--	--	--	--	--	--	--	--
27...	47	2	5.9	7.8	1.8	8	.1	.2	45	2.6
APR 03...	--	--	--	--	--	--	--	--	--	--
25...	44	6	4.7	7.9	1.6	7	.1	.2	38	2.5
MAY 07...	--	--	--	--	--	--	--	--	--	--
23...	49	7	5.5	8.5	1.7	7	.1	.4	42	7.2
JUN 05...	--	--	--	--	--	--	--	--	--	--
26...	58	10	6.8	10	2.4	23	.1	.3	48	3.5
JUL 09...	--	--	--	--	--	--	--	--	--	--
25...	65	3	7.7	11	2.5	8	.1	.4	62	6.2
AUG 07...	--	--	--	--	--	--	--	--	--	--
29...	70	10	8.2	12	2.8	8	.1	.3	60	7.9
SEP 04...	--	--	--	--	--	--	--	--	--	--
26...	76	14	8.8	13	2.8	21	.1	.4	62	9.0

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, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 02...	--	--	--	--	--	--	--	--	--	--
26...	2.7	.0	12	81	80	.11	75.0	.01	--	.01
NOV 06...	--	--	--	--	--	--	--	--	--	--
22...	2.6	.0	12	60	73	.08	110	.01	--	.02
DEC 05...	--	--	--	--	--	--	--	--	--	--
20...	2.5	.0	13	68	71	.09	231	.01	--	.00
JAN 02...	--	--	--	--	--	--	--	--	--	--
23...	2.2	.0	14	51	62	.07	281	.02	--	.00
FEB 13...	--	--	--	--	--	--	--	--	--	--
22...	2.0	.0	12	54	54	.07	1140	.02	--	.02
MAR 12...	--	--	--	--	--	--	--	--	--	--
27...	1.7	.0	11	59	58	.08	358	.01	--	.01
APR 03...	--	--	--	--	--	--	--	--	--	--
25...	1.5	.0	13	46	54	.06	358	.05	--	.01
MAY 07...	--	--	--	--	--	--	--	--	--	--
23...	1.8	.1	12	59	62	.08	319	.00	--	.04
JUN 05...	--	--	--	--	--	--	--	--	--	--
26...	2.3	.0	15	70	69	.10	123	1.8	--	.00
JUL 09...	--	--	--	--	--	--	--	--	--	--
25...	2.1	.0	15	81	82	.11	99.3	.00	--	.00
AUG 07...	--	--	--	--	--	--	--	--	--	--
29...	2.7	.0	13	82	83	.11	73.1	.01	--	.01
SEP 04...	--	--	--	--	--	--	--	--	--	--
26...	1.8	.0	13	146	86	.20	98.6	.01	.01	.00

SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1979

DATE	NITRO- GEN, ORGANIC TOTAL (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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT									
02...	--	--	--	--	--	--	--	--	--
26...	.14	.15	.15	.16	.01	.02	.6	--	--
NOV									
06...	--	--	--	--	--	--	--	--	--
22...	.10	.12	.11	.13	.02	.01	1.3	--	--
DEC									
05...	--	--	--	--	--	--	--	--	--
20...	.11	.11	.10	.12	.02	.03	--	1.1	.1
JAN									
02...	--	--	--	--	--	--	--	--	--
23...	.18	.18	.13	.20	.01	.05	.6	--	--
FEB									
13...	--	--	--	--	--	--	--	--	--
22...	.16	.18	.04	.20	.01	.02	.8	--	--
MAR									
12...	--	--	--	--	--	--	--	--	--
27...	.09	.10	.05	.11	.01	.01	--	.8	.2
APR									
03...	--	--	--	--	--	--	--	--	--
25...	.02	.03	.05	.08	.03	.01	.4	--	--
MAY									
07...	--	--	--	--	--	--	--	--	--
23...	.00	.03	.10	.03	.01	.01	1.0	--	--
JUN									
05...	--	--	--	--	--	--	--	--	--
26...	1.5	1.5	.01	3.3	.01	.01	--	3.8	.1
JUL									
09...	--	--	--	--	--	--	--	--	--
25...	.08	.08	.08	.08	.01	.01	1.6	--	--
AUG									
07...	--	--	--	--	--	--	--	--	--
29...	.58	.59	.47	.60	.04	.00	1.5	--	--
SEP									
04...	--	--	--	--	--	--	--	--	--
26...	.21	.21	.26	.22	.00	.00	--	1.7	.6

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
DEC									
20...	1300	0	0	0	8	1	1	20	0
MAR									
27...	1400	0	0	0	0	0	0	10	10
JUN									
26...	1700	3	2	0	20	8	<1	10	0
SEP									
26...	0930	1	1	0	10	0	<1	10	10

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
DEC									
20...	2	<3	3	1	30	10	18	--	0
MAR									
27...	0	0	0	0	40	0	10	1	10
JUN									
26...	0	<3	5	0	10	<0	12	0	0
SEP									
26...	0	<3	19	0	30	<10	71	0	0

SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	MANGANESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC 20...	<1	.0	.0	0	0	0	0	10	4
MAR 27...	0	.0	.0	0	0	0	0	10	10
JUN 26...	3	.1	.1	0	0	0	0	20	3
SEP 26...	<1	.1	.0	0	0	0	0	70	<3

DATE	TIME	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	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 (AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM, DIS-SOLVED, EXTRACTION (UG/L)
DEC 20...	1300	--	--	1.1	<.4	.6	<.4	.5	<.4	.02	<.01
JUN 26...	1700	<.5	<.3	<.7	<.4	<.4	<.4	<.4	<.4	.04	<.01

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	NOV 22,78 1115	MAR 27,79 1400	MAY 23,79 1330	JUN 26,79 1700				
TOTAL CELLS/ML	69	15	90	26				
DIVERSITY: DIVISION	0.0	0.9	0.0	0.0				
..CLASS	0.0	0.9	0.0	0.0				
..ORDER	0.0	1.6	0.0	0.0				
...FAMILY	2.3	1.6	0.0	0.0				
....GENUS	2.3	1.6	0.0	0.0				
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....COELASTRACEAE	--	--	--	--	--	--	--	--
....COELASTRUM								
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	--	5# 33	--	--	--	--	--
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	--	5# 33	90#100	--	--	--	--
...PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	14# 20	--	--	--	--	--	--	--
....RHOICOSPHENIA	--	--	5# 33	--	--	--	--	--
...CYMBELLACEAE								
....CYMBELLA	--	--	--	--	--	--	--	--
....EPISTEMIA	14# 20	--	--	--	--	--	--	--
...DIATOMACEAE								
....DIATOMA	--	--	--	--	--	--	--	--
...FRAGILARIACEAE								
....SYNEDRA	14# 20	--	--	--	--	--	--	--
...GOMPHONEMATACEAE								
....GOMPHONEMA	14# 20	--	--	--	--	--	--	--
...NAVICULACEAE								
....NAVICULA	14# 20	--	--	--	--	--	--	--
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
....ANACYSTIS	--	--	--	--	--	--	26#100	--

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 ° - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PHYTOPLANKTON

DATE TIME	JUL 25,79 1700	AUG 29,79 1500	SEP 26,79 0930			
TOTAL CELLS/ML	26	100	100			
DIVERSITY: DIVISION	0.0	0.0	0.0			
..CLASS	0.0	0.0	0.0			
..ORDER	0.0	0.0	0.0			
...FAMILY	0.0	2.1	0.0			
....GENUS	0.0	2.5	0.0			
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...COELASTRACEAE						
....COELASTRUM	--	--	--	--	100#100	
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	--	--	--	--	--
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCEAE						
...CYCLOTELLA	--	--	--	--	--	--
..PENNALES						
...ACHNANTHACEAE						
....COCCONEIS	26#100		10	10	--	--
....RHOICOSPHENIA	--	--	10	10	--	--
...CYMBELLACEAE						
....CYMBELLA	--	--	20#	20	--	--
....EPITHEMIA	--	--	10	10	--	--
...DIATOMACEAE						
....DIATOMA	--	--	10	10	--	--
...FRAGILARIACEAE						
....SYNEDRA	--	--	35#	35	--	--
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	--	--	--	--	--
...NAVICULACEAE						
....NAVICULA	--	--	5	5	--	--
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	--	--	--	--	--	--

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 ° - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

DATE	TIME	LENGTH OF EXPO- SURE (DAYS)	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI- PHYTON CHKUMO- GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS)
OCT							
26...	0930	34	1.57	1.10	5.09	.000	--
NOV							
22...	1230	27	1.26	.866	3.92	.000	--
APR							
25...	1230	29	3.47	2.91	2.66	.360	211
JUL							
25...	1700	29	1.26	.709	1.86	.430	296
SEP							
26...	1130	28	.470	.310	.350	.150	457

SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	76	---	---	---	---	---	---	---	---	---
2		---	103	---	---	80	---	---	---	---	---	---
3		---	---	109	96	---	75	---	---	---	---	---
4		---	105	---	---	---	---	---	---	117	---	---
5		---	94	---	98	75	---	83	---	---	---	---
6		---	---	110	---	---	---	---	104	---	---	---
7		---	104	---	---	75	---	79	---	---	---	---
8		---	---	---	94	---	---	---	---	---	---	---
9		---	98	103	---	---	---	---	---	---	---	---
10		---	---	---	90	---	---	87	---	---	---	139
11		---	100	63	---	---	84	---	---	---	---	---
12		---	---	74	78	80	---	---	110	---	---	---
13		---	102	82	72	---	---	---	---	121	---	---
14		---	---	82	77	---	84	81	---	---	---	---
15		---	101	85	---	75	---	---	---	---	---	---
16		---	---	---	77	---	---	---	---	---	132	---
17		---	---	91	---	---	73	---	---	---	---	138
18		127	105	---	---	---	---	---	107	---	---	---
19		117	---	92	---	---	---	---	---	---	---	---
20		104	113	---	---	---	---	---	---	---	---	---
21		118	---	---	---	90	---	---	---	---	---	---
22		---	109	93	---	---	---	---	---	---	---	142
23		---	---	---	---	---	89	---	---	---	---	---
24		122	---	93	---	---	---	96	---	131	---	---
25		---	---	---	---	---	---	---	---	---	---	---
26		---	---	---	83	---	---	---	---	---	---	147
27		124	110	91	---	92	---	---	---	---	---	---
28		120	---	---	71	---	---	---	---	---	---	---
29		110	---	---	---	---	---	---	---	---	---	---
30		105	---	---	---	93	82	---	---	---	---	146
31		---	110	93	---	---	---	---	---	---	---	---
MEAN		116	104	90	84	83	85	85	107	123	132	142
WTR YR 1979	MEAN		99	MAX	147	MIN	63					

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.5	10.0	9.5	9.5	9.0	2.5	2.0	4.5	4.0	8.0	7.0
2	16.0	15.0	9.5	9.0	9.0	8.0	3.5	2.5	4.5	3.5	8.5	7.0
3	15.5	15.0	9.5	9.0	8.0	7.0	4.5	3.5	4.5	3.5	9.0	8.5
4	15.5	15.0	10.5	9.5	9.5	7.5	5.5	4.5	6.0	5.0	9.0	8.5
5	15.5	14.5	10.5	10.0	9.0	7.0	5.5	5.0	6.0	6.0	9.5	9.0
6	15.5	15.0	10.5	9.5	7.0	6.0	5.5	5.0	7.0	6.0	10.0	8.5
7	15.0	14.0	10.0	9.5	6.0	5.5	5.5	5.0	8.0	7.5	10.0	8.5
8	14.5	13.5	10.0	9.5	5.5	5.0	6.5	5.5	8.0	7.5	9.5	8.0
9	15.0	14.5	10.0	9.0	6.5	5.5	7.0	6.5	8.5	7.5	10.0	8.0
10	15.0	14.5	9.0	7.5	8.0	6.5	8.5	7.0	8.5	8.5	10.0	8.5
11	15.0	14.5	7.5	6.0	9.0	8.0	9.5	8.5	8.5	8.5	10.0	9.0
12	15.0	14.5	6.0	5.5	8.0	7.0	9.0	8.5	9.0	8.5	10.0	8.5
13	15.5	14.5	5.5	5.0	7.0	6.5	8.5	7.5	9.0	8.0	10.0	8.5
14	15.5	15.0	5.0	4.5	7.0	6.0	8.0	8.0	8.5	7.5	10.0	9.5
15	15.5	15.0	5.0	4.5	7.0	6.5	8.0	7.5	7.5	7.0	9.5	8.5
16	15.5	15.0	6.5	5.0	6.5	5.5	7.5	6.5	7.5	7.0	8.5	7.5
17	15.0	14.5	8.0	6.5	6.0	6.0	6.5	6.0	8.0	7.5	8.5	7.5
18	15.0	14.5	8.5	8.0	6.0	5.0	6.0	5.5	8.5	8.0	9.0	8.0
19	15.0	14.5	9.5	9.0	5.0	4.5	6.0	5.5	8.5	7.5	9.5	7.5
20	15.0	14.5	9.5	9.0	5.0	4.0	6.5	6.0	8.5	8.0	9.5	8.0
21	14.5	14.0	9.0	8.5	6.0	5.0	6.5	6.5	8.5	7.5	9.5	8.5
22	14.0	13.5	8.5	8.0	6.5	5.5	6.5	5.5	8.0	7.0	9.5	8.5
23	13.5	12.5	8.0	7.5	7.0	6.5	5.5	5.0	7.5	7.0	10.0	8.0
24	13.5	13.0	7.5	7.0	7.0	6.5	6.0	5.5	8.5	7.5	10.0	8.5
25	13.5	13.0	7.0	6.5	6.5	6.0	6.0	5.0	8.5	8.5	10.5	9.5
26	13.0	13.0	6.5	6.5	6.0	5.5	5.0	4.0	8.5	8.0	10.0	9.5
27	13.0	13.0	6.5	6.0	5.5	5.5	5.0	5.0	8.5	7.5	9.5	9.0
28	13.0	12.0	8.0	6.5	5.5	5.5	5.0	4.5	8.5	7.5	10.5	9.0
29	12.0	11.5	9.5	8.5	4.5	3.0	4.5	3.5	---	---	10.0	9.0
30	12.0	10.5	10.0	9.5	3.0	2.5	4.5	4.0	---	---	9.5	8.5
31	10.5	10.0	---	---	2.5	2.0	4.5	4.0	---	---	9.5	8.0
MONTH	16.0	10.0	10.5	4.5	9.5	2.0	9.5	2.0	9.0	3.5	10.5	7.0

SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.5	8.0	13.0	11.5	17.5	15.0	18.0	17.0	21.5	20.5	18.5	18.0
2	9.5	8.5	13.5	11.5	18.5	16.0	18.0	16.5	21.5	20.5	18.0	17.5
3	10.0	8.5	13.5	12.0	18.5	16.5	18.0	16.5	21.5	20.5	18.5	17.0
4	11.0	9.0	12.0	11.5	18.5	16.5	18.0	17.0	21.0	19.5	18.5	17.5
5	11.0	10.0	11.5	9.0	18.0	16.5	17.5	16.0	20.5	19.0	18.5	17.5
6	10.5	10.0	10.5	9.0	17.5	16.0	18.0	16.5	20.5	19.5	18.5	17.0
7	11.5	9.5	12.0	9.5	17.0	15.0	18.5	17.0	20.5	20.0	19.0	17.5
8	11.0	10.0	12.5	10.0	17.5	15.0	19.0	17.5	20.5	19.5	19.5	19.0
9	10.0	9.5	12.0	10.5	17.5	16.0	19.0	17.0	20.5	19.5	19.0	18.5
10	9.5	8.5	11.5	10.5	18.0	16.0	17.5	16.0	20.5	19.5	18.5	18.0
11	9.0	8.5	10.5	10.0	17.5	16.0	18.0	16.5	20.0	19.0	19.0	18.0
12	9.5	8.5	---	---	17.5	15.5	19.0	17.0	20.0	19.0	19.5	18.0
13	10.0	9.0	---	---	16.5	15.0	20.0	18.0	19.5	18.5	20.0	18.5
14	9.5	8.5	---	---	16.0	14.5	20.5	19.0	19.0	17.5	19.0	18.5
15	10.0	9.0	---	---	16.0	14.5	21.0	19.5	19.5	18.5	19.0	18.5
16	10.0	9.0	---	---	15.5	13.5	21.5	20.5	20.0	18.5	19.5	18.5
17	9.5	8.5	---	---	13.5	12.5	21.5	20.5	20.0	18.5	19.5	18.5
18	9.5	7.5	---	---	15.5	12.5	21.5	20.5	19.5	18.5	19.0	18.5
19	10.0	7.5	---	---	16.5	14.5	22.0	20.5	20.0	19.5	19.0	18.0
20	10.5	8.0	---	---	16.5	15.0	22.0	21.0	19.5	18.5	18.5	18.0
21	10.5	9.0	---	---	17.0	15.0	21.5	21.0	19.0	18.5	18.0	18.0
22	11.0	9.5	---	---	17.0	15.0	21.5	20.5	19.5	18.5	18.5	17.5
23	10.5	9.5	14.5	14.0	18.0	16.0	22.0	20.5	20.0	18.5	19.0	18.0
24	11.5	9.5	16.0	13.5	18.0	16.5	22.0	21.0	19.5	18.5	18.5	17.5
25	12.5	9.5	17.0	14.5	18.0	16.5	22.0	21.0	19.5	18.5	18.5	17.5
26	12.0	11.0	16.5	15.0	18.0	16.5	21.5	20.0	20.5	19.0	18.0	17.0
27	12.5	11.0	15.5	14.0	18.5	17.5	20.5	19.0	20.0	19.5	18.0	17.5
28	12.5	11.0	15.0	13.0	18.5	17.5	20.5	18.5	19.5	19.0	18.0	17.0
29	12.5	11.5	15.0	12.5	18.5	17.0	21.0	19.5	19.0	18.5	17.5	16.5
30	12.5	12.0	15.5	13.0	18.5	17.0	21.0	20.0	19.0	18.5	17.5	16.5
31	---	---	16.5	14.5	---	---	21.0	20.5	19.0	17.5	---	---
MONTH	12.5	7.5	17.0	9.0	18.5	12.5	22.0	16.0	21.5	17.5	20.0	16.5
YEAR	22.0	2.0										

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	471	1	1.3	325	1	.88	8030	26	809
2	458	1	1.2	322	1	.87	3320	4	36
3	445	1	1.2	320	1	.86	2160	3	17
4	433	2	2.3	320	1	.86	3090	9	124
5	424	1	1.1	325	1	.88	5910	9	163
6	421	1	1.1	318	1	.86	3290	3	27
7	416	1	1.1	311	2	1.7	2320	3	19
8	410	1	1.1	305	2	1.6	1860	2	10
9	405	1	1.1	301	1	.81	1610	2	8.7
10	400	1	1.1	294	1	.79	1480	2	8.0
11	397	2	2.1	285	1	.77	3060	5	45
12	384	1	1.0	285	2	1.5	3290	3	27
13	377	1	1.0	297	1	.80	2410	2	13
14	369	1	1.0	297	1	.80	1980	2	11
15	369	1	1.0	296	1	.80	1720	2	9.3
16	367	1	.99	317	1	.86	1550	2	8.4
17	367	1	.99	328	1	.89	1730	3	14
18	366	2	2.0	330	2	1.8	1610	4	17
19	361	3	2.9	1490	12	71	1440	4	16
20	355	2	1.9	2340	6	38	1310	6	21
21	355	2	1.9	1030	1	2.8	1230	4	13
22	357	1	.96	683	2	3.7	1210	1	3.3
23	349	1	.94	555	3	4.5	1270	1	3.4
24	344	1	.93	489	3	4.0	1400	1	3.8
25	341	1	.92	445	2	2.4	1360	1	3.7
26	339	1	.92	416	2	2.2	1270	1	3.4
27	339	1	.92	383	2	2.1	1180	1	3.2
28	335	1	.90	499	4	5.4	1100	1	3.0
29	337	1	.91	1960	11	86	1020	1	2.8
30	339	1	.92	4560	21	489	961	1	2.6
31	333	1	.90	---	---	---	920	1	2.5
TOTAL	11763	---	38.60	20426	---	729.43	56091	---	1448.1

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	889	1	2.4	1370	1	3.7	11600	14	438
2	857	1	2.3	1300	1	3.5	8100	6	131
3	833	1	2.2	1250	1	3.4	11500	19	625
4	827	1	2.2	1220	1	3.3	11900	5	161
5	799	1	2.2	1210	1	3.3	10500	4	113
6	769	1	2.1	1290	1	3.5	9660	3	78
7	746	1	2.0	2120	1	5.7	8320	6	135
8	829	1	2.2	3120	1	8.4	7030	3	57
9	994	1	2.7	3550	1	9.6	6120	2	33
10	10300	72	5200	5880	6	168	5520	2	30
11	54700	395	64800	13900	34	1330	5100	2	28
12	20700	84	4690	11200	25	756	4630	2	25
13	10400	20	562	27100	111	8960	4290	1	12
14	7820	7	148	13600	20	734	4060	1	11
15	6810	5	92	8580	11	255	4740	3	38
16	5330	4	58	7910	6	128	4550	2	25
17	4400	2	24	8390	5	113	3980	1	11
18	3730	2	20	11300	19	608	3630	1	9.8
19	3230	2	17	9680	4	105	3390	1	9.2
20	2870	2	15	7790	2	42	3130	1	8.5
21	2590	1	7.0	7990	3	65	2900	1	7.8
22	2340	1	6.3	8000	4	103	2680	1	7.2
23	2140	4	23	9540	13	328	2480	1	6.7
24	2060	1	5.6	8960	4	97	2330	1	6.3
25	1950	1	5.3	7870	2	42	2240	1	6.0
26	1780	1	4.8	11400	14	460	2190	1	5.9
27	1720	1	4.6	9610	8	261	2330	1	6.3
28	1630	1	4.4	20900	47	2850	2280	1	6.2
29	1540	1	4.2	---	---	---	2140	1	5.8
30	1480	1	4.0	---	---	---	2040	2	11
31	1420	1	3.8	---	---	---	1930	2	10
TOTAL	158483	---	75719.3	226030	---	17449.4	157290	---	2057.7
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	1840	1	5.0	2130	1	5.8	1220	1	3.3
2	1760	1	4.8	2000	1	5.4	1170	1	3.2
3	1690	1	4.6	1910	1	5.2	1130	1	3.1
4	1620	1	4.4	1990	3	16	1080	1	2.9
5	1640	1	4.4	9860	24	696	1050	1	2.8
6	1950	1	5.3	14900	28	1130	1020	1	2.8
7	1760	1	4.8	16200	23	1010	982	1	2.7
8	1690	1	4.6	12300	15	498	950	1	2.6
9	2010	1	5.4	9030	9	219	924	1	2.5
10	2510	4	27	7280	4	79	897	1	2.4
11	7070	17	319	6190	3	50	868	1	2.3
12	5640	5	76	5610	2	30	849	1	2.3
13	6240	8	135	5060	2	27	830	1	2.2
14	5020	3	41	4530	2	24	815	1	2.2
15	5490	3	44	3970	2	21	803	1	2.2
16	10400	24	794	3470	1	9.4	823	1	2.2
17	12100	18	588	3090	1	8.3	950	1	2.6
18	7760	6	126	2800	1	7.6	882	1	2.4
19	5810	3	47	2570	1	6.9	808	1	2.2
20	4790	2	26	2370	1	6.4	765	1	2.1
21	4150	2	22	2200	1	5.9	740	1	2.0
22	3760	2	20	2070	1	5.6	720	1	1.9
23	3480	2	19	1960	2	11	699	1	1.9
24	3160	2	17	1830	2	9.9	682	1	1.8
25	2870	2	15	1720	2	9.3	666	1	1.8
26	2740	2	15	1630	1	4.4	647	2	3.5
27	2730	2	15	1540	1	4.2	630	1	1.7
28	2490	1	6.7	1470	1	4.0	612	1	1.7
29	2330	1	6.3	1400	1	3.8	603	1	1.6
30	2210	1	6.0	1340	1	3.6	596	1	1.6
31	---	---	---	1280	1	3.5	---	---	---
TOTAL	118710	---	2408.3	135700	---	3920.2	25411	---	70.5

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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	587	1	1.6	354	1	.96	325	1	.88
2	583	1	1.6	350	1	.95	603	2	1.3
3	563	1	1.5	342	1	.92	614	2	1.3
4	558	1	1.5	334	1	.90	499	1	1.3
5	557	1	1.5	338	1	.91	376	1	1.0
6	545	1	1.5	333	1	.90	340	1	.92
7	535	1	1.4	325	1	.88	322	1	.87
8	522	1	1.4	317	1	.86	345	1	.93
9	575	1	1.6	316	1	.85	366	1	.99
10	840	2	4.5	316	1	.85	332	1	.90
11	608	2	3.3	310	1	.84	308	1	.83
12	548	1	1.5	303	1	.82	295	1	.80
13	523	1	1.4	302	1	.82	285	1	.77
14	505	1	1.4	306	1	.83	281	1	.76
15	486	1	1.3	309	1	.83	276	1	.75
16	473	1	1.3	306	1	.83	272	1	.73
17	462	1	1.2	303	1	.82	267	1	.72
18	450	1	1.2	299	1	.81	263	1	.71
19	439	1	1.2	300	1	.81	261	1	.70
20	428	1	1.2	306	1	.83	261	1	.70
21	418	1	1.1	306	1	.83	261	1	.70
22	411	1	1.1	307	1	.83	261	1	.70
23	405	1	1.1	301	1	.81	261	1	.70
24	398	1	1.1	293	1	.79	257	1	.69
25	389	1	1.1	289	1	.78	252	1	.68
26	383	1	1.0	288	1	.78	252	1	.68
27	380	1	1.0	283	1	.76	252	1	.68
28	383	1	1.0	301	2	1.6	248	1	.67
29	376	1	1.0	331	3	2.7	244	1	.66
30	370	1	1.0	326	2	1.8	242	1	.65
31	358	1	.97	322	1	.87	---	---	---
TOTAL	15058	---	44.57	9716	---	29.77	9421	---	28.67
YEAR	954099		103944.5						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPERATURE, WATER (DEG C)	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
NOV 22...	1250	8.0	661	3	5.5	40	--	--	--	--
JAN 23...	1315	6.0	2120	4	23	44	--	--	--	--
FEB 13...	1435	9.0	28100	92	6730	67	78	91	98	100
FEB 22...	1655	7.5	8390	6	130	69	--	--	--	--
APR 25...	1300	11.5	2820	2	15	67	--	--	--	--
JUN 26...	1600	17.5	640	2	3.5	65	--	--	--	--
AUG 29...	1235	19.0	338	3	2.7	79	--	--	--	--

11532620 MILL CREEK NEAR CRESCENT CITY, CA

LOCATION.--Lat 41°44'32", long 124°06'06", in NE¼NE¼ sec.31, T.16 N., R.1 E., Del Norte County, Hydrologic Unit 18010101, Redwood National Park, on left bank 200 ft (61 m) downstream from small left-bank tributary, 0.9 mi (1.4 km) downstream from confluence of West Branch and East Fork Mill Creeks, and 4.9 mi (7.9 km) east of Crescent City.

DRAINAGE AREA.--28.6 mi² (74.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1974 to current year.

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

REMARKS.--Records good. Minor regulation and diversion above station for lumber mill and park campground use.

AVERAGE DISCHARGE.--5 years, 120 ft³/s (3.398 m³/s), 86,940 acre-ft/yr (107 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,460 ft³/s (126 m³/s) Mar. 18, 1975, gage height, 8.51 ft (2.594 m); minimum daily, 2.5 ft³/s (0.071 m³/s) Oct. 2-5, 23, 24, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,480 ft³/s (70.2 m³/s) Jan. 11 (1545 hrs), gage height, 5.97 ft (1.820 m), no other peaks above base of 2,000 ft³/s (57 m³/s); minimum daily, 4.8 ft³/s (0.14 m³/s) Aug. 9-11, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	12	328	39	57	550	64	66	36	14	6.3	8.3
2	17	11	141	38	55	380	61	60	35	14	6.3	23
3	16	11	96	37	52	400	59	57	33	13	6.0	32
4	15	11	141	36	50	446	56	71	32	13	5.7	20
5	15	11	202	35	49	357	53	380	31	13	5.7	14
6	15	11	132	34	49	279	53	420	30	12	5.6	12
7	14	11	103	33	52	226	51	593	29	11	5.1	9.8
8	14	10	82	40	59	190	51	518	27	11	5.1	12
9	13	9.9	71	43	77	160	59	373	26	20	4.8	12
10	13	9.6	66	332	210	139	77	279	25	26	4.8	10
11	13	9.5	150	1890	633	123	303	216	24	17	4.8	9.7
12	12	9.7	134	863	555	111	213	179	24	14	5.4	8.4
13	12	10	109	437	1310	101	235	150	23	13	5.9	8.1
14	11	10	90	380	659	92	196	131	22	12	6.2	8.1
15	11	10	78	357	442	119	193	118	22	11	6.3	7.6
16	11	10	75	265	400	121	504	106	24	10	6.0	6.6
17	11	11	132	210	380	107	638	95	27	10	6.0	6.2
18	11	15	115	171	468	101	392	85	23	10	5.7	5.7
19	11	38	99	143	416	94	272	77	21	9.6	6.4	5.7
20	12	80	85	123	350	86	207	71	20	9.5	7.0	5.7
21	12	51	75	111	369	80	168	66	19	8.8	6.3	5.7
22	12	35	69	101	400	77	143	63	18	8.8	6.3	5.8
23	12	29	64	90	603	69	127	59	18	8.4	5.9	6.0
24	12	24	60	86	584	66	111	56	17	8.1	5.1	6.0
25	12	21	56	86	455	63	99	52	17	7.6	5.1	6.0
26	12	20	52	75	574	61	90	49	17	7.0	5.4	6.0
27	12	19	50	73	527	71	85	47	17	7.0	5.7	5.7
28	12	43	46	73	967	77	75	44	15	7.2	5.4	5.4
29	12	115	44	67	---	75	69	42	15	7.3	5.4	5.1
30	12	258	42	64	---	73	66	39	15	7.2	5.5	4.8
31	12	---	41	61	---	69	---	38	---	6.3	5.7	---
TOTAL	397	925.7	3028	6393	10802	4963	4770	4600	702	346.8	176.9	281.4
MEAN	12.8	30.9	97.7	206	386	160	159	148	23.4	11.2	5.71	9.38
MAX	18	258	328	1890	1310	550	638	593	36	26	7.0	32
MIN	11	9.5	41	33	49	61	51	38	15	6.3	4.8	4.8
AC-FT	787	1840	6010	12680	21430	9840	9460	9120	1390	688	351	558
CAL YR 1978	TOTAL	48323.1	MEAN 132	MAX 2500	MIN 3.0	AC-FT 95850						
WTR YR 1979	TOTAL	37385.8	MEAN 102	MAX 1890	MIN 4.8	AC-FT 74150						

SMITH RIVER BASIN

11532620 MILL CREEK NEAR CRESCENT CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

CHEMICAL ANALYSES: Water years 1974-75, 1977.

WATER TEMPERATURES: Water years 1974 to current year.

SEDIMENT RECORDS: Water years 1974 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: February 1974 to current year.

INSTRUMENTATION.--Temperature recorder since February 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 23.5°C July 25, 1974; minimum recorded, 3.0°C Dec. 31, 1978.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 21.0°C July 25; minimum recorded, 3.0°C Dec. 31.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	10.5	9.5	4.5	3.5	7.0	5.5	10.0	8.5
2	---	---	---	---	9.5	8.5	5.5	4.0	6.0	5.0	10.0	9.0
3	---	---	---	---	9.0	7.5	6.0	4.5	7.0	5.0	10.0	9.5
4	---	---	---	---	10.0	9.0	7.5	6.0	8.0	6.5	11.0	10.0
5	---	---	---	---	9.0	8.0	6.5	5.5	8.0	7.5	11.5	10.5
6	---	---	---	---	8.5	7.0	6.0	5.5	9.0	8.0	12.0	10.0
7	---	---	---	---	7.0	6.5	7.0	6.0	9.5	8.5	12.5	10.5
8	---	---	10.5	10.0	7.5	6.5	8.0	7.0	9.0	8.5	12.0	9.5
9	---	---	10.0	8.5	8.5	7.0	8.5	7.5	10.0	9.0	12.5	9.5
10	---	---	8.5	7.0	9.5	8.0	9.5	8.5	9.5	9.0	11.5	10.5
11	---	---	7.0	6.0	9.5	8.5	10.5	9.5	10.0	9.5	11.0	10.0
12	---	---	6.5	5.5	8.5	7.5	10.0	9.5	10.0	9.5	12.5	9.5
13	---	---	6.0	5.0	8.5	7.5	9.5	9.0	10.0	10.0	11.5	9.5
14	---	---	5.5	4.5	8.5	7.0	9.5	9.0	10.0	9.0	10.5	10.0
15	---	---	6.0	4.5	8.5	7.0	9.0	8.5	9.5	9.0	10.5	9.5
16	---	---	8.0	6.0	7.5	6.0	9.0	8.0	9.5	9.0	11.0	9.0
17	---	---	9.5	8.0	8.0	7.0	8.5	7.5	9.5	9.0	10.5	9.0
18	---	---	9.5	8.5	7.5	6.5	8.0	7.0	10.0	9.5	10.5	9.5
19	---	---	10.0	9.5	6.5	5.5	8.5	7.0	10.0	9.0	12.0	8.5
20	15.0	13.0	9.5	9.0	7.0	5.5	8.5	7.0	10.0	9.0	12.0	8.5
21	14.5	13.0	9.5	9.0	8.0	7.0	8.5	8.0	10.0	9.0	10.5	9.0
22	13.5	11.5	9.0	8.0	8.0	7.0	8.0	6.5	9.5	8.5	11.5	9.0
23	13.5	11.0	8.0	7.0	8.5	8.0	8.0	6.5	9.0	8.5	12.0	8.0
24	13.0	11.5	8.0	7.5	8.0	7.5	8.0	7.5	10.0	9.0	11.5	8.5
25	13.0	11.5	7.5	6.5	7.5	6.0	7.5	6.5	10.0	9.5	11.5	10.0
26	13.0	12.0	7.0	6.0	7.0	5.5	7.5	5.5	10.0	9.0	10.5	9.5
27	13.5	12.5	7.5	6.0	7.5	6.5	7.0	6.5	9.5	9.0	11.0	9.5
28	12.5	11.0	9.5	7.5	6.5	5.0	6.5	5.5	10.0	9.0	12.0	9.0
29	12.0	11.0	10.0	9.5	5.0	4.0	6.5	5.0	---	---	12.0	9.5
30	---	---	10.5	10.0	4.0	3.5	7.0	6.0	---	---	11.5	9.0
31	---	---	---	---	4.5	3.0	7.0	5.0	---	---	12.0	8.5
MONTH	15.0	11.0	10.5	4.5	10.5	3.0	10.5	3.5	10.0	5.0	12.5	8.0

11532620 MILL CREEK NEAR CRESCENT CITY, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.5	8.0	14.5	11.0	18.0	13.5	16.5	14.0	20.5	17.0	17.5	16.0
2	11.5	8.5	14.5	10.5	18.5	14.0	17.0	13.0	20.0	17.0	17.0	16.0
3	12.0	9.0	12.5	11.5	18.0	14.5	17.5	13.0	20.0	16.5	18.5	16.0
4	13.0	8.5	11.5	11.0	18.0	14.0	16.5	15.0	17.5	16.0	18.5	15.5
5	11.5	9.5	11.0	10.5	17.5	13.5	18.5	14.0	19.5	15.5	18.5	15.5
6	11.5	9.0	10.5	10.0	17.5	14.0	18.0	14.0	19.5	15.5	18.5	15.0
7	13.0	9.5	10.5	10.0	17.5	13.0	19.0	14.5	19.5	16.0	18.5	15.0
8	11.0	9.5	10.5	9.5	18.0	13.5	19.5	16.0	19.5	16.0	19.0	16.5
9	11.5	9.0	12.5	7.5	17.5	14.0	17.5	15.5	19.0	15.5	18.5	15.5
10	10.0	9.0	12.5	9.5	18.0	14.0	18.5	14.5	18.5	16.0	18.5	15.0
11	10.5	9.5	13.0	9.5	17.5	14.0	18.5	15.5	18.5	14.5	19.0	15.5
12	11.0	9.5	14.0	10.0	17.0	13.5	19.5	15.5	17.0	15.5	19.5	16.0
13	11.0	9.5	14.0	10.5	16.5	12.5	19.5	15.5	16.5	16.0	19.5	16.0
14	10.5	9.0	13.0	11.0	16.0	12.5	20.0	15.5	19.0	15.5	17.5	16.5
15	11.0	9.5	12.0	11.0	16.5	12.5	20.5	16.0	18.5	15.5	18.0	15.0
16	10.5	9.5	14.0	11.0	14.5	13.0	20.5	16.5	19.5	16.0	19.0	16.0
17	10.5	9.0	15.0	11.0	15.0	12.5	20.5	16.5	19.5	16.0	18.5	15.5
18	11.0	9.0	16.0	11.0	17.0	13.0	20.0	17.0	19.5	16.0	17.0	16.5
19	11.5	8.5	16.0	11.5	17.5	13.5	---	---	19.0	17.5	18.5	15.5
20	12.0	8.5	15.0	12.0	17.0	13.5	---	---	18.0	15.5	17.0	16.0
21	11.5	9.0	13.0	12.5	17.5	14.0	---	---	19.0	16.0	16.0	16.0
22	12.0	9.5	14.0	12.0	17.5	13.5	---	---	19.5	16.0	17.5	15.5
23	11.5	9.0	14.5	12.5	18.0	13.5	---	---	19.5	16.0	18.0	15.5
24	13.0	9.5	16.0	12.0	18.0	14.5	---	---	19.5	16.0	18.0	14.5
25	14.0	9.5	16.5	12.0	18.0	14.5	21.0	17.0	18.5	17.0	17.0	16.0
26	12.5	10.5	15.0	13.0	16.0	15.0	18.0	17.0	20.0	17.5	17.5	15.0
27	13.0	11.0	15.0	11.5	16.0	14.0	17.0	16.5	18.5	17.0	17.0	15.0
28	14.0	11.0	15.0	11.0	15.5	14.0	20.0	15.5	19.0	17.0	17.0	14.0
29	13.0	11.0	15.5	11.0	17.5	13.0	20.0	16.0	19.0	17.0	16.5	14.0
30	12.5	11.5	16.5	11.5	17.5	13.5	20.5	16.5	19.0	17.0	17.5	14.5
31	---	---	17.0	12.5	---	---	20.0	17.0	19.0	15.5	---	---
MONTH	14.0	8.0	17.0	7.5	18.5	12.5	21.0	13.0	20.5	14.5	19.5	14.0
YEAR	21.0	3.0										

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDEd (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDEd (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
03...	1745	16.0	16	1	.04	--
NOV						
08...	1645	10.0	10	6	.16	--
29...	1445	10.0	127	33	11	86
DEC						
11...	0840	--	153	40	17	63
19...	1305	6.0	99	2	.53	--
JAN						
22...	1500	7.0	99	2	.53	--
MAR						
08...	1600	12.0	184	3	1.5	--
28...	1630	11.5	73	3	.59	--
MAY						
09...	1345	11.5	361	6	5.8	--
22...	1530	13.0	64	3	.52	--
JUN						
27...	1655	16.0	17	1	.05	--
JUL						
24...	1630	21.5	8.4	1	.02	--
AUG						
28...	1155	18.0	5.4	4	.06	--

DISCHARGE AT PARTIAL-RECORD STATIONS

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 1979

Station No.	Station name	Drainage area (mi ²)	Period of record	Measurements	
				Date	Discharge (ft ³ s)
Alameda Creek basin					
11174200	Alameda Creek at Sunol, CA	198	1975-76b, 1977-79	1-11-79	0
11174600	Alamo Canal near Pleasanton, CA	--	1975-76b, 1977-79c	11-21-78 1-10-79 3-8-79 8-9-79 9-12-79	16.6 2.10 5.42 a0.85 a0.52
11176150	Arroyo Las Positas near Livermore, CA	64.6	1912-19†, 1921-30‡, 1975-76b, 1977-79c	2-21-79	233
11177200	Vallecitos Creek at Sunol, CA	7.48	1975-76b, 1977-79d	1-4-79 1-11-79 5-14-79	a0.19 19.6 a0.14
11177300	Sinbad Creek at Sunol, CA	6.50	1975-76b, 1977-79c	1-11-79 2-22-79 2-22-79	43.1 56.2 79.7
Klamath River basin					
11516528	Bogus Creek near Hornbrook, CA	53.5	1965-75b, 1976-79	8-31-79	a13.1
11522200	Elk Creek near Happy Camp, CA	90.4	1956-64‡, 1967-75b, 1976-79	8-30-79	a40.9
11525520	Deadwood Creek at Lewiston, CA	9.10	1965-75, 1976-79	3-26-79 9-7-79	4.40 a.30

† Operated as a continuous-record gaging station.

a Base flow.

b Published as a miscellaneous measurement.

c Water-quality data for current year published in partial-record section of this report.

d Water-quality data for current year published in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS

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Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for the current water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been obtained.

Annual maximum discharge at crest-stage partial-record stations during water year 1979

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
Napa River basin							
11455860	Napa River at Greenwood Avenue, near Calistoga, CA	Lat 38°35'22", long 122°35'48" in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on left bank at culvert on Greenwood Avenue, 1.2 mi (1.9 km) northwest of Calistoga.	5.39	1976-79	1-11-79	6.01	304
11455865	Blossom Creek near Calistoga, CA	Lat 38°35'36", long 122°36'47", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on left bank at upstream side of private road bridge, 1.1 mi (1.8 km) upstream from mouth, and 2.2 mi (3.5 km) northwest of Calistoga.	2.01	1976-79	1-11-79	3.72	199
11455880	Garnett Creek near Calistoga, CA	Lat 38°35'36", long 122°35'26", in Carne Humana Grant, Napa County, Hydrologic Unit 1805002, on right bank at upstream side of bridge on Greenwood Avenue, 0.6 mi (1.0 km) upstream from mouth, and 1.2 mi (1.9 km) northwest of Calistoga.	7.66	1976-79	1-11-79	8.45	910
11455890	Cyrus Creek at Calistoga, CA	Lat 38°34'51", long 122°35'38" in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on right bank at downstream side of bridge on State Highway 128, 0.5 mi (0.8 km) upstream from mouth, and 0.8 mi (1.3 km) west of Calistoga.	3.03	1976-79	--	--	a
Eel River basin							
11469600	Hull Creek near Potter Valley, CA	Lat 39°32'39", long 122°55'34", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.35, T.20 N., R.10 W., Mendocino County, Hydrologic Unit 18010103, Mendocino National Forest, at culvert on Hull Creek Road, 18 mi (29 km) northeast of Potter Valley.	1.49	1970-79	1-11-79	54.06	215
11469650	Corbin Creek near Elk Creek, CA	Lat 39°32'56", long 122°43'28", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.35, T.20 N., R.8 W., Glenn County, Hydrologic Unit 18010103, Mendocino National Forest, at culvert on Elk Creek-Potter Valley Road, 11 mi (18 km) southwest of town of Elk Creek.	6.18	1971-79	3-27-79	53.60	110
11469800	Cold Creek tributary near Elk Creek, CA	Lat 39°26'18", long 122°45'35", Lake County, Hydrologic Unit 18010103, Mendocino National Forest, at culvert on Pacific Crest Road, 4 mi (6 km) upstream from mouth, and 16.5 mi (26.5 km) southwest of town of Elk Creek.	.81	1969-70b 1971-79	3-27-79	3.06	70
11472700	Hammerhorn Creek near Covelo, CA	Lat 39°56'42", long 122°59'50", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.8, T.24 N., R.10 W., Mendocino County, Hydrologic Unit 18010104, Mendocino National Forest, at culvert on Six Rivers-Clear Lake Road 17 mi (27 km) northeast of Covelo.	3.36	1970-79	1-11-79	54.66	282

a Peak discharge did not reach base of gage.

b Operated as a continuous record gaging station.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

PAJARO RIVER BASIN
11153500 LLAGAS CREEK NEAR MORGAN HILL, CA

LOCATION.--Lat 37°06'52", long 121°41'22", in Las Uvas Grant, Santa Clara County, Hydrologic Unit 18060002, 500 ft (152 m) upstream from Llagas Avenue bridge, 0.3 mi (0.5 km) downstream from Chesbro Dam, 0.3 mi (0.5 km) upstream from small left bank tributary, and 2.3 mi (3.7 km) west of Morgan Hill.

DRAINAGE AREA.--19.6 mi² (50.8 km²).

PERIOD OF RECORD.--

* CHEMICAL ANALYSIS: Water year 1979.

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)
JAN 18...	1245	.90	379	7.6	9.0	11.0	180	24	34	24	9.3
FEB 15...	1100	.70	398	7.9	10.0	11.6	190	24	35	26	9.8
MAR 15...	1230	1.2	354	8.2	11.5	12.8	190	29	36	24	9.5
28...	0745	1.6	392	7.8	10.5	9.7	210	29	36	29	9.8
APR 25...	1755	1.4	341	7.7	13.0	10.1	170	15	32	23	10
MAY 24...	0855	8.6	336	7.8	12.0	10.3	180	28	35	22	9.2
AUG 01...	1150	1.8	382	7.7	22.0	7.2	180	4	34	24	11
SEP 05...	1007	13	414	8.0	21.5	8.2	230	38	42	30	11
DATE	SODIUM PERCENT	SODIUM AD-SORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO3)	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)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
JAN 18...	10	.3	1.8	160	18	10	.1	16	212	.63	.62
FEB 15...	10	.3	1.6	170	28	11	.1	17	234	.56	.60
MAR 15...	10	.3	1.4	160	25	9.9	.1	15	220	.59	.63
28...	9	.3	1.2	180	24	11	.1	17	239	.52	.51
APR 25...	11	.3	1.3	160	21	8.4	.1	17	211	.37	.33
MAY 24...	10	.3	1.6	150	22	11	.1	17	209	.48	.17
AUG 01...	11	.4	1.8	180	24	12	.1	16	232	.15	.13
SEP 05...	9	.3	1.7	190	29	13	.2	14	256	.03	.04
DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	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, ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (UG/L AS AL)	BORON, DIS-SOLVED (UG/L AS B)
JAN 18...	.06	.04	.61	.36	.67	.40	1.3	.09	.00	10	180
FEB 15...	.06	--	.55	--	.61	--	1.2	.07	.01	--	210
MAR 15...	.03	.04	.54	.39	.57	.43	1.2	.02	.00	--	190
28...	.09	.09	.35	.29	.44	.38	.96	.02	.00	--	190
APR 25...	.10	.07	.37	.32	.47	.39	.84	.04	.02	--	200
MAY 24...	--	--	--	--	.36	.20	.84	.06	.02	--	200
AUG 01...	--	--	--	--	--	.38	--	--	.04	0	250
SEP 05...	.07	.06	.41	.47	.48	.53	.51	.03	.04	--	240

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

11153500 PAJARO RIVER BASIN--Continued
 11153555 LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
JAN 18...	<1	10	2	20	6	60	.0	0	<3	6.8
FEB 15...	--	--	--	10	--	--	--	--	--	--
MAR 15...	--	--	--	30	--	--	--	--	--	--
MAR 28...	--	--	--	30	--	--	--	--	--	--
APR 25...	--	--	--	20	--	--	--	--	--	--
MAY 24...	--	--	--	170	--	--	--	--	--	--
AUG 01...	<1	10	0	30	0	2	.1	0	<3	6.2
SEP 05...	--	--	--	0	--	--	--	--	--	--

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 (0.5 km) east of San Martin.
 DRAINAGE AREA.--28.2 mi² (73.0 km²).

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	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)
JAN 18...	1510	2.4	419	8.4	12.5	16.4	210	30	38	28	12
FEB 15...	0950	6.6	347	8.1	9.5	11.1	--	--	--	--	--
MAR 15...	1445	11	346	8.6	12.5	12.3	--	--	--	--	--
MAR 28...	0940	14	326	8.5	12.0	13.1	--	--	--	--	--
APR 25...	1620	11	288	9.0	18.0	11.9	140	20	28	17	10
MAY 24...	1100	13	306	8.4	17.0	12.3	--	--	--	--	--
AUG 01...	1030	20	367	8.2	19.0	10.3	170	5	32	23	13
SEP 05...	1235	24	364	8.5	23.0	11.3	--	--	--	--	--

DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (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 SI02)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
JAN 18...	11	.4	1.5	180	27	15	.1	20	250	160	10
FEB 15...	--	--	--	150	--	--	--	--	--	--	--
MAR 15...	--	--	--	150	--	--	--	--	--	--	--
MAR 28...	--	--	--	140	--	--	--	--	--	--	--
APR 25...	13	.4	1.0	120	27	7.7	.1	14	177	120	20
MAY 24...	--	--	--	140	--	--	--	--	--	--	--
AUG 01...	14	.4	1.5	170	25	9.8	.3	17	224	120	30
SEP 05...	--	--	--	170	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GUADALUPE RIVER BASIN
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 (0.3 km) downstream from confluence of Alamitos and Guadalupe Creeks.
DRAINAGE AREA.--53.0 mi² (137.3 km²).

DATE	TIME	STREAM-FLOW-INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)
JAN 18...	1015	18	439	8.2	10.5	9.2	200	41	31	30	19
FEB 14...	1505	68	415	7.8	13.5	10.7	170	43	28	25	22
MAR 16...	1050	12	504	8.4	14.5	12.2	230	44	36	35	22
MAR 27...	1445	86	372	7.9	14.5	9.3	180	43	32	25	15
APR 26...	1055	15	557	8.2	18.0	9.7	280	55	41	42	23
MAY 23...	1410	18	463	8.3	23.0	11.1	250	41	41	36	15
JUL 31...	1335	13	475	8.4	25.5	12.2	230	21	38	33	17
SEP 04...	1400	13	433	8.6	24.5	12.1	220	28	38	30	13

DATE	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO3)	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)	NITROGEN, DIS-SOLVED, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, DIS-SOLVED, NO2+NO3 (MG/L AS N)
JAN 18...	17	.6	2.6	160	34	22	.1	15	259	1.9	1.9
FEB 14...	21	.7	1.8	130	41	28	.1	15	246	1.4	1.4
MAR 16...	17	.6	1.5	190	40	32	.1	15	304	1.6	1.7
MAR 27...	15	.5	2.2	140	34	20	.1	11	229	1.0	1.1
APR 26...	15	.6	1.4	220	41	32	.2	16	337	1.9	1.9
MAY 23...	11	.4	1.3	210	32	19	.1	15	289	.87	.83
JUL 31...	14	.5	1.5	210	31	23	.3	14	287	.64	.64
SEP 04...	11	.4	1.5	190	27	17	.2	11	253	.29	.29

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	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. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (UG/L AS AL)
JAN 18...	.10	.06	.74	.86	.84	.92	2.7	.18	.08	10
FEB 14...	.09	.02	.63	.37	.72	.39	2.1	.11	.04	--
MAR 16...	.05	.01	.46	.40	.51	.41	2.1	.04	.00	--
MAR 27...	.06	.06	.45	.42	.51	.48	1.5	.11	.03	--
APR 26...	.06	.01	.47	.27	.53	.28	2.4	.04	.02	--
MAY 23...	.08	.00	.32	.40	.40	.40	1.3	.03	.00	--
JUL 31...	.01	.04	.37	.40	.38	.44	1.0	.00	.01	0
SEP 04...	.03	.03	.55	.05	.58	.08	.87	.02	.01	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GUADALUPE RIVER BASIN--Continued
11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

DATE	ALUM- INUM, RECOV, FM BOT- TOM MA- TERIAL (UG/G)	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)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV, FM BOT- TOM MA- TERIAL (UG/G)	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)
JAN 18...	--	--	110	<1	--	10	--	3	--	10
FEB 14...	--	--	160	--	--	--	--	--	--	60
MAR 16...	--	--	150	--	--	--	--	--	--	10
MAR 27...	--	--	130	--	--	--	--	--	--	30
APR 26...	--	--	160	--	--	--	--	--	--	10
MAY 23...	8900	8	130	--	0	--	130	--	25	10
JUL 31...	--	--	130	1	--	0	--	0	--	10
SEP 04...	--	--	140	--	--	--	--	--	--	10

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV, FM BOT- TOM MA- TERIAL (UG/G AS PB)	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/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV, FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
JAN 18...	4	--	8	--	.0	--	100	<3	--	4.8
FEB 14...	--	--	--	--	--	--	--	--	--	--
MAR 16...	--	--	--	--	--	--	--	--	--	--
MAR 27...	--	--	--	--	--	--	--	--	--	--
APR 26...	--	--	--	--	--	--	--	--	--	--
MAY 23...	--	10	--	570	--	7.2	--	--	52	--
JUL 31...	0	--	3	--	.0	--	0	<3	--	4.8
SEP 04...	--	--	--	--	--	--	--	--	--	--

11167970 LOS GATOS CREEK ABOVE LEXINGTON RESERVOIR, NEAR LOS GATOS, CA

LOCATION.--Lat 37°10'02", long 121°58'43", in SE¼NW¼ sec.9, T.9 S., R.1 W., Santa Clara County, Hydrologic Unit 18050003, 400 ft (122 m) upstream from inflow to Lexington Reservoir, 0.3 mi (0.5 km) north of Chemeketa Park, and 4.1 mi (6.6 km) south of Los Gatos.

DRAINAGE AREA.--19.1 mi² (49.5 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water year 1978-79.

BIOLOGICAL DATA: Water year 1978.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	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)
MAR 23...	1030	3.2	526	8.2	10.0	12.4	16	K10	250	87	61	23
JUN 06...	1015	2.1	482	8.1	15.5	9.6	57	160	240	56	58	22

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (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 SI02)	SOLIDS, SUM OF CONSTIT- UENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
MAR 23...	22	16	.6	1.7	160	120	14	.3	17	357	.49	3.08
JUN 06...	20	15	.6	2.0	180	78	13	.2	17	320	.44	1.81

DATE	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)	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)
MAR 23...	.25	.00	.25	.30	.01	.01	.11	.13	.12	.14	.37
JUN 06...	.14	.02	.16	.17	.01	.00	.05	.10	.06	.10	.22

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GUADALUPE RIVER BASIN--Continued
 11167970 LOS GATOS CREEK ABOVE LEXINGTON RESERVOIR, NEAR LOS GATOS, CA--Continued

DATE	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	ALUMINUM, DIS-SOLVED (UG/L AS AL)	ARSENIC, DIS-SOLVED (UG/L AS AS)	BARIIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM, DIS-SOLVED (UG/L AS CD)	CHROMIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
MAR 23...	.03	.02	.05	--	--	--	--	--	--	--	--
JUN 06...	.04	.04	.04	30	4	100	0	0	0	0	0

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM, DIS-SOLVED (UG/L AS LI)	MANGANESE, DIS-SOLVED (UG/L AS MN)	MERCURY, DIS-SOLVED (UG/L AS HG)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR 23...	--	--	--	--	--	--	--	--	--	--	--
JUN 06...	10	0	10	60	.0	0	2	0	0	290	10

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, 1800 ft (549 m) downstream from Vasona Dam, and 2 mi (3 km) northeast of Los Gatos Post Office.

DRAINAGE AREA.--43.3 mi² (112.1 km²).

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)
JAN 17...	1420	34	339	7.5	10.0	8.9	150	44	37	15	13
FEB 14...	1700	24	388	8.4	12.5	7.6	180	60	44	18	15
MAR 16...	0925	17	410	8.3	13.5	11.5	190	53	46	19	15
MAR 27...	1625	68	372	8.0	14.5	9.8	170	45	42	17	14
APR 26...	0900	21	387	8.1	15.5	9.8	170	50	40	17	15
MAY 23...	1610	1.3	397	8.4	25.5	12.1	200	66	47	19	16
JUL 31...	1110	13	387	7.7	21.0	8.9	160	35	38	17	16
SEP 04...	1553	28	399	8.2	21.0	8.4	180	61	41	19	15

DATE	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO3)	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)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
JAN 17...	15	.5	2.1	110	43	12	.1	7.6	200	.85	.83
FEB 14...	15	.5	1.9	120	60	18	.1	8.9	239	.42	.45
MAR 16...	14	.5	1.8	140	56	16	.2	12	253	.58	.54
MAR 27...	15	.5	1.7	130	56	14	.2	8.9	234	.50	.51
APR 26...	16	.5	1.8	120	56	18	.2	10	232	.40	.38
MAY 23...	15	.5	2.3	130	66	15	.2	6.9	252	.42	.27
JUL 31...	17	.5	2.2	130	63	13	.3	13	241	.05	.03
SEP 04...	--	.5	2.0	120	68	15	.2	11	245	.09	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

GUADALUPE RIVER BASIN--Continued
11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

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, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA + 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)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BORON, DIS-SOLVED (UG/L AS B)
JAN 17...	.08	.06	.58	.48	.66	.54	1.5	.12	.01	10	60
FEB 14...	.08	.02	.42	.34	.50	.36	.92	.06	.01	--	90
MAR 16...	.07	.04	.39	.36	.46	.40	1.0	.03	.00	--	80
MAR 27...	.09	.12	.48	.30	.57	.42	1.1	.04	.00	--	80
APR 26...	.08	.01	.35	.28	.43	.29	.83	.03	.02	--	90
MAY 23...	.05	.00	.36	.24	.41	.24	.83	.03	.00	--	80
JUL 31...	.02	.04	.34	.17	.36	.21	.41	.00	.01	0	90
SEP 04...	.09	.11	.61	.00	.70	.08	.79	.04	--	--	70

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHROMIUM DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGANESE, DIS-SOLVED (UG/L AS MN)	MERCURY, DIS-SOLVED (UG/L AS HG)	NICKEL, DIS-SOLVED (UG/L AS NI)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
JAN 17...	<1	10	3	30	7	10	.0	0	<3	5.6
FEB 14...	--	--	--	20	--	--	--	--	--	--
MAR 16...	--	--	--	30	--	--	--	--	--	--
MAR 27...	--	--	--	20	--	--	--	--	--	--
APR 26...	--	--	--	20	--	--	--	--	--	--
MAY 23...	--	--	--	10	--	--	--	--	--	--
JUL 31...	2	10	0	10	0	100	.0	0	<3	5.3
SEP 04...	--	--	--	10	--	--	--	--	--	--

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 (30 km) downstream from Los Gatos Creek.
DRAINAGE AREA. 144 mi² (373 km²).

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARDNESS, AS (MG/L CAC03)	HARDNESS, NONCARBONATE (MG/L CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
JAN 17...	0925	52	405	7.6	9.0	11.0	180	36	31	24	18	18
FEB 14...	1110	135	177	7.2	12.5	10.0	95	28	20	11	13	23
MAR 16...	1455	27	288	7.7	13.5	8.5	100	32	20	13	20	29
MAR 27...	1040	453	176	7.5	13.5	9.5	73	21	17	7.5	9.5	21
APR 26...	1450	31	259	7.2	18.5	6.8	88	26	19	9.8	19	31
MAY 23...	0925	.69	895	8.1	18.5	7.8	360	71	62	50	55	25
AUG 01...	1435	.33	735	8.2	26.0	10.9	310	41	65	36	49	25
SEP 04...	1100	.00	859	8.0	21.0	7.0	350	61	63	47	61	27

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS S04)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SI02)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)
JAN 17...	.6	2.4	140	32	21	.1	13	233	1.5	1.5	.10	.06
FEB 14...	.6	1.7	67	27	19	.1	7.5	143	.72	.76	.09	.13
MAR 16...	.9	2.1	71	26	27	.1	5.1	162	1.2	1.3	.03	.06
MAR 27...	.5	1.8	52	18	13	.1	5.6	107	.61	.63	.13	--
APR 26...	.9	2.2	62	27	23	.1	7.4	149	.84	.82	.05	.06
MAY 23...	1.3	3.7	290	86	75	.2	11	521	.92	.79	.01	.00
AUG 01...	1.2	3.4	270	64	54	.1	21	461	1.4	1.4	.01	.07
SEP 04...	1.4	3.7	290	83	73	.2	14	522	.54	.54	.10	.10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

COYOTE CREEK BASIN
11171500 COYOTE CREEK NEAR EDENVALE, CA

LOCATION.--Lat 38°16'15", long 121°47'47", at east boundary of Santa Teresa Grant, Santa Clara County, Hydrologic Unit 18050003, at "The Narrows," 1.5 mi (2.4 km) northeast of Edenvale, and 7 mi (11 km) south of San Jose.
DRAINAGE AREA.--229 mi² (593 km²).

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)
JAN 17...	1210	5.1	560	7.4	9.5	8.9	240	68	46	30	26
FEB 14...	1300	.00	73	7.0	15.5	9.7	26	5	6.1	2.5	3.5
MAR 16...	1245	.40	391	7.8	16.5	8.2	170	56	35	19	17
MAR 27...	1305	1.4	66	7.5	14.5	9.0	23	7	6.7	1.5	4.5
APR 26...	1305	.40	213	7.1	19.0	3.9	88	8	21	8.6	8.3
MAY 23...	1130	.40	435	7.6	20.5	7.4	210	31	45	24	20
JUL 31...	1520	.30	431	7.6	28.0	5.5	170	5	37	20	20

DATE	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO3)	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)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
JAN 17...	19	.7	7.1	170	56	32	.2	16	338	4.7	4.9
FEB 14...	22	.3	1.2	21	3.3	4.4	.0	3.4	39	.28	.31
MAR 16...	18	.6	2.6	110	47	18	.1	8.0	226	2.6	2.8
MAR 27...	29	.4	1.0	16	4.1	6.6	.0	2.2	37	.19	.19
APR 26...	17	.4	2.4	80	8.7	7.2	.1	5.7	112	.05	.06
MAY 23...	17	.6	3.2	180	49	16	.2	11	277	.10	.12
JUL 31...	20	.7	2.4	170	39	16	.1	11	248	.05	.02

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	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, ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (UG/L AS AL)
JAN 17...	.10	.04	1.1	1.2	1.2	1.2	5.9	.19	.07	10
FEB 14...	.08	.08	.46	.21	.54	.29	.82	.22	.09	--
MAR 16...	.02	.01	.92	.48	.94	.49	3.5	.19	.09	--
MAR 27...	.06	.06	.37	.38	.43	.44	.62	.12	.08	--
APR 26...	.18	.03	1.2	.91	1.4	.94	1.5	.37	.13	--
MAY 23...	.07	.00	.42	.36	.49	.36	.59	.05	.05	--
JUL 31...	.00	.03	.24	.28	.24	.31	.29	.02	.03	0

DATE	ALUMINUM, RECOV. FM BOTTOM MATERIAL (UG/G)	ARSENIC, TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM, DIS-SOLVED (UG/L AS Cd)	CADMIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS Cd)	CHROMIUM, DIS-SOLVED (UG/L AS Cr)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COPPER, DIS-SOLVED (UG/L AS Cu)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS Cu)	IRON, DIS-SOLVED (UG/L AS Fe)
JAN 17...	--	--	130	5	--	0	--	4	--	60
FEB 14...	--	--	20	--	--	--	--	--	--	40
MAR 16...	--	--	110	--	--	--	--	--	--	20
MAR 27...	--	--	50	--	--	--	--	--	--	40
APR 26...	--	--	100	--	--	--	--	--	--	600
MAY 23...	7400	3	210	--	0	--	140	--	55	10
JUL 31...	--	--	130	<1	--	0	--	0	--	20

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

COYOTE CREEK BASIN--Continued
11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	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/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
JAN 17...	3	--	6	--	.0	--	0	<3	--	8.7
FEB 14...	--	--	--	--	--	--	--	--	--	--
MAR 16...	--	--	--	--	--	--	--	--	--	--
MAR 27...	--	--	--	--	--	--	--	--	--	--
APR 26...	--	--	--	--	--	--	--	--	--	--
MAY 23...	--	410	--	380	--	.19	--	--	178	--
JUL 31...	0	--	10	--	.0	--	0	<3	--	5.4

ALAMEDA CREEK BASIN
11174200 ALAMEDA CREEK AT SUNOL, CA

LOCATION.--Lat 37°35'15", long 121°53'21", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on left bank 50 ft (15 m) upstream from road ford, 600 ft (183 m) upstream from Arroyo de la Laguna, and 0.6 mi (1.0 km) south of Sunol.

DRAINAGE AREA.--198 mi² (513 km²).

PERIOD OF RECORD.--Water year 1979.

COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
JAN 31...	1000	458	7.8	6.0	8.6	180	42	18
MAR 07...	1015	413	8.7	17.0	1.6	180	46	17

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
JAN 31...	18	271	.37	.37	.01	.38	.00	.00
MAR 07...	20	245	.33	.18	.01	.19	.00	.10

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 (9 m) upstream from VCSD wasteway, 0.7 mi (1.1 km) upstream from Arroyo Mocho, 3 mi (5 km) northwest of Pleasanton.

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1975 to current year.

COOPERATION.--Chemical-quality samples were collected by Valley Community Services District.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 21...	1430	2.3	930	7.0	25.0	36	180	36	22	110
FEB 27...	0900	7.5	1000	7.4	25.0	15	350	85	33	83
MAY 22...	0830	.55	1400	7.2	25.0	5.5	430	95	46	180

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	COLI- FORM, FFCAL, 0.7 UM-MF (COLS./ 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
NOV 21...	603	.83	3.78	20	.03	20	.04	3800	.40
FEB 27...	654	.90	13.4	1.9	.04	1.9	.04	1500	.10
MAY 22...	855	1.16	1.27	.92	.05	.97	.06	1200	.20

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

ALAMEDA CREEK BASIN--Continued
11176150 ARROYO LAS POSITAS NEAR LIVERMORE, CA

LOCATION.--Lat 37°41'52", long 121°48'15", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank, 15 ft (5 m) upstream from Kitty Hawk Road, 800 ft (244 m) upstream from Collier Creek, and 2.3 mi (3.7 km) northwest of Livermore.

DRAINAGE AREA.--64.6 mi² (167.3 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1976 to current year.

COOPERATION.--Chemical-quality samples were collected by City of Livermore.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 22...	0830	1030	100	150	30	19	290
FEB 28...	0920	--	8.3	360	70	46	320

DATE	TIME	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
NOV 22...	589	.80	1.2	.06	1.3	.02	--	
FEB 28...	1120	1.52	2.6	.05	2.6	.00	.10	

11177300 SINBAD CREEK AT SUNOL, CA

LOCATION.--37°35'41", long 121°53'07", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on left bank at culvert on Western Pacific Railroad in Sunol, 900 ft (274 m) upstream from mouth.

DRAINAGE AREA.--6.50 mi² (16.84 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1975, 1978.

COOPERATION.--Chemical-quality samples collected by Alameda County Water District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
JAN 31...	0940	632	7.6	6.0	.30	290	67	30
MAR 07...	0955	520	8.2	13.0	.50	210	49	21

DATE	TIME	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
JAN 31...	40		450	.61	2.1	.01	2.1	.00	.10
MAR 07...	21		314	.43	1.1	.01	1.1	.00	.10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

ALAMEDA CREEK BASIN--Continued
11178400 STONYBROOK CREEK NEAR NILES, CA

LOCATION.--Lat 37°35'54", long 121°56'51", in SE¼ sec.11, T.4 S., R.1 W., Alameda County, Hydrologic Unit 18050004, on right bank at culvert on State Highway 84, 50 ft (15 m) upstream from mouth, and 2.5 mi (4.0 km) north of Niles.

DRAINAGE AREA.--6.89 mi² (17.85 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1975, 1978.

COOPERATION.--Chemical-quality samples collected by Alameda County Water District.

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	HARDNESS (MG/L AS CALCO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)
JAN 31...	0925	2.0	632	7.6	6.0	.30	200	65	8.4
MAR 07...	0940	7.0	532	8.2	12.0	1.5	250	59	25
MAY 30...	1000	.60	620	8.3	15.0	.40	270	92	9.5

DATE	CHLORIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
JAN 31...	24	468	.64	2.53	1.8	.01	1.8	--	.10
MAR 07...	20	369	.50	6.97	1.4	.01	1.4	.00	.10
MAY 30...	23	616	.84	1.00	.13	.02	.15	.03	.10

11179010 SAN FRANCISCO RELEASE AT NILES RESERVOIR, AT NILES, CA

LOCATION.--Lat 37°34'55", long 121°57'35", in SW¼ sec.15, T.4 S., R.1 W., Alameda County, Hydrologic Unit 18050004, at Niles Reservoir, 1 mi (2km) northeast of Niles.

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1975 to current year.

COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

DATE	TIME	SPE-CIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	HARDNESS (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	CHLORIDE, DIS-SOLVED (MG/L AS CL)
JAN 31...	0900	564	7.1	10.0	1.0	250	53	24	36
MAR 07...	0915	585	8.3	13.0	3.6	250	57	27	37
MAY 30...	1420	400	7.8	20.0	3.0	180	44	40	20

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
JAN 31...	383	.52	4.3	4.6	.00	4.6	.00	.10
MAR 07...	575	.78	--	5.9	.01	5.9	.01	.20
MAY 30...	261	.35	2.5	2.7	.02	2.7	.07	.10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

ALAMEDA CREEK BASIN--Continued
11179040 KAISER PIT AT NILES, CA

LOCATION.--Lat 37°34'08", long 121°58'56", in SW¼ sec.21, T.4 S., R.1 W., Alameda County, Hydrologic Unit 18050004, at Kaiser recharge pit, 0.6 mi (1.0 km) south of Niles.

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1975 to current year.

COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
DEC 06...	0840	792	7.0	12.5	2.6	230	48	27
MAR 07...	0845	744	9.2	15.0	2.0	220	45	27
MAY 30...	0910	827	9.5	22.0	3.2	180	46	17

DATE	TIME	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
DEC 06...	110		523	.71	4.4	.13	4.5	.01	.30
MAR 07...	110		507	.69	2.0	.05	2.0	.01	.20
MAY 30...	110		525	.71	.25	.02	.27	.16	.20

11179050 SHINN PIT AT NILES, CA

LOCATION.--Lat 37°34'12", long 121°59'15", in Arroyo de la Arroyo Grant, Alameda County, Hydrologic Unit 18050004, 0.6 mi (1.0 km) south of Niles.

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1975 to current year.

COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
DEC 06...	1300	864	7.8	12.0	7.5	240	48	28
MAR 07...	1500	791	8.1	19.0	2.7	220	45	26
MAY 30...	1435	880	8.7	21.0	12	230	51	24

DATE	TIME	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
DEC 06...	120		529	.72	2.8	.69	3.5	.24	.20
MAR 07...	120		511	.69	2.1	.05	2.1	.01	.20
MAY 30...	110		555	.75	2.6	.09	2.7	.03	.20

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

TEMESCAL CREEK BASIN
11181330 TEMESCAL CREEK ABOVE LAKE TEMESCAL, AT OAKLAND, CA

LOCATION.--Lat 37°50'38", long 122°13'35", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002, on right bank at Oakland, 0.1 mi (0.2 km) upstream from inflow to Lake Temescal.
DRAINAGE AREA.--1.74 mi² (4.51 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSIS: Water year 1979.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-HF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)
SEP 20...	1430	.12	921	7.7	18.5	8.6	K16000	9200	10
DATE		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, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, PHOS- PHORUS, TOTAL (MG/L AS P)	
SEP 20...		.58	.04	.62	.03	.12	.15	.77	.24

TEMESCAL CREEK AT GRISBORNE AVENUE, AT OAKLAND, CA

LOCATION.--Lat 37°50'02", long 122°12'48", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1979.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-HF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)
SEP 26...	1215	.05	936	7.7	16.5	9.8	4400	6300	27
DATE		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, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, PHOS- PHORUS, TOTAL (MG/L AS P)	
SEP 26...		.63	.00	.63	.01	.45	.46	1.1	.23

TEMESCAL CREEK AT THORNHILL BRANCH, AT OAKLAND, CA

LOCATION.--Lat 37°50'30", long 122°12'27", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1979.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-HF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)
SEP 20...	1515	.04	812	7.6	19.0	9.1	K690	3000	8
SEP 26...	1230	.04	901	7.6	17.0	9.5	K2300	4500	1
DATE		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, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, PHOS- PHORUS, TOTAL (MG/L AS P)	
SEP 20...	1.2	.02	1.2	.02	.14	.16	1.4	.07	
SEP 26...	1.2	.02	1.2	.00	.52	.52	1.7	.09	

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

TEMESCAL CREEK BASIN--Continued
TEMESCAL CREEK AT PINEHAVEN BRANCH, AT OAKLAND, CA

LOCATION.--Lat 37°50'31", long 122°12'27", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1979.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	COLIFORM, FECCAL, UM-MF (COLS./100 ML)	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
SEP 20...	1530	.01	1130	7.7	19.0	9.7	4100	8700	7

DATE	NITROGEN, NITRATE (MG/L AS N)	NITROGEN, NITRITE (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
SEP 20...	.18	.02	.20	.01	.22	.23	.43	.15

TEMESCAL CREEK AT 8-ACRE CONTROL, AT OAKLAND, CA

LOCATION.--Lat 37°50'38", long 122°11'51", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1979.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	COLIFORM, FECCAL, UM-MF (COLS./100 ML)	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
SEP 26...	1300	.01	963	7.5	18.5	8.8	260	590	6

DATE	NITROGEN, NITRATE (MG/L AS N)	NITROGEN, NITRITE (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
SEP 26...	.47	.02	.49	.00	.38	.38	.87	.09

TEMESCAL CREEK ABOVE HOLDING POND, AT OAKLAND, CA

LOCATION.--Lat 37°50'39", long 122°13'37", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1979.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	COLIFORM, FECCAL, UM-MF (COLS./100 ML)	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
SEP 20...	1415	.12	921	7.6	19.5	8.0	K32000	7200	13
SEP 26...	1000	.07	1050	7.4	16.0	8.1	K1400	2200	0

DATE	NITROGEN, NITRATE (MG/L AS N)	NITROGEN, NITRITE (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
SEP 20...	.61	.02	.63	.06	.49	.55	1.2	.24
SEP 26...	.67	.02	.69	.02	.43	.45	1.1	.21

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

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

TEMESCAL CREEK BASIN--Continued
TEMESCAL CREEK BELOW HOLDING POND, AT OAKLAND, CA

LOCATION.--Lat 37°50'41", long 122°13'37", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1979.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
SEP 20...	1400	.02	938	7.8	22.0	10.2	K86	K48	0
26...	1030	--	990	8.0	17.5	11.8	110	K63	8

DATE	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, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
SEP 20...	.06	.02	.08	.01	.51	.52	.60	.15
26...	.24	.02	.26	.01	.78	.79	1.1	.16

TEMESCAL CREEK BELOW PINEHAVEN PARK, AT OAKLAND, CA

LOCATION.--Lat 37°50'51", long 122°12'26", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1979.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
SEP 20...	1545	.01	1140	7.8	20.0	8.9	2300	6000	70
26...	1245	.01	898	7.8	15.5	9.2	2700	10000	67

DATE	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, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
SEP 20...	.06	.02	.08	.03	.43	.46	.54	.46
26...	.13	.00	.13	.01	1.1	1.1	1.2	.35

LAKE TEMESCAL AT SOUTH SWIM AREA, AT OAKLAND, CA

LOCATION.--Lat 37°50'51", long 122°13'46", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1979.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
SEP 20...	1445	813	7.4	23.5	6.4	K77	550	28
26...	1100	838	7.0	22.0	3.1	K10	<5	1

DATE	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, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
SEP 20...	.05	.02	.07	.09	.53	.62	.69	.05
26...	.07	.02	.09	.30	.66	.96	1.1	.06

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

TEMESCAL CREEK BASIN--Continued
CALDECOTT CREEK AT BROADWAY AVENUE, AT OAKLAND, CA

LOCATION.--Lat 37°50'55", long 122°13'29", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1979.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)
SEP 26...	1130	436	7.4	18.5	8.8	230	280	11

DATE	TIME	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, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
SEP 26...		.14	.02	.16	.09	.31	.40	.56	.03

CALDECOTT CREEK AT CALDECOTT LANE (WEST END), AT OAKLAND, CA

LOCATION.--Lat 37°50'59", long 122°13'25", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1979.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)
SEP 26...	1145	.02	107	7.0	20.5	8.8	150	230	11

DATE	TIME	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, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
SEP 26...		.01	.02	.03	.03	.36	.39	.42	.02

CALDECOTT CREEK AT TUNNEL ROAD, AT OAKLAND, CA

LOCATION.--Lat 37°51'37", long 122°13'12", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1979.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)
SEP 26...	1200	.01	204	7.0	19.0	8.8	2600	K2400	2

DATE	TIME	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, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
SEP 26...		.05	.00	.05	.01	.38	.39	.44	.09

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

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

NAPA RIVER BASIN
11455850 NAPA RIVER AT TUBBS LANE, NEAR CALISTOGA, CA

LOCATION.--Lat 38°36'03", long 122°35'51", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on right bank at upstream side of Tubbs Lane bridge, 1.8 mi (2.9 km) northwest of Calistoga.
DRAINAGE AREA.--4.87 mi² (12.61 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water year 1976-79 (discontinued).

COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

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)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)
NOV 01...	1025	96	--	17	13	61	57	2.7	3.2	120
JAN 10...	0935	84	24	17	10	47	53	2.2	6.8	60
FEB 07...	0955	61	9	11	8.2	11	28	.6	1.1	52
MAR 14...	1035	62	14	11	8.4	7.2	20	.4	1.0	48
MAY 02...	1050	70	13	12	9.8	7.4	18	.4	1.1	57

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, 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)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 01...	8.0	70	1.1	43	--	--	--	.21	3500	20
JAN 10...	12	65	.3	29	254	254	.35	6.9	130	410
FEB 07...	14	13	.1	32	133	130	.18	1.7	350	50
MAR 14...	13	4.8	.1	28	109	108	.15	1.3	80	70
MAY 02...	14	5.0	.1	30	113	117	.15	.79	100	70

11455860 NAPA RIVER AT GREENWOOD AVENUE, NEAR CALISTOGA, CA

LOCATION.--Lat 38°35'22", long 122°35'48", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on left bank at culvert on Greenwood Avenue, 1.2 mi (1.9 km) northwest of Calistoga.
DRAINAGE AREA.--5.39 mi² (13.96 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water year 1976-79 (discontinued).

COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

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)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)
JAN 10...	1024	70	3	12	9.8	140	79	7.3	7.6	67
FEB 07...	1035	55	0	9.4	7.7	63	70	3.7	2.5	81
MAR 14...	1110	64	12	12	8.3	17	36	.9	1.4	52
MAY 02...	1105	70	1	12	9.6	32	49	1.7	1.8	69

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, 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)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
JAN 10...	28	180	5.2	56	515	488	.70	1.6	1800	640
FEB 07...	19	68	2.8	45	276	272	.38	.62	2800	180
MAR 14...	15	16	.6	32	136	140	.19	1.2	570	80
MAY 02...	15	30	1.3	39	164	186	.22	.54	1400	80

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

NAPA RIVER BASIN--Continued
11455865 BLOSSOM CREEK NEAR CALISTOGA, CA

LOCATION.--Lat 38°35'36", long 122°36'47", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on left bank at upstream side of private road bridge, 1.1 mi (1.8 km) upstream from mouth, and 2.2 mi (3.5 km) northwest of Calistoga.

DRAINAGE AREA.--2.01 mi² (5.21 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water year 1976-79 (discontinued).

COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

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)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	
FEB 07...	1005	48	12	9.3	5.9	10	30	.6	2.1	36	
MAR 14...	1020	55	20	11	6.7	9.2	26	.5	1.7	35	
MAY 02...	1030	67	22	12	9.0	9.5	23	.5	1.7	45	
DATE	TIME	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	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)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
FEB 07...	24		8.7	.0	47	135	132	.18	.72	30	210
MAR 14...	21		6.1	.0	41	124	125	.17	1.5	30	400
MAY 02...	22		8.3	.1	41	129	134	.18	.69	40	240

11455880 GARNETT CREEK NEAR CALISTOGA, CA

LOCATION.--Lat 38°35'36", long 122°35'26", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on right bank at upstream side of bridge on Greenwood Avenue, 0.6 mi (1.0 km) upstream from mouth, and 1.2 mi (1.9 km) northwest of Calistoga.

DRAINAGE AREA.--7.66 mi² (19.84 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water year 1976-79 (discontinued).

COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

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)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	
NOV 01...	1120	100	--	27	9.1	16	24	.7	2.0	110	
JAN 10...	1000	80	11	21	6.7	16	30	.8	1.6	69	
FEB 07...	1030	46	17	12	4.0	7.3	25	.5	1.1	29	
MAR 14...	1050	49	12	13	4.0	7.8	25	.5	1.3	37	
MAY 02...	1125	53	17	14	4.3	7.6	23	.5	1.4	36	
DATE	TIME	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	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)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 01...	5.5		20	.1	39	--	--	--	.01	330	20
JAN 10...	13		28	.1	34	169	163	.23	.15	430	60
FEB 07...	19		6.6	.1	34	111	107	.15	1.1	80	30
MAR 14...	17		5.1	.1	33	106	109	.14	1.3	60	30
MAY 02...	21		5.0	.1	30	101	108	.14	.59	70	30

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

NAPA RIVER BASIN--Continued
11455890 CYRUS CREEK AT CALISTOGA, CA

LOCATION.--Lat 38°34'51", long 122°35'38", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on right bank at downstream side of bridge on State Highway 128, 0.5 mi (0.8 km) upstream from mouth, (1.3 km) west of Calistoga.

DRAINAGE AREA.--3.03 mi² (7.85 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water year 1976-79 (discontinued).

COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	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)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)
FEB 07...	0930	28	1	6.4	2.8	10	41	.8	2.7	27
MAR 14...	1000	27	0	6.5	2.5	9.3	40	.8	2.7	27
MAY 02...	1005	23	0	5.4	2.4	9.8	44	.9	2.8	30

DATE	TIME	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	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)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
FEB 07...	10	8.0	.1	46	104	106	.14	.86	50	130	
MAR 14...	6.0	5.4	.0	45	106	98	.14	.94	50	110	
MAY 02...	6.9	5.3	.1	40	93	91	.13	.03	60	380	

11455940 NAPA RIVER AT DEER PARK ROAD, NEAR ST. HELENA, CA

LOCATION.--Lat 38°31'23", long 122°28'42", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, at downstream side of Deer Park Road bridge, 1.5 mi (2.4 km) north of St. Helena.

DRAINAGE AREA.--63.0 mi² (163.2 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water year 1978-79 (discontinued).

COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	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)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)
JAN 10...	0845	62	18	14	6.6	48	61	2.7	4.3	44
FEB 07...	0845	51	10	11	5.6	27	52	1.7	2.5	41
MAR 14...	0845	52	12	12	5.3	16	39	1.0	2.1	40
MAY 02...	0900	57	9	13	6.0	20	42	1.2	2.6	48

DATE	TIME	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	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)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
JAN 10...	34	61	1.1	35	236	237	.32	1.0	1800	150	
FEB 07...	27	26	.6	42	184	174	.25	1.6	660	60	
MAR 14...	17	13	.2	40	137	138	.19	1.9	270	70	
MAY 02...	19	19	.4	42	155	156	.21	.97	490	110	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

NAPA RIVER BASIN--Continued
11458050 NAPA RIVER AT NAPA, CA

LOCATION.--Lat 38°19'30", long 122°17'29", in Napa Grant, Napa County, Hydrologic Unit 18050002, on right bank 10 ft (3 m) downstream from West Trancas Road bridge in town of Napa and 0.1 mi (0.2 km) downstream from small right-bank tributary.
DRAINAGE AREA.--234 mi² (606 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976-79 (discontinued).
COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	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)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)	
JAN 10...	0730	110	32	21	14	26	33	1.1	3.2	78	
FEB 07...	0735	110	26	21	15	20	27	.8	2.0	88	
MAR 14...	0735	110	26	20	15	15	22	.6	1.8	86	
MAY 02...	0750	130	17	23	17	18	23	.7	2.2	110	
DATE	TIME	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	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, DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
JAN 10...	36	35	.2	24	214	213	.29	1.3	610	120	
FEB 07...	35	18	.2	32	234	208	.32	2.7	360	20	
MAR 14...	27	11	.2	28	179	180	.24	2.2	180	20	
MAY 02...	27	16	.2	29	192	207	.26	1.8	270	30	

11458310 NAPA RIVER AT THIRD STREET, AT NAPA, CA

LOCATION.--Lat 38°17'54", long 122°16'58", in Entre Napa Grant, Napa County, Hydrologic Unit 18050002, on right bank at upstream side of Third Street bridge in Napa, 0.1 mi (0.2 km) downstream from Napa Creek.
DRAINAGE AREA.--283 mi² (733 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976-79 (discontinued).
COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	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)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)	
JAN 10...	0704	240	180	27	43	290	70	8.1	16	67	
FEB 07...	0715	120	32	20	16	39	42	1.6	2.9	84	
MAR 14...	0715	110	15	19	15	17	25	.7	2.0	94	
MAY 02...	0725	130	25	22	17	23	28	.9	2.5	100	
DATE	TIME	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	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, DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
JAN 10...	85	500	.2	20	1120	1030	1.52	1.6	400	120	
FEB 07...	37	52	.2	32	270	261	.37	2.6	280	30	
MAR 14...	28	15	.1	28	185	190	.25	2.1	180	20	
MAY 02...	29	24	.2	27	207	211	.28	1.4	280	40	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

RUSSIAN RIVER BASIN
DRY CREEK NEAR ASTI, CA

LOCATION.--Lat 38°43'46", long 123°02'17", in SE¼NE¼ sec.11, T10 N., R.11 W., Sonoma County, Hydrologic Unit 18010110, at upstream side of Rockpile Road bridge, 4.1 mi (6.6 km) southwest of Asti.

DRAINAGE AREA.--92.3 mi² (239.1 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1974 to current year.

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CAC03)	HARDNESS, NONCARBONATE (MG/L CAC03)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
JAN 16...	1235	308	172	7.4	9.5	31	11.0	66	9	14	7.5	8.0
MAR 13...	1055	106	192	8.4	12.5	.55	10.8	98	4	23	9.8	9.5
JUN 13...	1250	8.6	248	8.7	24.5	1.2	11.0	110	0	25	12	13
JUL 11...	1515	3.1	245	8.4	26.0	1.1	11.3	100	4	22	12	13

DATE	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CAC03)	SULFATE DISSOLVED (MG/L AS S04)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS S102)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)
JAN 16...	21	.4	.6	57	12	5.3	.1	15	98	.13	81.5	.35
MAR 13...	17	.4	.6	94	13	4.8	.2	15	132	.18	37.8	.02
JUN 13...	20	.5	1.2	120	20	6.3	.2	8.4	158	.21	3.67	.03
JUL 11...	21	.6	1.2	100	21	4.3	.2	13	147	.20	1.23	.03

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)
JAN 16...	.33	.04	.00	.40	.34	.44	.34	.79	.08	.01	4.8	.3
MAR 13...	.03	.01	.02	.11	.08	.12	.10	.14	.04	.01	1.1	.5
JUN 13...	.00	.03	.00	.37	.44	.40	.44	.43	.02	.00	4.8	.3
JUL 11...	.00	.01	.01	--	--	--	--	--	.08	.07	2.0	--

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, FM BOTTOM MATERIAL (UG/G AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)
JAN 16...	1	1	0	200	0	<1	0	0	0	20	6	2
MAR 13...	1	1	3	200	0	0	0	10	0	24	4	0
JUN 13...	1	1	4	390	0	1	0	0	0	20	8	0
JUL 11...	1	0	4	480	0	1	0	0	0	36	3	0

DATE	COPPER, RECOVER. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOVER. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOVER. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY FM BOTTOM MATERIAL (UG/G AS HG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOVER. FM BOTTOM MATERIAL (UG/G AS ZN)
JAN 16...	13	10	2	1	0	280	.0	.0	.03	10	<3	20
MAR 13...	12	20	11	0	0	200	.0	.0	.10	10	0	17
JUN 13...	10	0	9	0	0	200	.0	.0	.02	20	20	16
JUL 11...	20	10	4	0	10	480	.0	.0	.30	20	<3	40

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

RUSSIAN RIVER BASIN--Continued
WARM SPRINGS CREEK ABOVE LITTLE WARM SPRINGS CREEK, AT SKAGGS SPRINGS, CA

LOCATION.--Lat 38°41'42", long 123°01'39", in SW¼SE¼ sec.24, T.10 N., R.11 W., Sonoma County, Hydrologic Unit 18010110, 200 ft (61m) upstream from Little Warm Springs Creek, 0.1 mi (0.2 km) northwest of Skaggs Springs.
DRAINAGE AREA.--30.7 mi² (79.5 km²).
PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1974 to current year.

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	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)
JAN 17...	1100	94	152	7.0	7.0	62	11.6	63	9	14	6.7	6.4
MAR 13...	1430	46	179	8.5	12.0	.90	10.8	80	14	19	7.9	7.6
JUN 13...	1500	5.7	219	8.8	26.0	1.9	10.5	100	9	24	10	10
JUL 11...	1220	2.3	230	7.9	23.5	1.3	8.7	100	3	23	11	12

DATE	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO3)	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, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)
JAN 17...	18	.4	.5	54	12	4.6	.1	16	94	.13	23.9	.16
MAR 13...	17	.4	.5	66	17	4.0	.2	17	113	.15	14.0	.00
JUN 13...	18	.4	1.0	92	18	4.4	.1	11	134	.18	2.06	.01
JUL 11...	20	.5	.9	100	17	3.3	.2	17	145	.20	.90	.02

DATE	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	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, ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)
JAN 17...	.16	.06	.00	.09	.10	.15	.10	.31	.10	.01	1.8	.6
MAR 13...	.01	.01	.02	.10	.06	.11	.08	.11	.03	.01	1.2	.2
JUN 13...	.00	.02	.00	.41	.30	.43	.30	.44	.02	.00	3.4	.2
JUL 11...	.00	.01	.00	--	--	--	--	--	.01	--	1.5	--

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS Cd)	CADMIUM DIS-SOLVED (UG/L AS Cd)	CADMIUM FM BOTTOM MATERIAL (UG/G AS Cd)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS Cr)	CHROMIUM, DIS-SOLVED (UG/L AS Cr)	CHROMIUM, FM BOTTOM MATERIAL (UG/G AS Cr)	COPPER, TOTAL RECOVERABLE (UG/L AS Cu)	COPPER, DIS-SOLVED (UG/L AS Cu)
JAN 17...	0	1	0	70	0	<1	0	10	0	20	7	2
MAR 13...	0	0	7	80	0	0	0	0	0	24	4	0
JUN 13...	2	1	4	130	1	1	0	10	0	16	5	0
JUL 11...	1	0	5	230	0	1	0	0	0	36	43	0

DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS Cu)	IRON, DIS-SOLVED (UG/L AS Fe)	LEAD, TOTAL RECOVERABLE (UG/L AS Pb)	LEAD, DIS-SOLVED (UG/L AS Pb)	LEAD, FM BOTTOM MATERIAL (UG/G AS Pb)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS Hg)	MERCURY DIS-SOLVED (UG/L AS Hg)	MERCURY FM BOTTOM MATERIAL (UG/G AS Hg)	ZINC, TOTAL RECOVERABLE (UG/L AS Zn)	ZINC, DIS-SOLVED (UG/L AS Zn)	ZINC, FM BOTTOM MATERIAL (UG/G AS Zn)
JAN 17...	13	10	3	1	0	440	.0	.0	.04	20	<3	20
MAR 13...	16	10	9	0	0	390	.0	.0	.20	10	0	27
JUN 13...	6	10	35	0	0	150	.0	.0	.03	30	10	14
JUL 11...	14	10	5	0	0	350	.0	.1	.40	60	<3	36

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

RUSSIAN RIVER BASIN--Continued
LITTLE WARM SPRINGS CREEK AT SKAGGS SPRINGS, CA

LOCATION.--Lat 38°41'41", long 123°01'34", in SW¼SE¼ sec.24, T.10 N., R.11 W., Sonoma County, Hydrologic Unit 18010110, at downstream side of Skaggs Springs Road bridge at Skaggs Springs.

DRAINAGE AREA.--1.92 mi² (4.97 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1974 to current year.

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	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)
JAN 17...	1120	3.1	301	7.1	9.0	8.7	10.8	84	0	18	9.5	35
MAR 13...	1500	1.9	320	8.6	13.5	7.0	10.7	98	0	23	9.8	39
JUN 13...	1550	.13	846	8.2	27.5	1.7	9.0	110	0	25	12	160
JUL 11...	1140	.11	1470	7.9	23.0	2.5	9.0	110	0	24	12	320
DATE	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO3)	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, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)
JAN 17...	47	1.7	1.6	130	18	6.9	.4	17	188	.26	1.58	.23
MAR 13...	46	1.7	1.8	150	16	6.6	.5	17	207	.28	1.06	.00
JUN 13...	74	6.6	6.1	400	23	15	1.6	27	524	.71	.18	.05
JUL 11...	85	13	11	770	20	23	3.1	44	954	1.30	.28	.15
DATE	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	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, ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)
JAN 17...	.22	.02	.02	.57	.23	.59	.25	.82	.06	.01	2.3	.3
MAR 13...	.01	.01	.03	.12	.08	.13	.11	.13	.03	.01	1.3	.2
JUN 13...	.03	.02	.00	.47	.38	.49	.38	.54	.06	.00	6.3	.2
JUL 11...	.13	.03	.00	.11	.17	.14	.17	.29	--	.11	12	--
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DIS-SOLVED (UG/L AS CR)	CHROMIUM, FM BOTTOM MATERIAL (UG/G AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)
JAN 17...	3	3	0	2500	0	<1	0	0	0	20	5	2
MAR 13...	3	3	11	3000	0	0	0	0	0	20	4	0
JUN 13...	12	12	7	14000	1	1	0	10	0	12	26	0
JUL 11...	21	19	9	33000	1	1	0	0	0	30	16	0
DATE	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PH)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY FM BOTTOM MATERIAL (UG/G AS HG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
JAN 17...	16	70	15	1	10	360	.0	.0	.40	10	<3	30
MAR 13...	16	10	7	0	0	420	.0	.0	.10	10	10	30
JUN 13...	9	20	16	5	0	290	.0	.0	.16	40	10	24
JUL 11...	17	50	5	0	10	470	.1	.0	5.5	30	<3	44

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

REDWOOD CREEK BASIN
11482110 LACKS CREEK NEAR ORICK, CALOCATION.--Lat 41°03'39", long 123°51'57", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank
50 ft (15 m) upstream from private road bridge, 0.3 mi (0.5 km) upstream from mouth, and 19 mi (31 km)
southeast of Orick.DRAINAGE AREA.--17.0 mi² (44.0 km²).

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.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN						
09...	1330	8.0	19	8	.41	80
10...	1320	9.0	180	619	301	84
11...	1300	10.5	79	180	38	86
12...	1255	9.5	380	698	716	47
14...	1200	8.0	160	79	34	--
FEB						
06...	1200	8.5	26	8	.56	--
07...	1200	10.0	17	6	.28	--
08...	1200	8.0	13	7	.25	--
09...	1200	9.0	26	10	.70	--
10...	0800	9.0	32	13	1.1	--
10...	1200	10.0	32	19	1.6	--
10...	1800	9.0	47	120	15	--
11...	0800	9.0	160	159	69	--
11...	1200	10.0	180	152	74	--
11...	1800	10.0	160	78	34	--
12...	0800	9.0	200	589	318	--
12...	1200	10.0	220	644	383	--
12...	1800	10.0	245	595	394	--
13...	0800	8.0	415	699	783	--
13...	1315	9.5	866	1140	2670	60
13...	1800	9.0	685	734	1360	--
14...	0800	8.0	415	173	194	--
16...	1200	8.0	220	83	49	--
20...	2100	8.0	270	308	225	--
20...	2400	8.0	295	318	253	--
22...	1800	8.0	295	108	86	--
22...	2400	7.0	320	116	100	--
23...	0800	6.0	350	138	130	--
23...	1200	7.0	350	134	127	--
23...	1800	7.0	380	310	318	--
23...	2400	8.0	350	165	156	--
24...	0800	9.0	320	61	53	--
24...	1200	9.0	270	55	40	--
24...	1800	10.0	245	43	28	--
25...	0800	8.0	200	35	19	--
MAR						
01...	1330	8.5	258	122	85	66
01...	1800	8.0	160	77	33	--
02...	1300	8.0	180	51	25	--
02...	2200	7.0	200	93	50	--
03...	1300	10.0	245	74	49	--
03...	1800	10.0	245	75	50	--
03...	2300	9.0	245	77	51	--
04...	0800	10.0	200	42	23	--
04...	1300	11.0	180	34	17	--
05...	0800	13.0	140	28	11	--
05...	1300	14.0	140	26	9.8	--
05...	2000	14.0	120	27	8.7	--
07...	1200	14.0	79	17	3.6	--
08...	1200	15.0	68	10	1.8	--
09...	1200	15.0	57	14	2.2	--
15...	0800	9.0	39	12	1.3	--
15...	1110	10.0	41	9	1.0	--
15...	1200	10.0	39	15	1.6	--
15...	1800	10.0	39	15	1.6	--
15...	2200	9.0	39	18	1.9	--
16...	0800	9.0	39	18	1.9	--
16...	1200	10.0	39	18	1.9	--
16...	2200	9.0	39	20	2.1	--
17...	1800	10.0	39	3	.32	--
17...	2300	9.0	39	6	.63	--
18...	1200	11.0	47	5	.63	--
18...	1800	11.0	47	6	.76	--
18...	2300	10.0	47	7	.89	--
19...	1400	12.0	39	5	.53	--
26...	0700	9.0	32	8	.69	--
26...	1200	10.0	32	7	.60	--
27...	0800	9.0	32	5	.43	--
28...	0800	10.0	32	5	.43	--
28...	1800	11.0	32	3	.26	--
APR						
10...	1800	11.0	47	19	2.4	--
11...	0800	9.0	57	16	2.5	--
11...	1800	10.0	57	16	2.5	--
12...	0800	9.0	68	19	3.5	--
12...	1800	10.0	68	16	2.9	--
13...	0800	10.0	68	8	1.5	--
14...	0800	9.0	68	9	1.7	--
14...	1800	10.0	57	7	1.1	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

REDWOOD CREEK BASIN--Continued
11482110 LACKS CREEK NEAR ORICK, CA--Continued

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)
APR					
15...	1300	11.0	47	8	1.0
16...	0800	10.0	90	82	20
16...	1200	11.0	105	87	25
16...	1800	11.0	120	144	47
16...	2200	10.0	120	70	23
17...	1200	11.0	160	48	21
17...	1800	11.0	160	38	16
17...	2000	9.0	160	28	12
18...	0800	8.0	140	22	8.3
MAY					
07...	1800	10.0	585	330	521
07...	2200	9.0	585	759	1200
08...	0700	9.0	455	240	295

DATE	TIME	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. 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												
12...	1255	22	27	32	38	44	47	52	57	64	80	95
FEB												
13...	1315	--	27	35	45	55	60	68	76	86	97	100

11482115 GARRETT CREEK NEAR ORICK, CA

LOCATION.--Lat 41°04'57", long 123°52'40", unsurveyed, Humboldt County, Hydrologic Unit 18010102, 500 ft (152 m) upstream from mouth, 18 mi (29 km) southeast of Orick.
DRAINAGE AREA.--3.97 mi² (10.28 km²).
PERIOD OF RECORD.--
SEDIMENT RECORDS: Water year 1979.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. % FINER THAN .062 MM
MAR						
15...	1305	10.0	10	24	.65	87

11482125 PANTHER CREEK NEAR ORICK, CA

LOCATION.--Lat 41°05'19", long 123°54'26", unsurveyed, Humboldt County, Hydrologic Unit 18010102, 300 ft (91 m) upstream from mouth, 16 mi (26 km) southeast of Orick.
DRAINAGE AREA.--6.07 mi² (15.72 km²).
PERIOD OF RECORD.--
SEDIMENT RECORDS: Water year 1979.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (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
JAN											
12...	1045	9.0	90	150	36	34	--	--	--	--	--
FEB											
13...	1110	9.0	125	369	125	25	28	35	48	71	100
14...	0950	8.5	75	73	15	40	--	--	--	--	--
26...	1205	--	96	111	29	27	--	--	--	--	--
MAY											
08...	1220	9.0	65	99	17	17	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

REDWOOD CREEK BASIN--Continued
11482130 COYOTE CREEK NEAR ORICK, CA

LOCATION.--Lat 41°07'03", long 123°54'34", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on left bank 300 ft (91 m) downstream from small left-bank tributary, 1,900 ft (579 m) upstream from mouth, and 15 mi (24 km) southeast of Orick.

DRAINAGE AREA.--7.78 mi² (20.15 km²).

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water year 1979.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
DEC												
11...	1425	8.5	30	41	3.3	95	--	--	--	--	--	--
JAN												
11...	1140	10.5	690	2360	4400	65	--	--	--	--	--	--
12...	1235	9.5	194	320	168	70	--	--	--	--	--	--
FEB												
13...	1210	9.0	380	879	902	57	--	--	--	--	--	--
14...	1110	7.5	133	130	47	72	--	--	--	--	--	--
26...	1315	9.0	153	105	43	--	71	78	84	92	96	100
MAY												
07...	1335	8.0	260	325	228	--	72	77	84	91	100	--
08...	1515	10.0	115	77	24	--	83	88	92	95	100	--

11482210 BRIDGE CREEK NEAR ORICK, CA

LOCATION.--Lat 41°11'32", long 123°58'52", unsurveyed, Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on left bank 400 ft (122 m) upstream from mouth, 7.7 mi (12.4 km) southeast of Orick.

DRAINAGE AREA.--11.6 mi² (30.0 km²).

PERIOD OF RECORD.--Water years 1973 to current year.

CHEMICAL ANALYSES: Water years 1973-78.

SEDIMENT RECORDS: Water years 1974-76, 1978-79.

REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies," Data Release Numbers 1 and 2.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
DEC												
01...	1130	9.0	35	32	3.0	76	--	--	--	--	--	--
JAN												
12...	1140	9.5	172	86	40	58	--	--	--	--	--	--
FEB												
13...	1325	9.0	322	302	263	52	--	--	--	--	--	--
26...	1215	8.5	203	61	33	49	--	--	--	--	--	--
MAY												
07...	1400	9.5	224	172	104	--	34	42	49	60	71	81

11482220 REDWOOD CREEK ABOVE HARRY WIER CREEK, NEAR ORICK, CA

LOCATION.--Lat 41°11'50", long 123°59'30", unsurveyed, Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on left bank 150 ft (46 m) upstream from Harry Wier Creek, 7.2 mi (11.6 km) southeast of Orick, and 14 mi (23 km) upstream from mouth.

DRAINAGE AREA.--202 mi² (523 km²).

PERIOD OF RECORD.--Water years 1973-76, 1978 to current year.

CHEMICAL ANALYSES: Water years 1973-76, 1978.

SEDIMENT RECORDS: Water years 1974-76, 1978 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.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	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
FEB								
28...	1220	9.0	5250	1540	21800	24	34	46
28...	1545	9.0	4790	1240	16000	22	33	43
DATE								
FEB								
28...		58	67	75	85	95	99	100
28...		55	63	71	82	94	99	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

REDWOOD CREEK BASIN--Continued
11482225 HARRY WIER CREEK NEAR ORICK, CA

LOCATION.--Lat 41°11'53", long 123°59'32", unsurveyed, Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on right bank 150 ft (46 m) upstream from mouth, 7.1 mi (11.4 km) southeast of Orick.

DRAINAGE AREA.--2.96 mi² (7.67 km²).

PERIOD OF RECORD.--Water years 1973 to current year.

CHEMICAL ANALYSES: Water years 1973-78.

SEDIMENT RECORDS: Water years 1973-76, 1978 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.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (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
DEC 01...	1010	9.0	15	36	1.5	87	--	--	--	--
JAN 11...	1610	10.5	79	154	33	86	90	95	100	--
12...	1250	10.0	45	60	7.3	70	--	--	--	--
FEB 13...	1610	9.5	85	100	23	80	--	--	--	--
26...	1410	9.0	56	61	9.2	83	90	94	97	100
MAY 07...	1550	10.5	63	145	25	79	87	93	99	100

11482250 MILLER CREEK NEAR ORICK, CA

LOCATION.--Lat 41°13'54", long 123°59'30", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on left bank 1.0 mi (1.6 km) upstream from mouth, 5.2 mi (8.4 km) southeast of Orick.

DRAINAGE AREA.--0.67 mi² (1.74 km²).

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water year 1979.

REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies," Data Release Numbers 1 and 2.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV 30...	1620	9.5	1.8	30	.15	96	--	--	--	--	--	--
JAN 11...	1200	--	19	160	8.2	78	--	--	--	--	--	--
11...	1305	10.5	19	150	7.7	84	--	--	--	--	--	--
12...	1440	10.0	13	40	1.4	85	--	--	--	--	--	--
15...	1150	--	5.2	10	.14	--	--	--	--	--	--	--
FEB 13...	1440	9.5	20	136	7.3	--	64	69	74	79	88	100
26...	1310	9.5	14	38	1.4	74	--	--	--	--	--	--
MAY 07...	1510	10.0	15	73	3.0	--	85	90	100	--	--	--

11482260 MILLER CREEK AT MOUTH, NEAR ORICK, CA

LOCATION.--Lat 41°13'46", long 124°00'36", in NE¼ sec.25, T.10 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on left bank 100 ft (30 m) upstream from mouth, 4.7 mi (7.6 km) southeast of Orick.

DRAINAGE AREA.--1.36 mi² (3.52 km²).

PERIOD OF RECORD.--Water years 1973 to current year.

CHEMICAL ANALYSES: Water years 1973-78.

SEDIMENT RECORDS: Water years 1974 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.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
DEC 01...	1040	9.5	8.6	26	.60	95	--	--	--	--
JAN 11...	1230	11.0	34	247	23	--	89	92	97	100
FEB 26...	1640	9.0	24	45	2.9	--	83	91	97	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

REDWOOD CREEK BASIN--Continued
11482261 REDWOOD CREEK NEAR ORICK, CA

LOCATION.--Lat 41°13'46", long 124°00'38", in NE¼ sec.25, T.10 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on right bank 80 ft (24 m) downstream from Miller Creek, 4.7 mi (7.6 km) southeast of Orick, and 10.1 mi (16.3 km) upstream from mouth.
DRAINAGE AREA.--218 mi² (565 km²).
PERIOD OF RECORD.--Water years 1978 to current year.
SEDIMENT RECORDS: Water years 1978 to current year.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SED- 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	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
FEB										
28...	1355	7.5	5060	1440	19700	23	32	43	56	65
28...	1655	7.5	4700	1040	13200	22	32	43	55	--
		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 .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
FEB										
28...	--	75	--	88	--	98	--	100	--	--
28...	64	--	71	--	83	--	95	--	99	100

11482330 HAYES CREEK NEAR ORICK, CA

LOCATION.--Lat 41°17'24", long 124°01'36", in SE¼SW¼ sec.35, T.11 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on right bank 500 ft (152 m) upstream from mouth, 1.7 (2.7 km) east of Orick.
DRAINAGE AREA.--0.58 mi² (1.50 km²).
PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973-78.
SEDIMENT RECORDS: Water years 1974-76, 1978 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.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SED- DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC						
05...	1215		8.0	1.8	16	.08
15...	1030		7.0	.53	7	.01
21...	1345		7.5	.44	4	.00
JAN						
11...	1315		11.5	7.5	254	5.1
11...	1610		9.5	8.3	229	5.1
FEB						
13...	1630		9.5	9.8	31	.82
20...	1320		8.5	4.7	20	.25
20...	1400		8.5	4.7	17	.22
26...	1520		9.5	9.2	34	.84
27...	1315		9.5	8.2	20	.44
MAY						
08...	1115		9.0	7.2	20	.39

11482450 LOST MAN CREEK NEAR ORICK, CA

LOCATION.--Lat 41°19'06", long 123°59'15", in SE¼ sec.19, T.11 N., R.2 E., Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on right bank 100 ft (30 m) upstream from small right-bank tributary and 4.4 mi (7.1 km) northeast of Orick.
DRAINAGE AREA.--3.97 mi² (10.28 km²).
PERIOD OF RECORD.--Water years 1973-76, 1978 to current year.
CHEMICAL ANALYSES: Water years 1973-76, 1978.
SEDIMENT RECORDS: Water years 1974-76, 1978 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.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SED- DIS- CHARGE, SUS- PENDE (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
JAN											
11...	1110	9.5	155	201	84	73	78	83	87	93	100
FEB											
13...	1235	9.5	147	131	52	63	--	--	--	--	--
26...	1055	9.0	115	62	19	85	91	96	100	--	--
MAY											
07...	1135	9.0	86	102	24	83	91	96	100	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

SMITH RIVER BASIN
11530870 SISKIYOU FORK NEAR GASQUET, CA

LOCATION.--Lat 41°52'37", long 123°48'09", in SE¼SW¼ sec.11, T.17 N., R.3 E., Del Norte County, Hydrologic Unit 18010101, Six Rivers National Forest, 400 ft (122m) downstream from bridge, 0.7 mi (1.1 km) upstream from mouth, and 8.7 mi (14.0 km) northeast of Gasquet.

DRAINAGE AREA.--26.9 mi² (69.7 km²).

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water years 1978 to current year.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB 14...	1140	9.0	517	6	8.4	41
MAR 27...	1715	9.0	98	1	.26	50

11531000 MIDDLE FORK SMITH RIVER AT GASQUET, CA

LOCATION.--Lat 41°50'51", long 123°57'59", in NE¼SE¼ sec.20, T.17 N., R.2 E., Del Norte County, Hydrologic Unit 18010101, Six Rivers National Forest, at downstream side of bridge, at Gasquet, 0.1 mi (0.2 km) upstream from confluence with North Fork Smith River.

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water years 1978 to current year.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (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
JAN 11...	1710	10.0	7600	231	4740	44	52	61	74	91	100
FEB 14...	1440	9.0	1940	9	47	63	--	--	--	--	--
MAR 27...	1540	11.0	463	1	1.3	--	--	--	--	--	--

11531750 HURDYGURDY CREEK NEAR BIG FLAT, CA

LOCATION.--Lat 41°43'04", long 123°53'48", in SW¼SE¼ sec.1, T.15 N., R.2 E., Del Norte County, Hydrologic Unit 18010101, Six Rivers National Forest, at bridge, 4.0 mi (6.4 km) upstream from mouth, 2.3 mi (3.7 km) northeast of Big Flat, and 16 mi (26 km) southeast of Crescent City.

DRAINAGE AREA.--26.9 mi² (69.7 km²).

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water years 1978 to current year.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 11...	1350	10.0	1840	162	805	40
FEB 13...	1710	9.5	1030	21	58	62
MAR 28...	1240	9.0	91	9	2.2	47

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

SMITH RIVER BASIN--Continued
11531800 SOUTH FORK SMITH RIVER AT BIG FLAT, CA

LOCATION.--Lat 41°41'03", long 123°54'52", in SW¼NE¼ sec.23, T.15 N., R.2 E., Del Norte County, Hydrologic Unit 18010101, Six Rivers National Forest, 200 ft (61 m) downstream from Hurdygurdy Creek, 0.3 mi (0.5 km) southwest of Big Flat guard station, and 15.9 mi (25.6 km) southeast of Crescent City.

DRAINAGE AREA.--174 mi² (451 km²).

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water years 1978 to current year.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 12...	1515	9.0	5030	66	896	52
FEB 13...	1425	9.0	7290	105	2070	56
MAR 28...	1500	10.0	957	2	5.2	59

11531900 SOUTH FORK SMITH RIVER NEAR BIG FLAT, CA

LOCATION.--Lat 41°41'38", long 123°55'45", in NE¼SE¼ sec.15, T.15 N., R.2 E., Del Norte County, Hydrologic Unit 18010101, Six Rivers National Forest, at bridge, 0.6 mi (1.0 km) downstream from Goose Creek, 1.1 mi (1.8 km) northwest of Big Flat guard station, and 14.9 mi (24.0 km) southeast of Crescent City.

DRAINAGE AREA.--216 mi² (559 km²).

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water years 1978 to current year.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (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
JAN 12...	1205	9.0	7510	114	2310	33	38	44	53	69	90
FEB 14...	1525	9.5	8450	116	2650	46	--	--	--	--	--
MAR 28...	1535	11.0	1030	1	2.8	--	--	--	--	--	--

ALAMEDA COUNTY

SITE NUMBER 373150122003201 LOCAL NUMBER 005S001W06H04M

IN NEWARK. DRILLED AQUIFER-RECLAMATION WATER-TABLE WELL IN ALLUVIAL FAN DEPOSITS. DIAM 16 & 18 IN, DEPTH 279 FT, LOUVERS 199-271 FT. ALTITUDE OF LSD 26.0 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY. RECORDS AVAILABLE 1974 TO CURRENT YEAR. DWR BASIN 2-009.01.

HIGHEST WATER LEVEL 32.1 FEET BELOW LAND SURFACE DATUM MAY 03, 1974.

LOWEST WATER LEVEL 63.50 FEET BELOW LAND SURFACE DATUM SEP 29, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL						
APR 20, 1979	43.0 P	JUN 01, 1979	48.0	JUL 30, 1979	45.0	AUG 28, 1979	44.0

SITE NUMBER 373248121595001 LOCAL NUMBER 004S001W32C01M

IN FREMONT. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 250 FT, CASED TO 250 FT, PERFORATED 200-250 FT. ALTITUDE OF LSD 48 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY. RECORDS AVAILABLE 1958 TO CURRENT YEAR. DWR BASIN 2-009.01.

HIGHEST WATER LEVEL 46.7 FEET BELOW LAND SURFACE DATUM JAN 31, 1979.

LOWEST WATER LEVEL 113.5 FEET BELOW LAND SURFACE DATUM OCT 13, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL						
OCT 02, 1978	65.1	JAN 31, 1979	46.7	MAR 22, 1979	56.1	SEP 25, 1979	61.8

SITE NUMBER 373841122062001 LOCAL NUMBER 003S002W29F04M

IN HAYWARD. DUG IRRIGATION WATER-TABLE WELL IN ALLUVIAL FAN DEPOSITS OF QUATERNARY AGE. DIAM 10 IN, DEPTH 120 FT. MP 2.0 FT ABOVE LSD. ALTITUDE OF LSD 40 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY. RECORDS AVAILABLE 1959 TO CURRENT YEAR. DWR BASIN 2-009.01.

HIGHEST WATER LEVEL 12.9 FEET BELOW LAND SURFACE DATUM APR 09, 1974.

LOWEST WATER LEVEL 23.2 FEET BELOW LAND SURFACE DATUM NOV 03, 1961.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 26, 1979	16.1

SITE NUMBER 374049121463301 LOCAL NUMBER 003S002E08P02M

IN LIVERMORE. DRILLED MUNICIPAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 420 FT, CASED TO 412 FT. ALTITUDE OF LSD 465 0 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY. RECORDS AVAILABLE 1940 TO CURRENT YEAR. DWR BASIN 2-010.

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
OCT 1978	82.0	APR 1979	40.0

P PUMPING

CONTRA COSTA COUNTY

SITE NUMBER 374551121562701 LOCAL NUMBER 002S001W15B03M

4 MILES SOUTH OF DANVILLE. DRILLED UNUSED WATER-TABLE WELL. DIAM UNKNOWN, DEPTH UNKNOWN. MP IS AT LSD. ALTITUDE OF LSD 444 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR. DWR BASIN 2-007.

HIGHEST WATER LEVEL 34.12 FEET BELOW LAND SURFACE DATUM MAY 07, 1980.

LOWEST WATER LEVEL 39.28 FEET BELOW LAND SURFACE DATUM APR 19, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 19, 1979	39.28

SITE NUMBER 375625122032501 LOCAL NUMBER 001N002W11N01M

NEAR PLEASANT HILL. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 6 IN, DEPTH 81 FT, PERFORATED 54-78 FT. MP IS AT LSD. ALTITUDE OF LSD 63 FT. BEGINNING 1958, MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1958 TO 1979. DWR BASIN 2-006.

HIGHEST WATER LEVEL 8.9 FEET BELOW LAND SURFACE DATUM MAR 18, 1969.

LOWEST WATER LEVEL 20.9 FEET BELOW LAND SURFACE DATUM OCT 19, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11, 1978	13.4	APR 09, 1979	11.3

SITE NUMBER 380049122015301 LOCAL NUMBER 002N002W13P01

NEAR PORT CHICAGO. DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN, DEPTH 139 FT. ALTITUDE OF LSD 45 FT. MEASURED PERIODICALLY BY USGS. RECORDS AVAILABLE 1974 TO CURRENT YEAR. DWR BASIN 2-005.

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	DATE	WATER LEVEL
APR 18, 1979	32.28	SEP 25, 1979	29.48

SITE NUMBER 380129121543901 LOCAL NUMBER 002N001E18D01M

1 MILE SOUTHWEST OF PITTSBURG. DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN, DEPTH 125 FT. MP 0.6 FT ABOVE LSD. ALTITUDE OF LSD 25 FT. BEGINNING 1969, MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1969 TO CURRENT YEAR. DWR BASIN 2-004.

HIGHEST WATER LEVEL 19.7 FEET BELOW LAND SURFACE DATUM MAR 21, 1978.

LOWEST WATER LEVEL 25.2 FEET BELOW LAND SURFACE DATUM OCT 16, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 11, 1978	22.0

CONTRA COSTA COUNTY -- CONTINUED

SITE NUMBER 380131121543101 LOCAL NUMBER 002N001E18C01M

1 MILE SOUTHWEST OF PITTSBURG. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN. DEPTH 205 FT. MP 0.4 FT ABOVE LSD. ALTITUDE OF LSD 21 FT. RECORDS AVAILABLE 1971 TO CURRENT YEAR. DWR BASIN 2-004.

HIGHEST WATER LEVEL 17.80 FEET BELOW LAND SURFACE DATUM FEB 21, 1973.

LOWEST WATER LEVEL 19.57 FEET BELOW LAND SURFACE DATUM OCT 28, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 18, 1979	18.40 S	SEP 25, 1979	19.00 S

DEL NORTE COUNTY

SITE NUMBER 413043124020701 LOCAL NUMBER 013N001E15R01H

NEAR KLAMATH. DRILLED TEST WATER-TABLE WELL. DIAM UNKNOWN. DEPTH 200 FT. NO CASING INSTALLED. MP IS AT LSD. ALTITUDE OF LSD 50 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1979 TO CURRENT YEAR. DWR BASIN 3-014.

HIGHEST WATER LEVEL 12. FEET BELOW LAND SURFACE DATUM APR 09, 1979.

LOWEST WATER LEVEL 16.2 FEET BELOW LAND SURFACE DATUM MAR 07, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 09, 1979	12.

SITE NUMBER 414643124115601 LOCAL NUMBER 016N001W17K01H

ABOUT 1.5 MILES 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. BEGINNING 1953, MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953-1954, 1958 TO CURRENT YEAR. DWR BASIN 1-001.

HIGHEST WATER LEVEL 9.1 FEET BELOW LAND SURFACE DATUM APR 04, 1972.

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
NOV 08, 1978	22.0	APR 10, 1979	16.0

SITE NUMBER 415455124082901 LOCAL NUMBER 018N001W35B02H

NEAR SMITH RIVER. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 12 IN. DEPTH 55 FT. PERFORATIONS 40-55 FT. ALTITUDE OF LSD 90 FT. BEGINNING 1956 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1956 TO CURRENT YEAR. DWR BASIN 1-001.

HIGHEST WATER LEVEL 18.4 FEET BELOW LAND SURFACE DATUM NOV 28, 1956.

LOWEST WATER LEVEL 29.5 FEET BELOW LAND SURFACE DATUM APR 10, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 10, 1979	29.5

S NEARBY, PUMPING

HUMBOLDT COUNTY

SITE NUMBER 401843124170301 LOCAL NUMBER 002S002W03E01H

NEAR PETROLIA. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF THE COAST RANGES PLIOCENE-HOLOCENE AGE. DIAM 8 IN, DEPTH 50 FT. ALTITUDE OF LSD 100 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR. DWR BASIN 1-028.

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	DATE	WATER LEVEL
APR 09, 1979	14.21 S	SEP 18, 1979	16.14

SITE NUMBER 401928124171801 LOCAL NUMBER 002S002W09H01H

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. DWR BASIN 1-028.

HIGHEST WATER LEVEL 5.04 FEET BELOW LAND SURFACE DATUM MAR 04, 1980.

LOWEST WATER LEVEL 13.08 FEET BELOW LAND SURFACE DATUM SEP 18, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 09, 1979	8.00 S	SEP 18, 1979	13.08

SITE NUMBER 403550124093101 LOCAL NUMBER 003N001W34J01H

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 AND 285-365 FT. MP 1.0 FT ABOVE LSD. ALTITUDE OF LSD 53 FT. BEGINNING 1951, MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951 TO 1953, 1958 TO CURRENT YEAR. DWR BASIN 1-010.

HIGHEST WATER LEVEL 28. FEET BELOW LAND SURFACE DATUM APR 11, 1967.

LOWEST WATER LEVEL 37.4 FEET BELOW LAND SURFACE DATUM NOV 08, 1952.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 09, 1978	36.3	APR 11, 1979	33.4

SITE NUMBER 403634124135701 LOCAL NUMBER 003N001W30N01H

NEAR FORTUNA. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 14 IN, DEPTH 48 FT. ALTITUDE OF LSD 19 FT. BEGINNING 1957, MEASUREMENTS FURNISHED BY CALIF. DEPT. OF WATER RESOURCES. RECORDS AVAILABLE 1973 TO CURRENT YEAR. DWR BASIN 1-010.

HIGHEST WATER LEVEL 10.2 FEET BELOW LAND SURFACE DATUM APR 16, 1974.

LOWEST WATER LEVEL 17.9 FEET BELOW LAND SURFACE DATUM SEP 21, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 09, 1978	17.2	APR 11, 1979	13.7

S NEARBY, PUMPING

HUMBOLDT COUNTY -- CONTINUED

SITE NUMBER 404353124105001 LOCAL NUMBER 004N001W16H01H

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. DWR BASIN 1-009.

HIGHEST WATER LEVEL 21.5 FEET BELOW LAND SURFACE DATUM APR 10, 1979.

LOWEST WATER LEVEL 28.5 FEET BELOW LAND SURFACE DATUM APR 08, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 10, 1979	21.5

SITE NUMBER 405302124063201 LOCAL NUMBER 006N001E19Q01H

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 CALIF. DEPT. OF WATER RESOURCES. RECORDS AVAILABLE 1958 TO CURRENT YEAR. DWR BASIN 1-008.

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
NOV 09, 1978	14.8	APR 10, 1979	11.0

SITE NUMBER 410927124074701 LOCAL NUMBER 009N001W24C01H

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. BEGINNING 1978 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1978 TO CURRENT YEAR. DWR BASIN 1-027.

HIGHEST WATER LEVEL 24.4 FEET BELOW LAND SURFACE DATUM SEP 21, 1978.

LOWEST WATER LEVEL 28.2 FEET BELOW LAND SURFACE DATUM NOV 05, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 09, 1979	26.

SITE NUMBER 411725124032001 LOCAL NUMBER 011N001E33R04H

NEAR ORICK. DRILLED DOMESTIC WATER-TABLE WELL IN RIVER CHANNEL DEPOSITS OF HOLOCENE AGE. DIAM 8 IN, DEPTH 48 FT. MP 5.0 FT ABOVE LSD. ALTITUDE OF LSD 32.0 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1978 TO CURRENT YEAR. DWR BASIN 1-026.

HIGHEST WATER LEVEL 11.5 FEET BELOW LAND SURFACE DATUM MAR 08, 1979.

LOWEST WATER LEVEL 13.9 FEET BELOW LAND SURFACE DATUM APR 09, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 08, 1979	11.5	APR 09, 1979	13.9

HUMBOLDT COUNTY -- CONTINUED

SITE NUMBER 412150124010301 LOCAL NUMBER 011N001E02R01H

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. BEGINNING 1978 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1978 TO CURRENT YEAR. DWR BASIN 1-025.

HIGHEST WATER LEVEL 12.0 FEET BELOW LAND SURFACE DATUM NOV 06, 1979.

LOWEST WATER LEVEL 13.1 FEET BELOW LAND SURFACE DATUM SEP 21, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 09, 1979	12.5

MENDOCINO COUNTY

SITE NUMBER 385455123420201 LOCAL NUMBER 012N017W12L01M

NEAR POINT ARENA. DRILLED DOMESTIC WATER-TABLE WELL. DIAM 6 IN, DEPTH 133 FT, CASSED 85 FT. ALTITUDE OF LSD 220 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR. DWR BASIN 1-020.

HIGHEST WATER LEVEL 6.09 FEET BELOW LAND SURFACE DATUM APR 10, 1979.

LOWEST WATER LEVEL 24.45 FEET BELOW LAND SURFACE DATUM SEP 19, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 10, 1979	6.09 S	SEP 19, 1979	24.45 S

SITE NUMBER 385645123405701 LOCAL NUMBER 013N016W31M01M

NEAR POINT ARENA. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF THE COAST RANGE OF PLIOCENE-HOLOCENE AGE. DIAM 18 IN, DEPTH 33 FT. ALTITUDE OF LSD 155 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR. DWR BASIN 1-020.

HIGHEST WATER LEVEL 1.66 FEET BELOW LAND SURFACE DATUM APR 10, 1979.

LOWEST WATER LEVEL 22.23 FEET BELOW LAND SURFACE DATUM SEP 19, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 10, 1979	1.66 S	SEP 19, 1979	22.23

SITE NUMBER 385800123064801 LOCAL NUMBER 013N011W19P01M

ABOUT 0.4 MILES SOUTH OF HOPLAND. DUG AND DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE. DIAM 12 IN, DEPTH 44 FT, PERFORATED 24-44 FT. ALTITUDE OF LSD 488 FT. BEGINNING 1953 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953-1955, 1958 TO CURRENT YEAR. DWR BASIN 2-016.

HIGHEST WATER LEVEL 1.3 FEET BELOW LAND SURFACE DATUM FEB 09, 1960.

LOWEST WATER LEVEL 21.04 FEET BELOW LAND SURFACE DATUM OCT 02, 1958.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 1978	18.6	APR 03, 1979	9.

S NEARBY, PUMPING

MENDOCINO COUNTY -- CONTINUED

SITE NUMBER 385917123070401 LOCAL NUMBER 013N011W18E01M

1.2 MILES 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. DWR BASIN 2-016.

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						
OCT 04, 1978	13.1	APR 03, 1979	10.2	APR 09, 1979	10.87	SEP 18, 1979	12.98

SITE NUMBER 391026123123201 LOCAL NUMBER 015N012W08L01M

1 MILE NORTH OF UKIAH. DRILLED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM 12 IN, DEPTH 62 FT. MP 1.0 FT ABOVE LSD. ALTITUDE OF LSD 640 FT. BEGINNING 1951, MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951-1955, 1958 TO CURRENT YEAR. DWR BASIN 2-015.

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 03, 1978	25.	APR 03, 1979	17.6

SITE NUMBER 391836123475101 LOCAL NUMBER 017N017W30F03M

NEAR MENDOCINO. DRILLED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM 6 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 160 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR. DWR BASIN 1-045.

HIGHEST WATER LEVEL 19.46 FEET BELOW LAND SURFACE DATUM APR 10, 1979.

LOWEST WATER LEVEL 35.33 FEET BELOW LAND SURFACE DATUM SEP 19, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 10, 1979	19.46	SEP 19, 1979	35.33

SITE NUMBER 391944123065701 LOCAL NUMBER 017N011W18J01M

ABOUT 2.5 MILES SOUTHEAST OF POTTER VALLEY. DRILLED DOMESTIC ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN, DEPTH 36 FT. ALTITUDE OF LSD 955 FT. BEGINNING 1951 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951-1955, 1958 TO CURRENT YEAR. DWR BASIN 2-014.

HIGHEST WATER LEVEL -0.9 FEET BELOW 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	DATE	WATER LEVEL
OCT 03, 1978	1.6	APR 02, 1979	0.2

MENDOCINO COUNTY -- CONTINUED

SITE NUMBER 392403123485701 LOCAL NUMBER 018N018W25B02M

NEAR FORT BRAGG. DRILLED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM 6 IN, DEPTH 75 FT, PERFORATED 25-75 FT. MP IS 1.0 FT ABOVE LSD. ALTITUDE OF LSD 70 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR. DWR BASIN 1-021.

HIGHEST WATER LEVEL 4.32 FEET BELOW LAND SURFACE DATUM MAY 01, 1980.

LOWEST WATER LEVEL 10.64 FEET BELOW LAND SURFACE DATUM SEP 19, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 10, 1979	4.72	S	SEP 19, 1979	10.64	S

SITE NUMBER 392459123210301 LOCAL NUMBER 018N013W18E01M

IN WILLITS. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE AND CONTINENTAL DEPOSITS OF PLIOCENE AND PLEISTOCENE AGE. DIAM 12 IN, DEPTH 493 FT. MP 1.6 FT ABOVE LSD. ALTITUDE OF LSD 1,350 FT. BEGINNING 1958 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1958 TO CURRENT YEAR. DWR BASIN 1-013.

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 11, 1978	24.2		APR 11, 1979	25.6	

SITE NUMBER 392830123474501 LOCAL NUMBER 019N017W30Q01M

NEAR FORT BRAGG. DRILLED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM 8 IN, DEPTH 25 FT, PERFORATED 16-25 FT. ALTITUDE OF LSD 68 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR. DWR BASIN 1-021.

HIGHEST WATER LEVEL 1.06 FEET BELOW LAND SURFACE DATUM APR 10, 1979.

LOWEST WATER LEVEL 6.29 FEET BELOW LAND SURFACE DATUM SEP 19, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 10, 1979	1.06	S	SEP 19, 1979	6.29	S

SITE NUMBER 393043123454101 LOCAL NUMBER 019N017W16F04M

NEAR INGLENOOK. DRILLED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM 8 IN, DEPTH 59 FT, PERFORATED 20-59 FT. ALTITUDE 120 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR. DWR BASIN 1-021.

HIGHEST WATER LEVEL 12.00 FEET BELOW LAND SURFACE DATUM APR 10, 1979.

LOWEST WATER LEVEL 15.4 FEET BELOW LAND SURFACE DATUM SEP 14, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 10, 1979	12.00	S	SEP 19, 1979	15.30	S

S NEARBY, PUMPING

MENDOCINO COUNTY -- CONTINUED

SITE NUMBER 393837123281801 LOCAL NUMBER 021N014W30M01M

ABOUT 2 MILES 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 1,688 FT. BEGINNING 1952 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1952-1955, 1958 TO CURRENT YEAR. DWR BASIN 1-012.

HIGHEST WATER LEVEL 2.68 FEET BELOW LAND SURFACE DATUM APR 23, 1963.

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
NOV 09, 1978	16.8	APR 11, 1979	5.5

SITE NUMBER 394642123151501 LOCAL NUMBER 022N013W12K01M

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 1,396 FT. BEGINNING 1956 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1957 TO 1958, 1979 TO CURRENT YEAR. DWR BASIN 1-011.

HIGHEST WATER LEVEL 2.4 FEET BELOW LAND SURFACE DATUM APR 02, 1980.

LOWEST WATER LEVEL 15.7 FEET BELOW LAND SURFACE DATUM OCT 16, 1957.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 12, 1979	9.

SITE NUMBER 394730123141701 LOCAL NUMBER 022N012W06L03M

NEAR COVELO. DRILLED OBSERVATION WATER-TABLE WELL IN CONTINENTAL DEPOSITS OF PLEISTOCENE-PLIOCENE AGE. DIAM 4 IN, DEPTH 660 FT, PERFORATIONS 137-660 FT. ALTITUDE OF LSD 1,370 FT. BEGINNING 1960 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1960 TO CURRENT YEAR. DWR BASIN 1-011.

HIGHEST WATER LEVEL -7.2 FEET BELOW LAND SURFACE DATUM FEB 07, 1961.

LOWEST WATER LEVEL 24.2 FEET BELOW LAND SURFACE DATUM SEP 15, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 10, 1978	2.1	APR 12, 1979	7.0

MONTEREY COUNTY

SITE NUMBER 355732121041501 LOCAL NUMBER 023S008E02N01M

0.75 MILES NORTH OF LOCKWOOD. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 272 FT, PERFORATIONS 70-272 FT. MP IS AT LSD. ALTITUDE OF LSD 1040 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY. RECORDS AVAILABLE 1962 TO CURRENT YEAR. DWR BASIN 3-006.

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
NOV 28, 1978	111.1

SITE NUMBER 360036120535301 LOCAL NUMBER 022S010E16P01M

1 MILE SOUTH OF SAN ARDO. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 16 IN, DEPTH 178 FT, PERFORATIONS 40-178 FT. ALTITUDE OF LSD 425 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY. RECORDS AVAILABLE 1931 TO CURRENT YEAR. DWR BASIN 3-004.

HIGHEST WATER LEVEL 21.7 FEET BELOW LAND SURFACE DATUM FEB 25, 1952.

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	DATE	WATER LEVEL
NOV 15, 1978	23.5	AUG 1979	26.6	SEP 1979	26.8

SITE NUMBER 361714121114601 LOCAL NUMBER 019S007E10P01M

3.5 SOUTHEAST OF GREENFIELD. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 16 IN, DEPTH 245 FT, PERFORATIONS 90-116,124-150,156-180,210-238 FT. ALTITUDE OF LSD 315 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY. RECORDS AVAILABLE 1931 TO CURRENT YEAR. DWR BASIN 3-004.

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	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15, 1978	86.1	FEB	86.8	MAY	87.8	AUG	100.8
DEC 1978	85.5	MAR	85.9	JUN	88.7	SEP	102.7
JAN 1979	86.1	APR	86.1	JUL	95.9		

SITE NUMBER 362140121184501 LOCAL NUMBER 018S006E15H01M

SOUTH OF SOLEDAD. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 14 IN, DEPTH 288 FT, PERFORATIONS 104-239, 255-288 FT. ALTITUDE OF LSD 277 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY. RECORDS AVIALABLE 1931 TO CURRENT YEAR. DWR BASIN 3-004.

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	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15, 1978	108.9	JAN 1979	103.7	MAR	103.7	JUN	105.9
DEC 1978	104.9	FEB	104.1	APR	104.3		

MONTEREY COUNTY -- CONTINUED

SITE NUMBER 362150121182401 LOCAL NUMBER 018S006E15F01M

NEAR SOLEDAD. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH UNKNOWN. MP IS AT LSD. ALTITUDE OF LSD 215 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY. RECORDS AVAILABLE 1916 TO CURRENT YEAR. DWR BASIN 3-004.

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 30, 1978	30.5

SITE NUMBER 363136121491001 LOCAL NUMBER 016S001E23K01M

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. RECORDS AVAILABLE 1960 TO CURRENT YEAR. DWR BASIN 3-007.

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	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1978	18.1	JAN 02, 1979	21.5	MAY	21.1	SEP	23.0
NOV 01	26.7	FEB 02	19.7	JUN	21.9		
DEC 04	23.8	MAR 1979	18.9	JUL	23.1		
05	23.8	APR	20.9	AUG	18.7		

SITE NUMBER 363208121261301 LOCAL NUMBER 016S005E17R01M

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. RECORDS AVAILABLE 1916 TO CURRENT YEAR. DWR BASIN 3-004.

HIGHEST WATER LEVEL 88.9 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
NOV 30, 1978	113.5

SITE NUMBER 363216121545401 LOCAL NUMBER 016S001W13L01M

NEAR CARMEL. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN, DEPTH UNKNOWN. ALTITUDE OF LSD 17 FT. BEGINNING 1961 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1961 TO CURRENT YEAR. DWR BASIN 3-007.

HIGHEST WATER LEVEL 3.0 FEET BELOW LAND SURFACE DATUM JUN 01, 1980.

LOWEST WATER LEVEL 8.0 FEET BELOW LAND SURFACE DATUM DEC 20, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 04, 1978	6.4	FEB	3.9	APR	3.4	JUN	3.8
JAN 1979	5.9	MAR	3.8	MAY	3.6	AUG	5.8

MONTEREY COUNTY -- CONTINUED

SITE NUMBER 363544121495201 LOCAL NUMBER 0155001E26N02M

NEAR SEASIDE. DRILLED DOMESTIC WATER-TABLE WELL IN QUATERNARY SYSTEM. DIAM 8 IN, DEPTH 100 FT. HP 1.0 FT ABOVE LSD. ALTITUDE OF LSD 120 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY. RECORDS AVAILABLE 1960 TO CURRENT YEAR. DWR BASIN 3-004.

HIGHEST WATER LEVEL 52.3 FEET BELOW LAND SURFACE DATUM DEC 28, 1960.

LOWEST WATER LEVEL 67.0 FEET BELOW LAND SURFACE DATUM DEC 09, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
DEC 07, 1978	55.0

SITE NUMBER 363856121413701 LOCAL NUMBER 0155002E01Q01M

2 MILES 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. RECORDS AVAILABLE 1931 TO CURRENT YEAR. DWR BASIN 3-004.

HIGHEST WATER LEVEL 13.5 FEET BELOW LAND SURFACE DATUM FEB 24, 1932.

LOWEST WATER LEVEL 63.6 FEET BELOW LAND SURFACE DATUM AUG 28, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 1978	57.0	DEC 04, 1978	39.0	FEB	29.8	JUN	44.5
DEC	41.5	JAN 1979	33.3	MAY	42.9		

SITE NUMBER 364248121404701 LOCAL NUMBER 0145003E18J01M

NORTH OF SALINAS. DRILLED IRRIGATION WATER-TABLE WELL IN PASO ROBLES FORMATION OF PLEISTOCENE AGE. DIAM 16 IN, DEPTH 513 FT, PERFORATIONS 245-261, 418-434, 483-510 FT. ALTITUDE OF LSD 70 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY. RECORDS AVAILABLE 1931 TO CURRENT YEAR. DWR BASIN 3-004.

HIGHEST WATER LEVEL 39.4 FEET BELOW LAND SURFACE DATUM MAR 17, 1932.

LOWEST WATER LEVEL 92.8 FEET BELOW LAND SURFACE DATUM MAY 01, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
DEC 04, 1978	80.6

SITE NUMBER 364521121445301 LOCAL NUMBER 0135002E33R01M

NEAR CASTROVILLE. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 12 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 24.8 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY. RECORDS AVAILABLE 1944 TO CURRENT YEAR. DWR BASIN 3-004.

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	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 1978	33.0	DEC 06, 1978	32.6	FEB	22.1	MAY	33.5
DEC	31.2	JAN 1979	23.1	MAR	26.2	SEP	43.9

MONTEREY COUNTY -- CONTINUED

SITE NUMBER 364618121463701 LOCAL NUMBER 013S002E29M02M

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. DWR BASIN 3-004.

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
DEC 05, 1978	16.5

NAPA COUNTY

SITE NUMBER 382218122190101 LOCAL NUMBER 006N004W17A01M

ABOUT 4 MILES NORTH OF NAPA. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 250 FT. ALTITUDE OF LSD 67 FT. BEGINNING 1949 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1949 TO CURRENT YEAR. DWR BASIN 2-002.01.

HIGHEST WATER LEVEL 0.6 FEET BELOW LAND SURFACE DATUM FEB 21, 1969.

LOWEST WATER LEVEL 49.9 FEET BELOW LAND SURFACE DATUM MAR 11, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1978	13.9	APR 02, 1979	6.

SITE NUMBER 382743122233501 LOCAL NUMBER 007N005W15A01M

NEAR RUTHERFORD. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 355 FT. ALTITUDE OF LSD 143 FT. BEGINNING 1962 RECORDS FURNISHED BY NAPA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1934, 1963 TO CURRENT YEAR. DWR BASIN 2-002.01

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 10, 1978	18.0	APR 12, 1979	11.0

SITE NUMBER 383326122311801 LOCAL NUMBER 008N006W10Q01M

ABOUT 3.5 MILES 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. BEGINNING 1949 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1949 TO CURRENT YEAR. DWR BASIN 2-002.01.

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 03, 1978	9.2	APR 02, 1979	3.6

SAN BENITO COUNTY

SITE NUMBER 365407121251901 LOCAL NUMBER 012S005E09K01M

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. MP 1.1 FT ABOVE LSD. ALTITUDE OF LSD 213 FT. MEASUREMENTS FURNISHED BY COUNTY OF SAN BENITO. RECORDS AVAILABLE 1949 TO CURRENT YEAR DWR BASIN 3-003.

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	DATE	WATER LEVEL
OCT 01, 1978	116.9	MAR 1979	105.5

SITE NUMBER 365519121263501 LOCAL NUMBER 012S005E05G01M

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. MP IS 1.0 FT ABOVE LSD. ALTITUDE OF LSD 175 FT. MEASUREMENTS FURNISHED BY COUNTY OF SAN BENITO. RECORDS AVAILABLE 1960 TO CURRENT YEAR. DWR BASIN 3-003.

HIGHEST WATER LEVEL 82.3 FEET BELOW LAND SURFACE DATUM APR 01, 1960.

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 01, 1978	101.5	MAR 1979	91.

SAN LUIS OBISPO COUNTY

SITE NUMBER 350625120362501 LOCAL NUMBER 032S013E29N01M

0.5 MILES NORTH OF OCEANO. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 125 FT. ALTITUDE OF LSD 79 FT. MEASUREMENTS FURNISHED BY SAN LUIS OBISPO COUNTY. RECORDS AVAILABLE 1959 TO CURRENT YEAR. DWR BASIN 3-011.

HIGHEST WATER LEVEL 64.84 FEET BELOW LAND SURFACE DATUM FEB 26, 1980.

LOWEST WATER LEVEL 103.0 FEET BELOW LAND SURFACE DATUM NOV 10, 1965.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 04, 1978	69.6	APR 11, 1979	68.1

SITE NUMBER 351258120364501 LOCAL NUMBER 031S013E19H01M

6 MILES 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. RECORD AVAILABLE 1958 TO CURRENT YEAR. DWR BASIN 3-009.

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	DATE	WATER LEVEL
DEC 07, 1978	21.3	MAY 02, 1979	16.9

SAN LUIS OBISPO COUNTY -- CONTINUED

SITE NUMBER 351858120483201 LOCAL NUMBER 030S011E17H02M

1.3 MILES 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. DWR BASIN 3-008

HIGHEST WATER LEVEL 8.4 FEET BELOW LAND SURFACE DATUM APR 07, 1974.

LOWEST WATER LEVEL 22.8 FEET BELOW LAND SURFACE DATUM OCT 01, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 28, 1978	11.3	APR 24, 1979	11.3

SITE NUMBER 353738120262801 LOCAL NUMBER 026S014E35D01M

4 MILES 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 1965 TO CURRENT YEAR. DWR BASIN 3-004.06.

HIGHEST WATER LEVEL 79.2 FEET BELOW LAND SURFACE DATUM APR 15, 1963.

LOWEST WATER LEVEL 176.7 FEET BELOW LAND SURFACE DATUM JAN 07, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 06, 1978	120.4 P	APR 30, 1979	120.2

SITE NUMBER 354223120275901 LOCAL NUMBER 025S014E33Q01M

6 MILES NORTHWEST OF SHANDON. DRILLED STOCK WATER-TABLE WELL IN THE PASO ROBLES FORMATION OF PLEISTOCENE AGE. DEPTH 8 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 1228.8 FT. MEASUREMENTS FURNISHED BY SAN LUIS OBISPO COUNTY. RECORDS AVAILABLE 1967 TO CURRENT YEAR. DWR BASIN 3-004.06.

HIGHEST WATER LEVEL 274.4 FEET BELOW LAND SURFACE DATUM OCT 31, 1967.

LOWEST WATER LEVEL 291.3 FEET BELOW LAND SURFACE DATUM OCT 19, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 28, 1978	289.3	APR 19, 1979	287.2

P PUMPING

SAN MATEO COUNTY

SITE NUMBER 372706122254301 LOCAL NUMBER 0055005W32K01M

0.5 MILES 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. DWR BASIN 2-022.

HIGHEST WATER LEVEL 22.3 FEET BELOW LAND SURFACE DATUM FEB 20, 1962.

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 13, 1978	33.7	APR 04, 1979	33.0

SITE NUMBER 372722122100501 LOCAL NUMBER 0055003W34H01M

IN MENLO PARK. DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 & 16 IN, DEPTH 310 FT, CASED TO 290 FT. PERFORATED 180-200, 250-270 FT. MP 1.0 FT ABOVE LSD. ALTITUDE OF LSD 53 FT. RECORDS AVAILABLE 1977 TO CURRENT YEAR. DWR BASIN 2-009.

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
MAR 30, 1979	34.09 S

SITE NUMBER 372912122113301 LOCAL NUMBER 0055003W21G02M

NEAR REDWOOD CITY. DRILLED UNUSED ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN, DEPTH UNKNOWN ALTITUDE OF LSD 15 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR. DWR BASIN 2-009.

HIGHEST WATER LEVEL CANNOT BE DETERMINED BECAUSE OF SITE STATUS.

LOWEST WATER LEVEL CANNOT BE DETERMINED BECAUSE OF SITE STATUS.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 11, 1979	F

SITE NUMBER 373045122292801 LOCAL NUMBER 0055006W11E03M

5 MILES NORTHWEST OF HALF MOON BAY. DRILLED UNUSED WATER-TABLE WELL IN TERRACE DEPOSITS OF PLEISTOCENE AGE. DIAM 12 IN, DEPTH 92 FT, CASED TO 87 FT. PERFORATED 12-88 FT. ALTITUDE OF LSD 49 FT. RECORDS AVAILABLE 1972 TO CURRENT YEAR. DWR BASIN 2-022.

HIGHEST WATER LEVEL 17.46 FEET BELOW LAND SURFACE DATUM APR 18, 1979.

LOWEST WATER LEVEL 25.69 FEET BELOW LAND SURFACE DATUM OCT 02, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 18, 1979	17.46 S

S NEARBY, PUMPING

F FLOWING

SAN MATEO COUNTY -- CONTINUED

SITE NUMBER 373338122191301 LOCAL NUMBER 0045004W29B01M

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. DWR BASIN 2-009.

HIGHEST WATER LEVEL 24.01 FEET BELOW LAND SURFACE DATUM APR 18, 1979.

LOWEST WATER LEVEL 53.04 FEET BELOW LAND SURFACE DATUM MAY 08, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 18, 1979	24.01

SANTA CLARA COUNTY

SITE NUMBER 370048121344701 LOCAL NUMBER 011S004E06D01M

IN GILROY. DRILLED MUNICIPAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 14 IN, DEPTH 470 FT, PERFORATED 108-324,376-460 FT. ALTITUDE OF MP 208 FT. ALTITUDE OF LSD 211 FT. BEGINNING 1947 MEASUREMENTS FURNISHED BY THE CITY OF GILROY. RECORDS AVAILABLE 1972 TO CURRENT YEAR. DWR BASIN 3-003.

HIGHEST WATER LEVEL 45. FEET BELOW LAND SURFACE DATUM MAY 16, 1980.

LOWEST WATER LEVEL 126. FEET BELOW LAND SURFACE DATUM AUG 12, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL						
OCT 05, 1978	80.	NOV 09, 1978	75.	MAR 16, 1979	54.	AUG 15, 1979	84.
16	82.	16	74.	APR 19	55.	SEP 18	82.
19	80.	DEC 22	68.	MAY 1979	60.		
26	78.	JAN 19, 1979	64.	JUN 14, 1979	70.		
NOV 03	77.	FEB 16	59.	JUL 17	80.		

SITE NUMBER 371044121414701 LOCAL NUMBER 009S002E01J01M

4 MILES 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. DWR BASIN 2-009.02.

HIGHEST WATER LEVEL 12.6 FEET BELOW LAND SURFACE DATUM APR 16, 1941.

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
NOV 27, 1978	25.9	APR 30, 1979	30.0	SEP 11, 1979	33.0

SITE NUMBER 371713121534401 LOCAL NUMBER 007S001E31A02M

IN SAN JOSE. DRILLED IRRIGATION WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM UNKNOWN, DEPTH 360 FT. ALTITUDE OF LSD 151.6 FT. MEASUREMENTS FURNISHED BY SANTA CLARA VALLEY WATER DISTRICT. RECORDS AVAILABLE 1930 TO CURRENT YEAR. DWR BASIN 2-009.02.

HIGHEST WATER LEVEL 49.5 FEET BELOW LAND SURFACE DATUM APR 10, 1943.

LOWEST WATER LEVEL 224.1 FEET BELOW LAND SURFACE DATUM OCT 19, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
DEC 01, 1978	113.2

SANTA CLARA COUNTY -- CONTINUED

SITE NUMBER 372130122042301 LOCAL NUMBER 0075002W03D02M

NEAR LOS ALTOS. DRILLED MUNICIPAL AND INDUSTRIAL WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM UNKNOWN, DEPTH 187 FT. ALTITUDE OF LSD 640 FT. MEASUREMENTS FURNISHED BY SANTA CLARA VALLEY WATER DISTRICT. RECORDS AVAILABLE 1969 TO CURRENT YEAR. DWR BASIN 2-009.02.

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						
NOV 01, 1978	208.0	MAY 01, 1979	184.0	JUN 01, 1979	189.0	SEP 01, 1979	212.0
MAR 01, 1979	186.0						

SITE NUMBER 372349121564701 LOCAL NUMBER 006S001W23E01M

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. RECORDS AVAILABLE 1958 TO CURRENT YEAR. DWR BASIN 2-009.02.

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						
OCT 16, 1978	54.60	MAR 12, 1979	12.32	JUL 23, 1979	68.69	SEP 17, 1979	70.82
JAN 08, 1979	21.00	MAY 14	23.98				

SITE NUMBER 372640122084901 LOCAL NUMBER 006S003W01D10M

IN PALO ALTO. DRILLED MUNICIPAL WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM 14 IN, DEPTH FT, CASED TO 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. DWR BASIN 2-009.02.

HIGHEST WATER LEVEL 13.0 FEET BELOW LAND SURFACE DATUM APR 01, 1980.

LOWEST WATER LEVEL 103.0 FEET BELOW LAND SURFACE DATUM OCT 01, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL						
OCT 02, 1978	21.0	FEB 01, 1979	20.0	JUN 01, 1979	16.0	AUG 31, 1979	19.0
NOV 01	21.0	MAR 01	17.1	29	16.0	SEP 04	20.0
DEC 01	20.0	30	16.1	AUG 01	16.0		
JAN 02, 1979	20.0	MAY 01	16.0	13	17.0		

SANTA CRUZ COUNTY

SITE NUMBER 365255121475801 LOCAL NUMBER 0125001E13R01M

3 MILES 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. DWR BASIN 3-002.

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						
OCT 11, 1978	19.8	JAN 08, 1979	10.4	APR 12, 1979	14. R	JUL 16, 1979	28.0
NOV 17	14.6	FEB 09	9.7	MAY 21	16.7	AUG 21	0
DEC 11	11.1	MAR 12	9.7	JUN 19	27.4 R	SEP 17	0

SITE NUMBER 365425121452201 LOCAL NUMBER 0125002E09C02M

IN WATSONVILLE. DRILLED MUNICIPAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 177 FT, PERFORATED 98-147 FT. MP 2 FT ABOVE LSD. ALTITUDE OF LSD 23 FT. MEASUREMENTS FURNISHED BY CITY OF WATSONVILLE. RECORDS AVAILABLE 1970 TO CURRENT YEAR. DWR BASIN 3-002.

HIGHEST WATER LEVEL 37.0 FEET BELOW LAND SURFACE DATUM FEB 01, 1979.

LOWEST WATER LEVEL 51.0 FEET BELOW LAND SURFACE DATUM JUL 01, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 1978	48.0	FEB	37.0	MAY	46.0	AUG	51.0
DEC	44.0	MAR	40.0	JUN	50.0	SEP	51.0
JAN 1979	40.0	APR	43.0	JUL	51.0		

SITE NUMBER 365446121412001 LOCAL NUMBER 0125003E06N02M

4 MILES EAST OF WATSONVILLE. DRILLED DOMESTIC WATER-TABLE WELL IN AROMAS SAND OF PLEISTOCENE AGE. DIAM 10 IN, DEPTH 123 FT. MP 0.5 FT ABOVE LSD. ALTITUDE OF LSD 47 FT. RECORDS AVAILABLE 1970 TO CURRENT YEAR. DWR BASIN 3-002.

HIGHEST WATER LEVEL 38. FEET BELOW LAND SURFACE DATUM JAN 05, 1970.

LOWEST WATER LEVEL 64.2 FEET BELOW LAND SURFACE DATUM AUG 18, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL						
OCT 10, 1978	54.8	JAN 11, 1979	52.9	APR 19, 1979	48.8	JUL 19, 1979	59.5
NOV 27	51.2	FEB 13	53.4	MAY 24	54.3	AUG 14	59.20
DEC 15	53.4	MAR 14	46.5	JUN 21	54.2	SEP 20	56.98

SITE NUMBER 365702121464001 LOCAL NUMBER 0115002E29F02M

ABOUT 2.5 MILES NORTHWEST OF WATSONVILLE. DRILLED IRRIGATION WATER-TABLE WELL IN AROMAS SAND OF PLEISTOCENE AGE. DIAM 12 IN, DEPTH 670 FT CASED TO 656 FT, LOUVERED 236-656 FT. MP 1.5 FT ABOVE LSD. ALTITUDE OF LSD 134 FT. RECORDS AVAILABLE 1970 TO CURRENT YEAR. DWR BASIN 3-002.

HIGHEST WATER LEVEL 106.6 FEET BELOW LAND SURFACE DATUM APR 01, 1971.

LOWEST WATER LEVEL 135.5 FEET BELOW LAND SURFACE DATUM JUL 01, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL						
OCT 11, 1978	117.2	JAN 10, 1979	118.3	APR 16, 1979	119.6 R	JUL 19, 1979	P
NOV 21	115.4	FEB 13	117.	MAY 24	114.8	AUG 16	P
DEC 12	115.4	MAR 13	114.8	JUN 21	114.6	SEP 18	119.10 S

R RECENTLY PUMPED

O OBSTRUCTION

T NEARBY, RECENTLY PUMPED

S NEARBY, PUMPING

SANTA CRUZ COUNTY -- CONTINUED

SITE NUMBER 365733122050801 LOCAL NUMBER 0115002W21F03M

3 MILES WEST OF SANTA CRUZ. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM 12 IN, DEPTH 395 FT, PERFORATED 170-180,242-250,262-270,282-290,302-310, 322-330. ALTITUDE OF LSD 68 FT. RECORDS AVAILABLE 1974 TO CURRENT YEAR. DWR BASIN 3-026.

HIGHEST WATER LEVEL 120.2 FEET BELOW LAND SURFACE DATUM MAR 11, 1975.

LOWEST WATER LEVEL 184.12 FEET BELOW LAND SURFACE DATUM OCT 22, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL						
OCT 12, 1978	166.4	DEC 14, 1978	154.1	FEB 15, 1979	142.3	MAY 24, 1979	145.4
18	177.1	21	147.6	27	141.0	JUN 21	151.2
26	156.2	JAN 15, 1979	150.27	S MAR 15	138.2	JUL 17	P
NOV 08	166.3	JAN 15, 1979	144.2	APR 05	137.4	AUG 20	P
29	149.8	23	143.7	20	139.9	SEP 19	193.42 P S

SITE NUMBER 365934121572601 LOCAL NUMBER 0115001W10C01M

0.5 MILES NORTH OF SOQUEL. DRILLED IRRIGATION WATER-TABLE IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM UNKNOWN, DEPTH UNKNOWN. MP 1.6 FT ABOVE LSD. ALTITUDE OF LSD 90 FT. RECORDS AVAILABLE 1948 TO CURRENT YEAR. DWR BASIN 3-001.

HIGHEST WATER LEVEL 57.0 FEET BELOW LAND SURFACE DATUM OCT 15, 1958.

LOWEST WATER LEVEL 85.6 FEET BELOW LAND SURFACE DATUM JUL 27, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL						
OCT 26, 1978	62.6	DEC 21, 1978	61.8	FEB 27, 1979	62.4	APR 25, 1979	62.4
NOV 29	62.6	JAN 23, 1979	61.4	APR 05	61.1		

SITE NUMBER 370300122021101 LOCAL NUMBER 010S002W24E01M

1 MILE WEST OF SCOTTS VALLEY. DRILLED INDUSTRIAL WATER-TABLE WELL IN SANTA MARGARITA FORMATION OF PLEISTOCENE AGE. DIAM 12 IN, DEPTH 220, PERFORATED 48-96, 156-220 FT. ALTITUDE OF LSD 460 FT. BEGINNING 1974, MEASUREMENTS FURNISHED BY CALIF. DEPT. OF WATER RESOURCES. RECORDS AVAILABLE 1974-CURRENT YEAR. DWR BASIN 3-027.

HIGHEST WATER LEVEL 56.9 FEET BELOW LAND SURFACE DATUM MAR 23, 1978.

LOWEST WATER LEVEL 81.6 FEET BELOW LAND SURFACE DATUM OCT 13, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12, 1978	77.4	APR 05, 1979	69.3

P PUMPING

S NEARBY, PUMPING

SOLANO COUNTY

SITE NUMBER 381218121524101 LOCAL NUMBER 004N001E09M01M

NEAR DENVERTON. DRILLED STOCK WATER-TABLE WELL IN TEHAMA FORMATION OF PLIOCENE AGE. DIAM 6 IN, DEPTH 285 FT, CASED TO 285 FT, PERFORATED 174-176, 242-252, 269-285 FT. ALTITUDE OF LSD 95 FT. MEASUREMENTS FURNISHED BY CALIF. DEPT. OF WATER RESOURCES. RECORDS AVAILABLE 1975 TO CURRENT YEAR. DWR BASIN 2-003.

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	DATE	WATER LEVEL
OCT 02, 1978	62.7	MAR 22, 1979	61.8

SITE NUMBER 381543122052601 LOCAL NUMBER 005N002W21P03M

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 CALIF. DEPT. OF WATER RESOURCES. RECORDS AVAILABLE 1959 TO CURRENT YEAR. DWR BASIN 2-003.

HIGHEST WATER LEVEL 2.0 FEET BELOW LAND SURFACE DATUM FEB 26, 1980.

LOWEST WATER LEVEL 47.5 FEET BELOW LAND SURFACE DATUM OCT 03, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL						
OCT 16, 1978	11.1	DEC 19, 1978	11.5	MAR 19, 1979	7.7	JUL 27, 1979	9.3
25	10.6	JAN 25, 1979	8.7	23	8.0	AUG 23	10.4
NOV 27	11.1	FEB 23	7.1	APR 24	8.9	SEP 25	11.1

SONOMA COUNTY

SITE NUMBER 381452122264801 LOCAL NUMBER 005N005W29N01M

ABOUT 2.8 MILES SOUTH OF SONOMA. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 100 FT. ALTITUDE OF LSD 16 FT. BEGINNING 1951, MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951 TO CURRENT YEAR. DWR BASIN 2-002.02.

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 07, 1978	P	MAR 28, 1979	5.9

SITE NUMBER 381603122391101 LOCAL NUMBER 005N007W20B02M

2 MILES SOUTH OF PENNGROVE. DRILLED STOCK WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN, DEPTH 158 FT. MP 1.0 FT ABOVE LSD. ALTITUDE OF LSD 41 FT. BEGINNING 1965 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953 TO CURRENT YEAR. DWR BASIN 2-001.

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
APR 30, 1979	40.6

P PUMPING

SONOMA COUNTY -- CONTINUED

SITE NUMBER 381700122261401 LOCAL NUMBER 005N005W17C01M

ABOUT 0.5 MILES NORTH OF VINEBURG. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 6 IN, DEPTH 64 FT. ALTITUDE OF LSD 85 FT. BEGINNING 1950, MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1950 TO CURRENT YEAR. DWR BASIN 2-002.02

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 07, 1978	19.8	MAR 28, 1979	14.3

SITE NUMBER 382229122473101 LOCAL NUMBER 006N008W07P02M

5.5 MILES 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. DWR BASIN 2-018.

HIGHEST WATER LEVEL 10.55 FEET BELOW LAND SURFACE DATUM APR 04, 1952.

LOWEST WATER LEVEL 49. FEET BELOW LAND SURFACE DATUM OCT 08, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL						
OCT 27, 1978	28.1	JAN 24, 1979	21.5	APR 27, 1979	24.	JUL 26, 1979	29.3
NOV 30	28.	FEB 22	14.7	MAY 24	24.6	AUG 28	39.6 P
DEC 20	28.1	MAR 29	24.2 R	JUN 28	31.3	SEP 25	41.3 R

SITE NUMBER 383535122521301 LOCAL NUMBER 009N009W28N01M

1 MILE SOUTH OF HEALDSBURG. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 53 FT. MP 1.0 FT ABOVE LSD. ALTITUDE OF LSD 90 FT. RECORDS AVAILABLE 1953-1954, 1958 TO CURRENT YEAR. DWR BASIN 2-018.

HIGHEST WATER LEVEL 7.6 FEET BELOW LAND SURFACE DATUM FEB 09, 1960.

LOWEST WATER LEVEL 29.94 FEET BELOW LAND SURFACE DATUM SEP 29, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10, 1978	25.5	APR 11, 1979	20.39	SEP 28, 1979	28.10

P PUMPING

R RECENTLY PUMPED

SONOMA COUNTY -- CONTINUED

SITE NUMBER 384320122534201 LOCAL NUMBER 010N009W18B01M

1 MILE 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. MP 1.0 FT ABOVE LSD. ALTITUDE OF LSD 230 FT. BEGINNING 1950, MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1950 TO CURRENT YEAR. DWR BASIN 2-017.

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 04, 1978	20.6	APR 03, 1979	14.5

SITE NUMBER 384717123004801 LOCAL NUMBER 011N010W19F02M

ABOUT 1 MILE 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. BEGINNING 1952 MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1952-1955, 1958 TO CURRENT YEAR. DWR BASIN 2-017.

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 04, 1978	10.4	APR 03, 1979	4.6

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

The following analyses were made either by the State of California Bryte Laboratory, the Geological Survey Laboratories, or by a laboratory that made the analyses under Geological Survey quality control.

ALAMEDA COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L CaCO3)
373840121532901	003S001E29E03M	110ALVM	79-01-31	1500	1750	7.0	17.0	--	--
			79-05-23	1000	1920	7.1	17.0	640	120
			79-06-28	1200	1900	7.3	17.0	--	--
374102121493201	003S001E11J01M	110ALVM	78-11-20	1700	1000	7.0	17.0	450	--
			79-02-08	0900	910	--	17.0	--	--
			79-05-18	1400	--	--	18.0	--	--
374112121485001	003S001E12F01M	110ALVM	78-11-20	1600	897	7.0	17.0	380	--
			79-02-08	1000	569	--	16.0	--	--
			79-05-18	1430	700	7.3	18.5	300	53
			79-08-20	1330	870	7.4	17.5	--	--

DATE OF SAMPLE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO3)	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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
79-01-31	--	--	--	--	--	--	--	--	--	--	--	1010
79-05-23	140	70	--	--	--	--	520	--	--	--	--	1050
79-06-28	--	--	--	--	--	--	--	310	--	--	--	1070
78-11-20	60	74	39	16	.8	2.2	310	47	110	.1	25	613
79-02-08	--	--	--	--	--	--	--	--	--	--	--	505
79-05-18	55	--	--	--	--	--	--	--	--	--	--	--
78-11-20	48	63	40	19	.9	2.0	310	43	71	.3	24	546
79-02-08	--	--	--	--	--	--	--	--	--	--	--	323
79-05-18	42	48	--	--	--	--	250	--	--	--	--	646
79-08-20	--	--	--	--	--	--	--	--	64	--	--	485

DATE OF SAMPLE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
79-01-31	--	.05	.00	.05	--	--	--
79-05-23	1.43	.04	.00	.04	--	--	--
79-06-28	1.46	.05	.00	.05	--	--	--
78-11-20	.83	8.9	.01	8.9	.8	10	<1
79-02-08	--	7.8	.03	7.8	--	--	--
79-05-18	1.14	7.8	.00	--	--	--	--
78-11-20	.74	8.7	.01	8.7	1.0	10	3
79-02-08	--	2.0	.00	2.0	--	--	--
79-05-18	.88	4.5	.00	4.5	--	--	--
79-08-20	.66	7.0	.00	7.0	--	--	--

Geologic unit (aquifer):

110ALVM - Alluvium, Quaternary age.
 Chemical-quality samples collected by Alameda County Water District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

ALAMEDA COUNTY--Continued

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	HARDNESS (MG/L AS CaCO3)	
373349121585701	004S001W28D09M	111ALVF	78-12-06	1345	868	7.2	15.0	1.0	290	
			111ALVF	79-03-07	1430	924	7.2	12.5	--	290
			111ALVF	79-05-30	0845	705	7.2	18.0	--	280
373357121591401	004S001W20R02M	111ALVF	78-12-06	1410	847	7.0	16.0	--	240	
			111ALVF	79-03-07	1415	812	7.5	19.5	--	230
			111ALVF	79-05-30	1500	810	7.7	24.0	--	240
373424121584501	004S001W21F01M	111ALVF	78-12-06	1320	786	7.1	16.0	1.0	210	

DATE OF SAMPLE	HARDNESS, NONCARBONATE (MG/L CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO3)	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)
78-12-06	--	68	29	--	--	--	--	--	--	170	--	--
79-03-07	--	66	30	--	--	--	--	--	--	160	--	--
79-05-30	150	72	25	73	36	1.9	1.1	130	85	150	.2	13
78-12-06	--	55	25	--	--	--	--	--	--	--	--	--
79-03-07	--	52	24	--	--	--	--	--	--	130	--	--
79-05-30	83	56	25	92	45	2.6	2.6	160	100	120	.2	12
78-12-06	--	56	23	--	--	--	--	--	--	100	--	--

DATE OF SAMPLE	SOLIDS, RESIDUE AT 180 DEG. C (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, NITRATE (MG/L AS N)	NITROGEN, NITRITE (MG/L AS N)	NITROGEN, NO2+NO3 (MG/L AS N)	CARBON, ORGANIC TOTAL (MG/L AS C)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS Ba)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM, TOTAL RECOVERABLE (UG/L AS Cd)
78-12-06	577	--	--	--	.01	1.9	--	2.5	--	--	--	--
79-03-07	519	--	.71	1.9	.00	1.9	--	.7	--	--	--	
79-05-30	555	506	.75	1.7	.02	1.7	1.8	.8	0	200	540	0
78-12-06	514	--	--	--	.01	.94	--	1.9	--	--	--	--
79-03-07	509	--	.69	.99	.00	1.0	--	1.0	--	--	--	--
79-05-30	532	513	.72	1.7	.04	1.7	1.8	1.1	0	100	610	0
78-12-06	483	--	--	--	.01	.94	--	2.5	--	--	--	--

DATE OF SAMPLE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS Cr)	COPPER, TOTAL RECOVERABLE (UG/L AS Cu)	IRON, DIS-SOLVED (UG/L AS Fe)	LEAD, TOTAL RECOVERABLE (UG/L AS Pb)	MERCURY, TOTAL RECOVERABLE (UG/L AS Hg)	SELENIUM, TOTAL (UG/L AS Se)	SILVER, TOTAL RECOVERABLE (UG/L AS Ag)	ZINC, TOTAL RECOVERABLE (UG/L AS Zn)
78-12-06	--	--	--	--	--	--	--	--
79-03-07	--	--	--	--	--	--	--	--
79-05-30	0	0	10	0	.0	0	0	20
78-12-06	--	--	--	--	--	--	--	--
79-03-07	--	--	--	--	--	--	--	--
79-05-30	0	40	10	0	.0	0	0	630
78-12-06	--	--	--	--	--	--	--	--

Geologic unit (aquifer):

111ALVF - Alluvial fan deposits, Holocene age.

Chemical-quality samples collected by Alameda County Water District.

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

CONTRA COSTA COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TIME	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CHLORIDE, DISSOLVED (MG/L AS CL)
380129121543901	002N001E18D01M	110ALVM	79-04-18	0830	125	859	--	20.5	93
			79-09-25	0950	125	810	--	20.0	79
380049122015301	002N002W13P01M	110ALVM	79-04-18	1115	139	1080	--	17.5	190
			79-09-25	1215	139	1100	--	19.5	190
SANTA CRUZ COUNTY									
365702121464001	011S002E29F02M	112ARMS	78-11-21	1050	656	402	7.8	16.0	22
			79-04-18	1010	656	565	7.7	16.5	18
			79-08-16	1240	656	431	7.5	--	15
365255121475801	012S001E13R01M	112ARMS	78-10-11	1113	370	506	7.9	18.5	21
			78-11-17	1105	370	468	7.8	17.0	19
			78-12-11	1245	370	475	7.9	16.5	19
			79-01-08	1022	370	493	7.8	16.5	16
			79-02-09	1030	370	500	7.9	17.0	23
			79-03-12	0945	370	589	8.0	17.5	38
			79-04-12	1110	370	476	8.0	16.5	19
			79-05-21	1005	370	480	7.8	17.5	15
			79-06-18	0912	370	482	8.1	18.0	18
			79-07-13	0950	370	481	7.9	19.0	68
			79-08-21	1345	370	463	6.7	19.0	18
79-09-17	0935	370	465	7.6	18.0	22			
365446121412001	012S003E06N02M	111ALCRY	78-10-10	1000	123	1260	7.7	18.0	73
			78-11-27	1010	123	1240	7.6	--	71
			78-12-15	1135	123	1240	7.6	--	71
			79-01-11	1120	123	1260	7.6	--	65
			79-02-13	1400	123	1270	7.5	--	69
			79-03-14	1500	123	1280	7.5	--	65
			79-04-19	1235	123	1280	7.5	--	71
			79-05-24	1101	123	1280	7.5	--	70
			79-06-21	1451	123	1280	7.7	--	67
			79-07-19	0937	123	1280	7.1	18.0	71
			79-08-24	0930	123	1714	7.5	16.5	83
79-09-20	1135	123	1293	7.0	22.0	71			

Geologic units (aquifers):

110ALVM - Alluvium, Quaternary age.

112ARMS - Aromas Sand, Pleistocene age.

111ALCRY - Alluvium of the Coast Range, Quaternary age.

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

SONOMA COUNTY

STATION NUMBER	DEPTH OF WELL, TOTAL (FEET)	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	HARDNESS (MG/L AS CaCO3)
383104122523001		008N009W02R01M	111ALVM	79-01-16	1330	280	6.6	14.5	.50	130
			111ALVM	79-03-14	0920	249	7.3	14.5	.30	110
			111ALVM	79-06-14	0915	266	7.2	20.0	.50	130
			111ALVM	79-07-12	1300	276	6.2	22.0	.50	120
383310122511801	60	008N009W09J01M	111ALVM	78-10-10	1055	409	6.7	17.0	.25	210
			111ALVM	79-05-17	0935	363	6.7	17.5	.50	190
			111ALVM	79-09-28	1005	344	6.8	17.5	.30	170
383536122520401	70	009N009W28N02M	111ALVM	78-10-10	1100	343	7.1	15.5	16	180
			111ALVM	79-05-17	1005	366	6.8	17.5	3.8	180
			111ALVM	79-09-28	1110	369	7.0	17.0	2.4	170
383655122530702		009N009W20E03M	111ALVM	79-01-17	1200	260	6.7	12.0	3.3	110
			111ALVM	79-03-14	1225	273	7.7	13.0	3.9	110
			111ALVM	79-06-14	1000	247	6.5	17.0	2.6	110
			111ALVM	79-07-12	1200	248	6.9	21.5	1.1	110
383958122554801		010N010W35R01M	111ALVM	78-10-10	1200	122	6.2	15.5	1.3	45
			111ALVM	79-05-17	1130	114	6.3	18.0	2.4	40
			111ALVM	79-09-28	1310	109	6.2	20.0	1.3	41
384221122574401		010N010W22D02M	111ALVM	78-10-10	1230	252	6.9	19.0	--	110
			111ALVM	79-05-17	1200	228	6.6	19.0	.80	96
			111ALVM	79-09-28	1400	243	6.7	22.0	1.2	110

DATE OF SAMPLE	HARDNESS, NONCARBONATE (MG/L CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO3)	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)
79-01-16	12	25	17	9.2	13	.3	.7	120	15	6.7	.1	15
79-03-14	15	20	14	7.9	14	.3	.7	93	13	6.4	.1	14
79-06-14	17	26	15	9.2	14	.4	1.2	110	19	5.5	.1	13
79-07-12	2	24	15	9.7	15	.4	1.2	120	17	6.0	.2	16
78-10-10	29	41	26	10	9	.3	1.4	180	27	9.6	.0	21
79-05-17	22	39	23	8.8	9	.3	1.2	170	24	6.9	.1	21
79-09-28	9	33	21	9.5	11	.3	1.2	160	24	6.1	.1	22
78-10-10	0	24	28	13	14	.4	.7	180	15	7.7	.1	24
79-05-17	0	25	28	13	14	.4	.7	180	24	7.7	.1	24
79-09-28	0	22	28	13	14	.4	.7	180	21	6.9	.2	25
79-01-17	0	18	16	14	21	.6	.5	120	3.9	6.6	.1	25
79-03-14	0	20	15	13	20	.5	.5	120	5.9	6.6	.2	23
79-06-14	0	19	16	13	20	.5	.7	120	9.0	6.4	.1	23
79-07-12	0	17	16	14	22	.6	.7	120	6.0	4.8	.2	25
78-10-10	11	9.0	5.4	7.0	25	.5	.3	34	13	5.4	.0	21
79-05-17	16	8.2	4.7	7.0	28	.5	.0	24	12	6.1	.1	21
79-09-28	17	7.9	5.1	7.2	28	.5	.3	24	15	6.0	.1	23
78-10-10	0	21	14	12	19	.5	.6	110	18	6.2	.1	24
79-05-17	16	17	13	10	18	.4	.3	80	23	6.2	.1	25
79-09-28	0	20	14	13	21	.5	.6	110	22	5.4	.1	25

Geologic unit (aquifer):

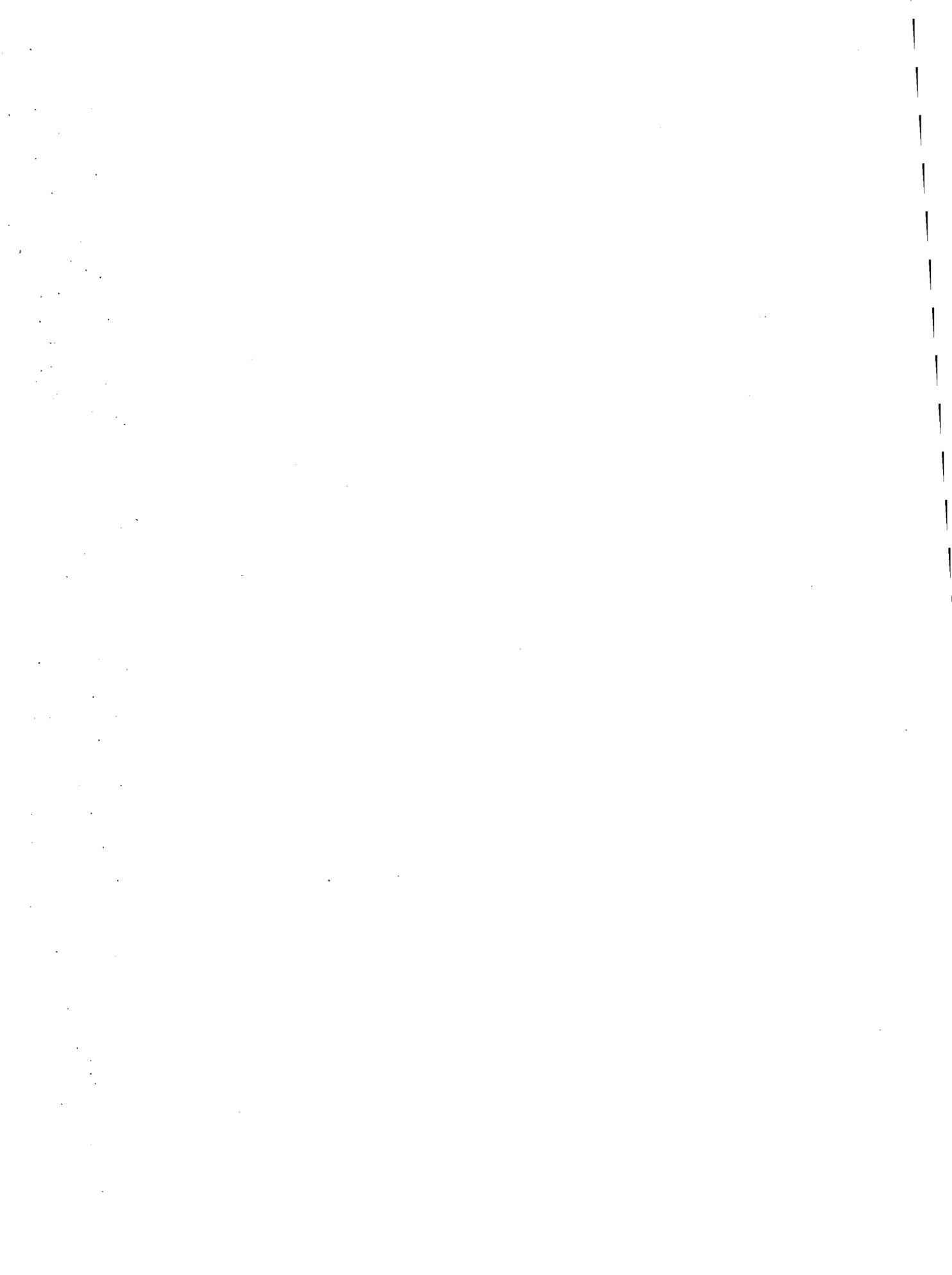
111ALVM - Alluvium, Holocene age.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

SONOMA COUNTY--Continued

DATE OF SAMPLE	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)	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)	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)	ZINC, DIS-SOLVED (UG/L AS ZN)
79-01-16	163	.22	.42	1	400	<1	10	3	--	4	.2	--
79-03-14	135	.18	.47	0	300	1	0	1	10	2	.0	--
79-06-14	157	.21	.25	0	370	0	0	0	10	0	.0	20
79-07-12	163	.22	.18	1	470	1	0	0	0	0	.0	<3
78-10-10	247	.34	2.3	--	330	--	--	--	10	--	--	--
79-05-17	228	.31	1.5	--	300	--	--	--	0	--	--	--
79-09-28	218	.30	1.0	--	330	--	--	--	<10	--	--	--
78-10-10	221	.30	.33	--	170	--	--	--	20	--	--	--
79-05-17	233	.32	.40	--	150	--	--	--	0	--	--	--
79-09-28	227	.31	.40	--	160	--	--	--	30	--	--	--
79-01-17	157	.21	.01	1	320	<1	0	1	20	1	.0	250
79-03-14	157	.21	.01	0	290	0	0	0	130	0	.0	270
79-06-14	160	.22	.00	0	260	1	0	0	30	0	.0	120
79-07-12	156	.21	.00	0	310	<1	0	0	180	0	.0	80
78-10-10	82	.11	1.0	--	40	--	--	--	50	--	--	--
79-05-17	81	.11	1.6	--	30	--	--	--	100	--	--	--
79-09-28	81	.11	2.1	--	30	--	--	--	30	--	--	--
78-10-10	162	.22	.25	--	190	--	--	--	10	--	--	--
79-05-17	148	.20	1.2	--	60	--	--	--	10	--	--	--
79-09-28	168	.23	.25	--	130	--	--	--	20	--	--	--

DATE OF SAMPLE	CARBON, ORGANIC TOTAL (MG/L AS C)
79-01-16	.8
79-03-14	1.3
79-06-14	1.1
79-07-12	4.4
78-10-10	.2
79-05-17	.3
79-09-28	3.7
78-10-10	.3
79-05-17	2.2
79-09-28	.4
79-01-17	.4
79-03-14	.8
79-06-14	2.1
79-07-12	.6
78-10-10	.2
79-05-17	.0
79-09-28	.8
78-10-10	1.5
79-05-17	1.9
79-09-28	.0



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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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