



# Water Resources Data for California

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

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-80-  
WATER YEAR 1980

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

## CALENDAR FOR WATER YEAR 1980

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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-8C

WATER YEAR 1980

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

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, SECRETARY

GEOLOGICAL SURVEY

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## PREFACE

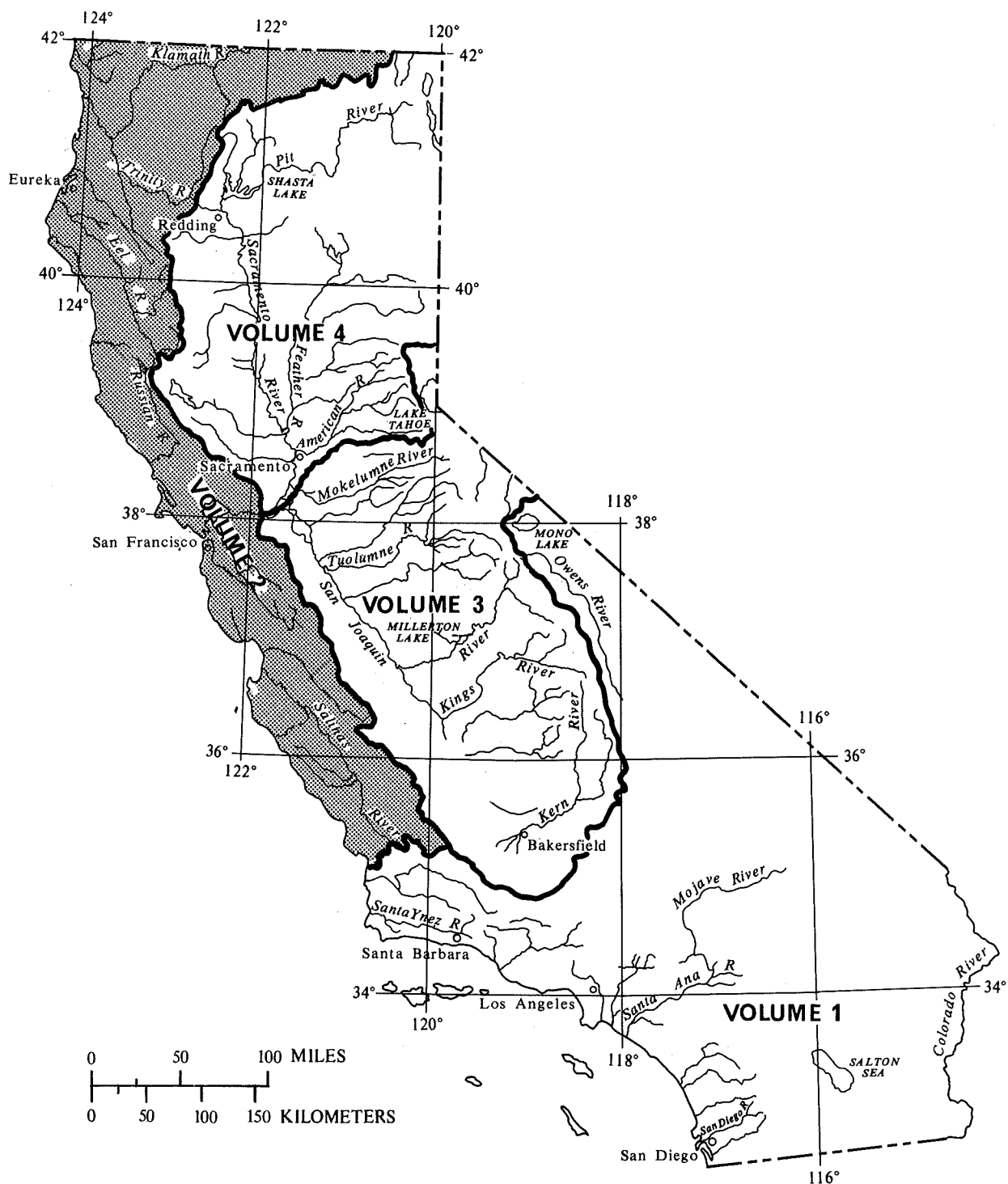
This report was prepared by personnel of the California District, Water Resources Division, U.S. Geological Survey, under the supervision of Richard M. Bloyd, District Chief, and J. D. Bredehoeft, Regional Hydrologist, Western Region. It was done in cooperation with the California Department of Water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

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

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## WATER RESOURCES DATA FOR CALIFORNIA, 1980

### VOLUME 2

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#### INTRODUCTION

Water-resources data for the 1980 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, Text Products Section, U.S. Geological Survey, 604 South Pickett Street, Alexandria, Virginia 22304.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released, either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports 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 volume is identified as "U.S. Geological Survey Water-Data Report CA-80-2." These reports for water years 1971-74 are also identified as water-data reports. Water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (415) 323-8111, extension 2328.

## 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.  
California Regional Water Quality Control Board, North Coast Region,  
David C. Joseph, Executive Officer.  
California State Water Resources Control Board, Clinton L. Whitney, Director.  
Alameda County Flood Control and Water Conservation District,  
P. E. Lanferman, Engineer-Manager.  
Alameda County Flood Control and Water Conservation District, Zone 7,  
Mun J. Mar, General Manager.  
East Bay Regional Park District, Mary Lee Jefferds, President, Board of Directors.  
Monterey County Flood Control and Water Conservation District,  
Robert R. Smith, District Engineer.  
Monterey Peninsula Water Management District, William R. Gianelli, General Manager.  
Napa County Department of Public Works, Harry D. Hamilton, Director.  
San Benito County Water Conservation and Flood Control District,  
Ralph G. Towle, District Secretary.  
San Luis Obispo County Engineering Department,  
G. C. Protopapas, County Engineer.  
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 1980 water year began with above normal mean monthly flows because of above normal precipitation in the north-coastal and central-coastal regions of California. At the index station, Smith River near Crescent City (fig. 1), streamflow during the first quarter was 152 percent of the 1941-70 median during November to slightly below the median in December, but within the normal range.

During January and February major tropical storms brought abundant precipitation to the southern and central portions of the State. During this second quarter, mean monthly flows were at or above normal at all index stations. Combined contents in the 10 major reservoirs in northern California was 113 percent of average, having risen from 103 percent at the end of the 1979 water year.

During the second half of the 1980 water year, runoff at the Smith River index station was at or below the median, declining to 88 percent of the median by the end of the water year. Contents in the 10 major reservoirs increased during the last half of 1980 to 123 percent of average at year's end and 120 percent higher than the start of the water year.

The areal distribution of runoff in California for the 1980 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 101 percent at Smith River near Crescent City, in the north coast area, to 398 percent for Arroyo Grande at Arroyo Grande. Average runoff for the 11 index stations was 221 percent of the 30-year median.

Ground-water levels rose an average of 1.0 feet (0.3 m) in the north-coastal part of the State during the period spring 1979 to spring 1980. Ground-water levels rose an average of 0.5 feet (0.2 m) in the central-coastal part of the State during the period spring 1979 to spring 1980.

#### DEFINITION OF TERMS

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

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

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

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

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

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

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

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

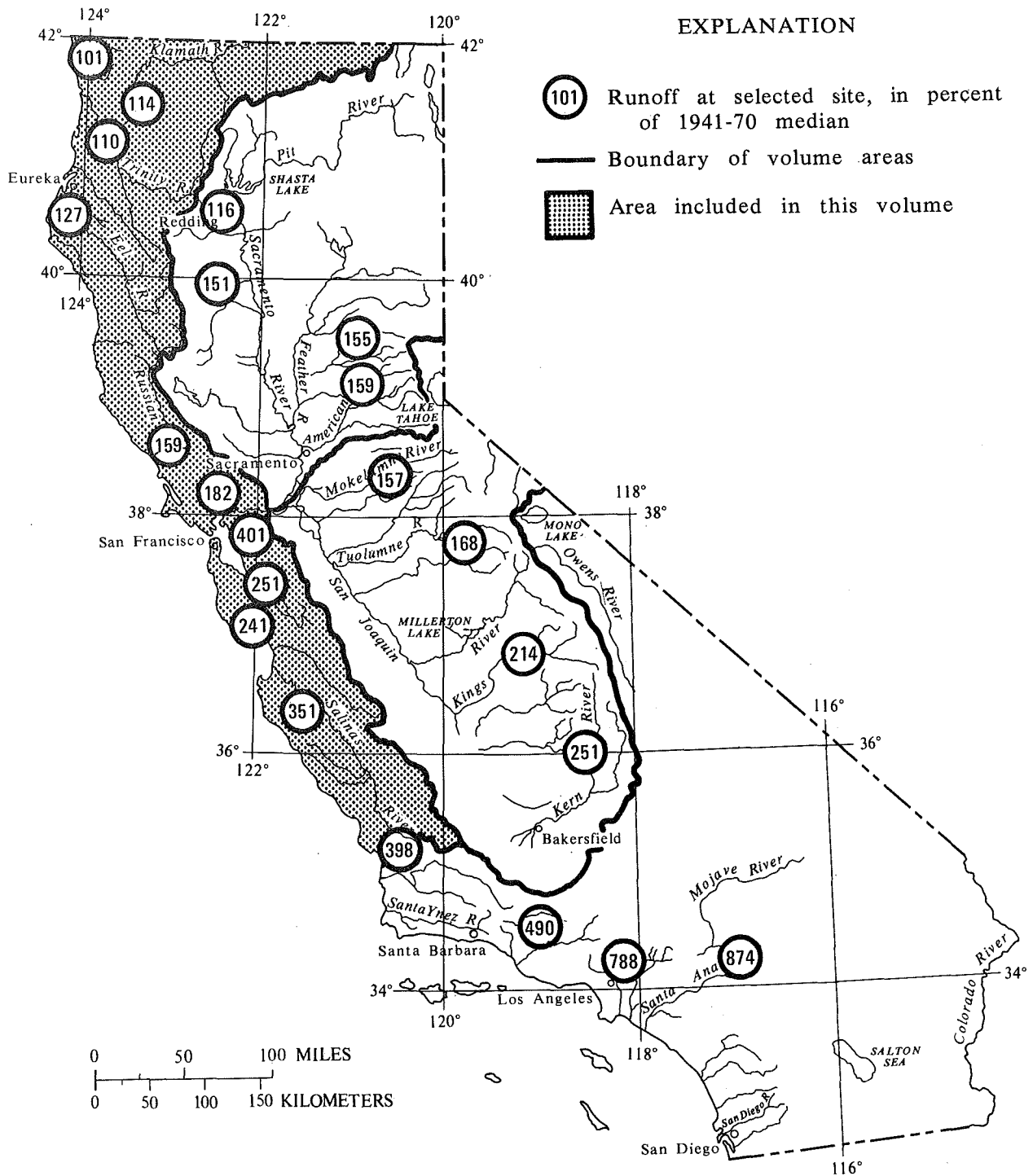


FIGURE 1.--Runoff for the 1980 water year.

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  $500^{\circ}\text{C}$  for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter ( $\text{g}/\text{m}^3$ ), and periphyton and benthic organisms in grams per square meter ( $\text{g}/\text{m}^2$ ).

Dry mass refers to the mass of residue present after drying in an oven at  $60^{\circ}\text{C}$  for zooplankton and  $105^{\circ}\text{C}$  for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

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

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

Bottom material: See Bed material.

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

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

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

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

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

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

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

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

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

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

Cubic foot per second (FT<sup>3</sup>/S, ft<sup>3</sup>/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 at a later date.

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

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



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 ( $\text{CaCO}_3$ ).

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,  $\lambda$  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,  $\text{mg/L}$ ) 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  $\text{mg/L}$  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 the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts and as such does not necessarily represent local mean sea level at any particular place. To establish a more precise nomenclature, the "NGVD of 1929" is used in place of "Sea Level Datum of 1929" or mean sea level." In the text of this report the term "sea level" is synonymous with "National Geodetic Vertical Datum of 1929."

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 ( $\text{m}^2$ ), 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 ( $1 \times 10^{-12}$ ) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields  $3.7 \times 10^{10}$  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/(m<sup>2</sup>.time) for periphyton and macrophytes and mg C/(m<sup>3</sup>.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 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.

Suspended, recoverable (continued)

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.....	<u>Hexagenia</u>
Species.....	<u>limbata</u>

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 or suspended in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

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

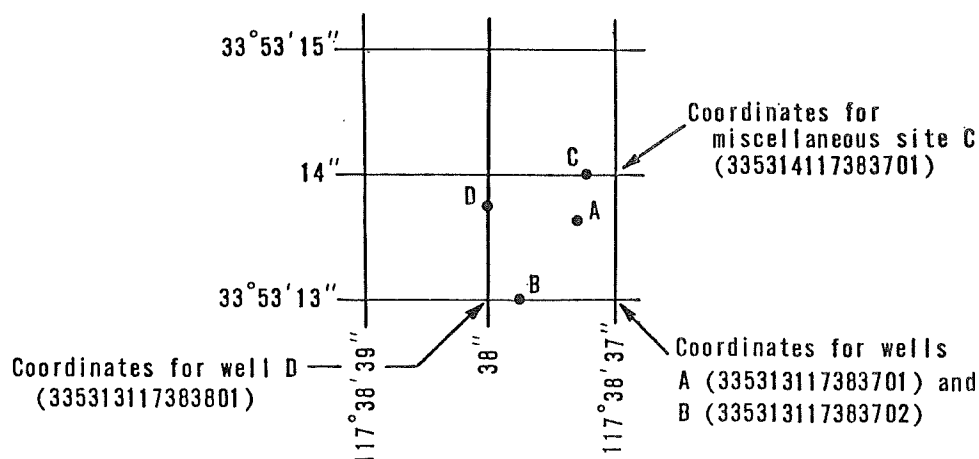


FIGURE 2.--System for numbering wells and miscellaneous sites (latitude and longitude).

### 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.



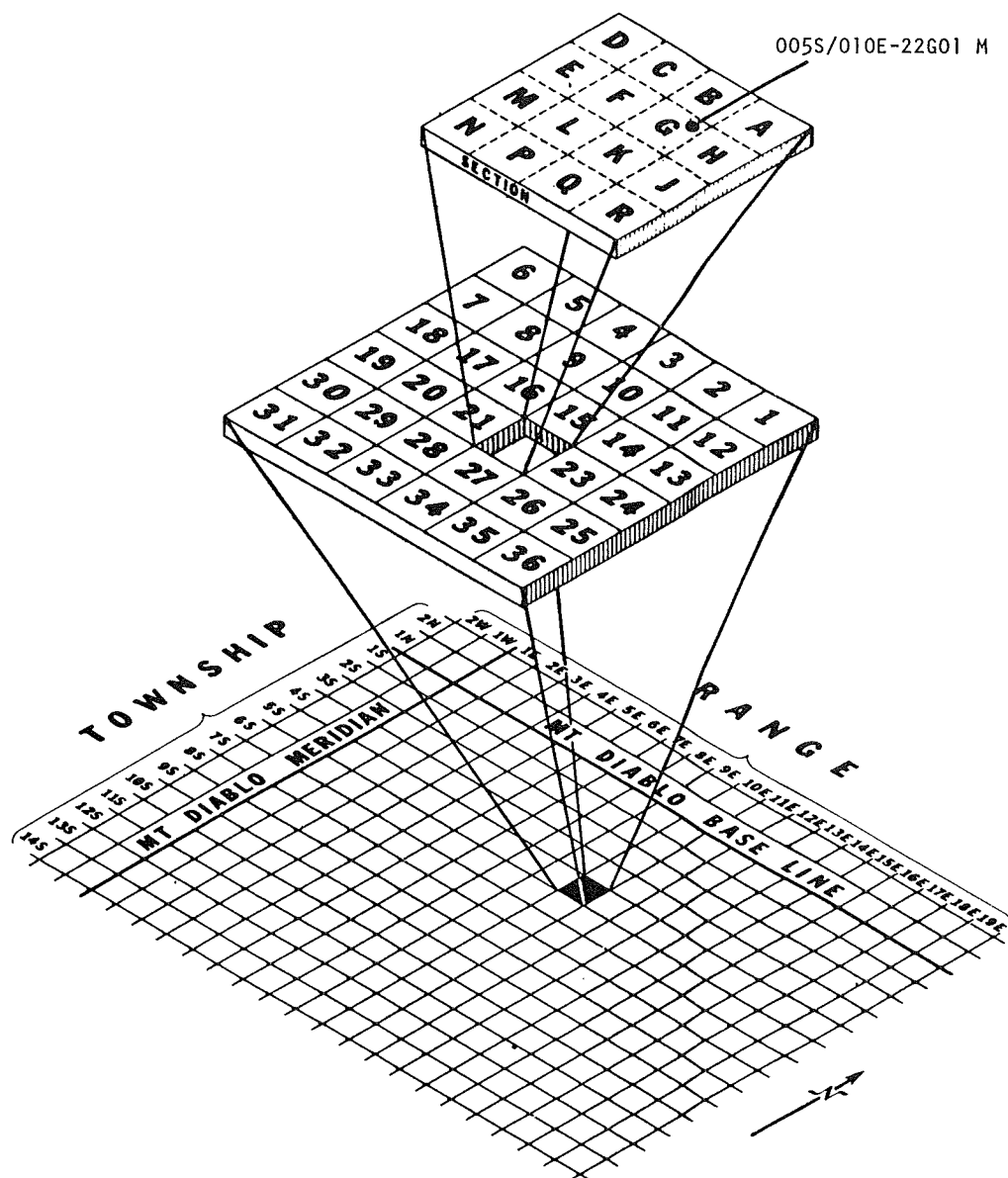


FIGURE 3.--California well-numbering system.

## 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  
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 Rey River at Oceanside, CA  
11074000 Santa Ana River below Prado Dam, CA  
11103000 Los Angeles River 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 interagency activity.

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

## EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

### Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams and canals, and stage and contents of lakes and reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily 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 ft<sup>3</sup>/s; to tenths between 1.0 and 10 ft<sup>3</sup>/s; to whole numbers between 10 and 1,000 ft<sup>3</sup>/s; and to 3 significant figures above 1,000 ft<sup>3</sup>/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

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 (1sd). 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, Text Products Section, Branch of Distribution, 604 South Pickett Street, Alexandria, VA 22304 (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 programed 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. 322 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.

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.

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.--13 years, 2.94 ft<sup>3</sup>/s (0.083 m<sup>3</sup>/s), 2,130 acre-ft/yr (2.63 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft<sup>3</sup>/s (36.0 m<sup>3</sup>/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 ft<sup>3</sup>/s (9.91 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.12 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) Sept. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft<sup>3</sup>/s (0.6 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)		Gage height (ft) (m)		Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)		Gage height (ft) (m)	
Jan. 13	2000	125	3.54	5.79	1.765	Feb. 21	0515	101	2.86	5.62	1.713
Feb. 16	1130	143	4.05	5.90	1.798	Mar. 3	0500	36	1.02	5.08	1.548
Feb. 19	1745	*164	4.64	6.02	1.835	Mar. 6	0515	86	2.44	5.52	1.682

Minimum daily discharge, 0.24 ft<sup>3</sup>/s (0.007 m<sup>3</sup>/s) Oct. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.91	.27	.86	1.5	2.0	7.0	4.2	3.7	1.9	2.3	1.2	1.2
2	.72	.58	.90	1.4	1.9	9.3	4.1	3.4	2.1	2.4	1.1	1.2
3	.80	.80	.92	1.3	1.9	24	4.0	3.2	1.9	2.2	1.2	1.2
4	.80	1.2	1.2	1.3	1.9	17	4.0	2.9	1.9	2.1	1.3	1.1
5	.80	1.0	1.3	1.5	1.9	28	4.1	2.9	1.9	1.9	1.5	1.1
6	.76	1.0	1.1	1.1	1.9	35	3.8	2.9	2.1	1.9	1.3	1.0
7	.76	1.0	.94	1.2	1.8	25	3.9	2.8	2.1	1.8	1.2	1.1
8	.84	.97	.95	1.3	1.8	15	3.9	2.8	2.1	1.8	1.2	1.1
9	.84	.80	.98	4.6	1.8	10	4.2	2.6	2.1	1.7	1.1	1.1
10	.90	.63	.98	17	1.8	9.4	4.6	3.5	2.1	1.7	1.1	1.1
11	.90	.51	.97	47	1.8	8.7	4.4	2.3	2.1	1.7	1.1	1.1
12	1.1	.41	.93	71	1.8	7.8	4.1	2.2	2.1	1.7	1.1	1.1
13	1.3	.52	.89	88	1.8	7.3	4.1	2.2	2.2	1.7	1.2	1.0
14	1.4	.57	.88	104	4.2	6.9	3.7	2.2	2.1	1.7	1.3	.96
15	1.4	.63	.87	35	13	6.4	3.4	2.3	2.1	1.7	1.4	.94
16	1.4	.75	.88	10	36	6.0	3.2	2.1	2.1	1.7	1.3	.85
17	1.2	.87	.95	11	104	5.7	3.3	2.0	2.2	1.7	1.3	.72
18	1.5	.84	.96	8.0	62	5.6	3.3	1.9	2.4	1.6	1.5	.73
19	2.2	.81	.98	4.0	68	5.5	3.2	1.8	2.4	1.4	1.6	.68
20	3.3	.77	1.0	3.2	75	5.3	3.0	1.8	2.4	1.4	1.4	.55
21	1.8	.73	1.1	3.1	65	5.3	3.0	1.9	2.3	1.4	1.6	.61
22	1.6	.78	1.1	2.9	41	5.3	4.8	1.9	2.4	1.4	1.1	.54
23	1.8	.82	1.2	2.7	30	5.1	3.8	1.8	2.4	1.3	1.1	.51
24	1.9	.82	1.9	2.6	25	5.2	3.4	1.8	2.4	1.3	1.1	.61
25	2.6	.82	2.0	2.5	22	5.3	3.2	1.9	2.3	1.3	1.1	.78
26	2.3	.82	1.9	2.5	21	5.0	3.2	1.9	2.2	1.3	1.1	1.0
27	1.5	.82	1.6	2.4	16	4.8	3.2	1.9	2.2	1.2	1.1	1.1
28	1.3	.82	1.5	2.4	12	4.6	3.3	1.9	2.1	1.2	1.1	1.1
29	.78	.82	1.5	2.3	8.6	4.6	3.4	1.9	2.2	1.2	1.1	1.1
30	.43	.83	1.4	2.1	---	4.6	3.4	2.1	2.3	1.2	1.1	1.1
31	.24	---	1.5	2.0	---	4.4	---	1.9	---	1.2	1.1	---
TOTAL	40.08	23.01	36.14	440.9	626.9	299.1	111.2	72.4	65.1	50.1	38.0	28.28
MEAN	1.29	.77	1.17	14.2	21.6	9.65	3.71	2.34	2.17	1.62	1.23	.94
MAX	3.3	1.2	2.0	104	104	35	4.8	3.7	2.4	2.4	1.6	1.2
MIN	.24	.27	.86	1.1	1.8	4.4	3.0	1.8	1.9	1.2	1.1	.51
AC-FT	79	46	72	875	1240	593	221	144	129	99	75	56
CAL YR 1979	TOTAL	670.42	MEAN	1.84	MAX	18	MIN	.24	AC-FT	1330		
WTR YR 1980	TOTAL	1831.21	MEAN	5.00	MAX	104	MIN	.24	AC-FT	3630		

## ARROYO GRANDE BASIN

27

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 mi<sup>2</sup> (55.9 km<sup>2</sup>).

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.--13 years, 10.6 ft<sup>3</sup>/s (0.300 m<sup>3</sup>/s), 7,680 acre-ft/yr (9.47 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft<sup>3</sup>/s (80.1 m<sup>3</sup>/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 ft<sup>3</sup>/s (8.50 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft<sup>3</sup>/s (0.008 m<sup>3</sup>/s) Aug. 1, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft<sup>3</sup>/s (1.4 m<sup>3</sup>/s) and maximum (\*) from rating curve extended as explained above:

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 13	1715	399 11.3	5.22 1.591	Mar. 3	0900	176 4.98	4.86 1.481
Feb. 16	1445	*997 28.2	6.63 2.021	Mar. 5	0915	254 7.19	5.08 1.548
Feb. 21	0500	937 26.5	6.50 1.981				

Minimum daily discharge.--1.50 ft<sup>3</sup>/s (0.042 m<sup>3</sup>/s) Oct. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.4	2.1	3.4	6.0	24	15	9.9	7.6	5.6	4.4	3.1
2	1.6	2.4	2.2	3.1	5.5	29	15	9.9	7.4	5.6	3.1	3.1
3	1.6	2.7	2.2	2.9	5.0	90	15	8.7	5.8	5.5	4.4	3.1
4	1.6	2.9	2.2	2.9	5.0	57	16	8.8	4.7	5.5	4.6	3.1
5	1.5	2.4	2.2	2.7	5.0	142	21	8.4	5.8	5.5	4.7	3.1
6	1.5	2.4	2.2	2.6	4.7	166	18	8.9	6.8	5.0	4.7	3.4
7	1.5	2.4	2.2	3.0	4.4	114	15	7.7	6.9	4.9	3.9	3.4
8	1.7	2.4	2.2	2.8	4.4	78	14	10	7.1	5.0	3.6	3.4
9	1.7	2.3	2.2	4.5	4.3	61	14	10	6.8	5.0	3.4	3.4
10	1.6	2.2	2.2	8.8	4.2	51	13	12	6.5	4.9	3.4	3.4
11	1.8	1.9	2.2	134	4.2	44	14	9.5	6.4	4.7	3.1	3.4
12	1.8	1.6	2.1	206	4.0	40	14	9.2	6.3	4.7	3.1	3.4
13	1.8	1.6	2.0	226	3.7	37	13	10	6.5	4.7	3.4	3.4
14	2.1	1.6	2.0	185	6.4	34	13	11	6.9	4.5	4.2	3.5
15	2.3	1.6	2.0	63	12	31	12	9.2	6.9	4.3	3.9	3.6
16	2.2	1.6	2.0	34	183	29	13	8.7	7.0	4.3	3.4	3.6
17	2.2	2.1	2.2	27	306	30	12	7.7	7.2	4.2	3.4	3.4
18	2.2	2.1	2.2	23	528	28	12	7.7	6.7	4.4	3.4	3.4
19	2.5	2.0	2.2	19	316	31	11	7.2	6.2	4.6	3.4	3.4
20	3.6	1.9	2.3	16	293	26	11	7.1	6.6	4.7	3.4	3.4
21	3.0	1.8	2.4	14	338	23	11	7.0	6.4	4.7	3.1	3.4
22	2.7	1.8	2.6	12	111	22	13	5.9	6.2	4.7	3.1	3.6
23	2.4	2.0	2.6	10	80	23	12	6.5	6.4	4.7	3.1	3.6
24	2.4	2.0	4.5	10	82	22	12	7.4	5.9	4.4	3.1	3.4
25	2.8	2.0	4.5	12	63	20	11	7.7	5.7	4.4	3.1	3.4
26	3.3	2.0	3.8	11	49	20	11	7.9	5.6	4.4	3.1	3.4
27	2.9	2.0	3.6	9.8	36	20	10	7.2	5.2	4.4	3.1	3.5
28	2.6	2.0	3.4	9.3	29	18	10	5.4	5.5	4.4	3.1	3.9
29	2.2	2.0	3.4	9.0	26	18	9.4	5.3	5.6	4.4	3.1	3.9
30	2.2	2.0	3.2	7.6	---	18	9.1	5.2	5.6	4.4	3.1	3.8
31	2.4	---	3.4	6.0	---	16	---	6.6	---	4.4	3.1	---
TOTAL	67.3	62.1	80.5	1080.4	2518.8	1362	389.5	253.7	190.2	146.9	109.0	102.9
MEAN	2.17	2.07	2.60	34.9	86.9	43.9	13.0	8.18	6.34	4.74	3.52	3.43
MAX	3.6	2.9	4.5	226	528	166	21	12	7.6	5.6	4.7	3.9
MIN	1.5	1.6	2.0	2.6	3.7	16	9.1	5.2	4.7	4.2	3.1	3.1
AC-FT	133	123	160	2140	5000	2700	773	503	377	291	216	204
CAL YR 1979 TOTAL	2099.06			MEAN 5.75	MAX 113	MIN 1.5	AC-FT 4160					
WTR YR 1980 TOTAL	6363.30			MEAN 17.4	MAX 528		AC-FT 12620					

## ARROYO GRANDE BASIN

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 mi<sup>2</sup> (264 km<sup>2</sup>).

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, Apr. 8-11, which are fair. Flow regulated by Lopez Dam 7.8 mi (12.6 km) upstream since 1968, usable capacity, 47,800 acre-ft (58.9 hm<sup>3</sup>). Many small and intermittent diversions by pumping from stream for irrigation of about 4,000 acres (16.2 km<sup>2</sup>) above station.

AVERAGE DISCHARGE.--29 years (water years 1940-68), 19.4 ft<sup>3</sup>/s (0.549 m<sup>3</sup>/s), 14,060 acre-ft/yr (17.3 hm<sup>3</sup>/yr); 12 years (water years 1969-80), 14.7 ft<sup>3</sup>/s (0.416 m<sup>3</sup>/s), 10,650 acre-ft/yr (13.1 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft<sup>3</sup>/s (153 m<sup>3</sup>/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 ft<sup>3</sup>/s (84.7 m<sup>3</sup>/s) Feb. 24, 1969, gage height, 9.48 ft (2.890 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft<sup>3</sup>/s (30.3 m<sup>3</sup>/s) Feb. 19, gage height, 5.95 ft (1.814 m); minimum daily, 1.9 ft<sup>3</sup>/s (0.054 m<sup>3</sup>/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	4.5	3.9	5.3	7.3	158	35	15	7.1	3.1	2.4	5.9
2	8.0	4.3	3.2	5.3	6.3	152	33	15	7.3	4.3	3.2	4.9
3	6.8	3.9	3.9	5.5	7.1	203	33	15	7.3	4.2	3.7	3.5
4	4.8	4.1	4.0	5.2	6.3	175	33	15	7.3	3.9	4.2	3.9
5	3.7	4.5	4.7	5.0	6.4	281	35	14	7.3	3.1	3.4	4.5
6	3.1	4.2	3.4	5.0	6.8	367	40	13	6.7	4.7	4.1	4.1
7	3.5	4.3	3.3	5.1	6.8	298	38	12	6.1	4.8	3.0	4.2
8	2.8	4.0	3.6	5.0	6.6	232	34	12	5.2	4.0	2.8	4.6
9	1.9	4.1	4.1	5.9	5.9	192	32	11	3.5	3.6	3.8	3.7
10	3.5	4.0	4.1	7.8	6.5	166	31	11	2.7	3.7	4.3	4.2
11	3.3	4.5	3.9	17	6.4	146	30	11	2.8	3.1	3.5	4.4
12	3.6	4.6	4.0	29	6.5	127	29	11	2.7	3.3	3.3	3.3
13	3.3	4.0	3.7	31	7.0	118	28	11	3.7	4.0	2.7	4.9
14	3.5	3.7	3.0	61	7.9	106	27	11	3.3	4.2	3.1	4.2
15	4.1	3.7	3.1	20	9.0	97	26	11	3.0	4.4	2.5	4.8
16	3.1	3.7	3.5	15	148	90	25	10	3.0	4.4	3.2	3.4
17	2.4	4.5	4.1	12	93	78	23	10	3.2	4.5	5.2	2.3
18	3.3	4.5	3.8	11	512	72	22	9.9	2.8	3.7	5.2	2.5
19	4.2	4.4	3.6	9.9	740	71	21	9.6	3.7	4.3	4.2	2.8
20	4.8	4.3	4.3	9.0	770	63	19	9.6	3.3	4.6	3.4	2.7
21	4.4	4.5	4.6	8.6	802	59	19	9.3	2.7	4.7	2.6	4.0
22	4.3	4.7	4.1	8.2	585	58	19	9.3	2.7	3.1	3.2	3.6
23	4.5	4.7	4.3	8.0	390	53	19	9.4	3.7	3.0	3.8	2.9
24	4.5	4.4	7.7	7.9	301	50	19	8.9	3.2	3.7	4.6	2.8
25	5.2	4.5	6.0	8.0	250	51	18	8.4	2.8	3.7	5.0	4.0
26	5.0	4.7	5.4	7.6	216	51	18	8.2	2.2	4.9	4.7	4.0
27	4.6	4.7	5.3	7.6	195	47	18	7.8	2.1	6.1	3.9	3.3
28	4.5	4.6	5.1	7.7	189	45	18	7.5	2.3	4.6	4.0	3.5
29	4.6	5.1	5.1	7.5	173	44	17	7.2	2.7	3.4	3.0	3.5
30	4.6	3.7	5.6	7.3	---	37	16	7.0	3.1	3.9	2.6	3.0
31	4.8	---	5.4	7.3	---	38	---	7.0	---	3.0	4.1	---
TOTAL	137.7	129.4	133.8	355.7	5466.8	3725	775	327.1	119.5	124.0	112.7	113.4
MEAN	4.44	4.31	4.32	11.5	189	120	25.8	10.6	3.98	4.00	3.64	3.78
MAX	13	5.1	7.7	61	802	367	40	15	7.3	6.1	5.2	5.9
MIN	1.9	3.7	3.0	5.0	5.9	37	16	7.0	2.1	3.0	2.4	2.3
AC-FT	273	257	265	706	10840	7390	1540	649	237	246	224	225
CAL YR 1979 TOTAL	2390.3			6.55	MAX 141	MIN 1.1	AC-FT 4740					
WTR YR 1980 TOTAL	11520.1			31.5	MAX 802	MIN 1.9	AC-FT 22850					

## 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 mi<sup>2</sup> (120.4 km<sup>2</sup>).

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.--30 years, 98.8 ft<sup>3</sup>/s (2.798 m<sup>3</sup>/s), 71,580 acre-ft/yr (88.3 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft<sup>3</sup>/s (303 m<sup>3</sup>/s) Jan. 5, 1978, gage height, 14.30 ft (4.359 m); minimum daily, 2.6 ft<sup>3</sup>/s (0.074 m<sup>3</sup>/s) Aug. 23, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft<sup>3</sup>/s (20 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 24	1830	1700 48.1	7.04 2.146	Feb. 21	0615	2280 64.6	7.68 2.341
Dec. 30	1645	1140 32.3	6.27 1.911	Feb. 28	0100	1140 32.3	6.19 1.887
Jan. 9	1930	1620 45.9	6.93 2.112	Mar. 3	0545	1140 32.3	6.19 1.887
Jan. 13	2200	*3670 104	9.27 2.825	Mar. 5	0445	1520 43.0	6.68 2.036
Feb. 17	2130	2150 60.9	7.53 2.295	Apr. 5	0815	1440 40.8	6.56 1.999

Minimum daily discharge, 16 ft<sup>3</sup>/s (0.45 m<sup>3</sup>/s) Oct. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	26	376	194	522	158	108	69	52	37	26
2	18	20	26	294	184	548	154	105	68	51	36	26
3	18	50	26	239	175	874	149	101	67	51	36	26
4	17	43	26	202	169	676	154	99	68	50	36	26
5	17	30	25	176	163	901	629	97	67	50	35	26
6	16	26	25	155	157	832	296	95	66	49	35	25
7	16	33	25	141	152	712	236	93	65	49	34	25
8	17	158	25	134	147	637	209	92	64	48	34	25
9	19	54	24	606	142	567	192	101	64	48	34	25
10	18	39	24	847	139	510	180	105	63	47	33	24
11	18	33	24	1650	136	461	170	93	62	47	33	24
12	18	30	24	2110	133	409	163	91	62	46	33	24
13	18	28	24	2540	133	376	157	88	62	46	32	24
14	21	27	24	2800	229	350	152	86	60	45	32	24
15	21	26	24	1930	295	325	147	84	59	45	32	23
16	19	30	24	1480	652	303	142	82	59	44	31	23
17	18	98	24	1250	1630	287	138	80	59	44	31	23
18	17	49	24	970	1660	276	135	79	58	43	30	23
19	31	39	30	764	1660	261	132	77	58	43	30	23
20	38	35	30	624	1710	249	131	76	57	42	30	22
21	22	32	37	520	2040	250	142	76	57	42	29	22
22	20	32	30	443	1650	236	142	74	56	41	29	22
23	19	38	72	389	1360	222	130	73	56	40	29	22
24	19	31	899	344	1090	212	124	74	55	40	28	22
25	121	30	546	311	867	218	120	74	55	39	28	21
26	38	36	300	284	726	199	117	73	54	39	27	21
27	25	31	207	263	698	187	115	73	54	38	27	21
28	22	29	160	247	748	179	122	72	53	38	27	21
29	21	28	133	233	589	172	115	71	53	38	27	21
30	21	27	567	217	---	166	111	71	52	37	27	20
31	21	---	528	205	---	160	---	70	---	37	26	---
TOTAL	742	1182	3983	22744	19628	12277	5062	2633	1802	1369	968	700
MEAN	23.9	39.4	128	734	677	396	169	84.9	60.1	44.2	31.2	23.3
MAX	121	158	899	2800	2040	901	629	108	69	52	37	26
MIN	16	20	24	134	133	160	111	70	52	37	26	20
AC-FT	1470	2340	7900	45110	38930	24350	10040	5220	3570	2720	1920	1390
CAL YR 1979	TOTAL	38358	MEAN	105	MAX	956	MIN	15	AC-FT	76080		
WTR YR 1980	TOTAL	73090	MEAN	200	MAX	2800	MIN	16	AC-FT	145000		

## CARMEL RIVER BASIN

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 mi<sup>2</sup> (500 km<sup>2</sup>).

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 hm<sup>3</sup>) and San Clemente Reservoir 4 mi (6 km) upstream, capacity, 1,600 acre-ft (1.97 hm<sup>3</sup>). Diversion from San Clemente Reservoir for municipal supply amounted to 9,180 acre-ft (11.3 hm<sup>3</sup>) for the current year.

AVERAGE DISCHARGE (unadjusted).--23 years, 82.0 ft<sup>3</sup>/s (2.322 m<sup>3</sup>/s), 59,410 acre-ft/yr (73.3 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft<sup>3</sup>/s (201 m<sup>3</sup>/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 ft<sup>3</sup>/s (196 m<sup>3</sup>/s) by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,920 ft<sup>3</sup>/s (168 m<sup>3</sup>/s) Feb. 19, gage height, 9.96 ft (3.036 m); minimum daily, 0.25 ft<sup>3</sup>/s (0.007 m<sup>3</sup>/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.95	16	236	131	523	184	128	67	30	2.1	3.2
2	.26	.95	16	184	124	554	179	124	66	42	1.9	3.2
3	.33	1.2	16	149	119	730	175	120	63	43	1.8	3.8
4	.36	1.2	15	123	116	607	174	117	63	36	1.8	3.5
5	.51	.97	14	105	111	763	340	114	62	33	2.2	3.4
6	.47	.92	11	93	107	801	289	113	60	31	5.5	3.4
7	.29	1.0	11	83	101	718	242	112	59	29	5.2	3.5
8	.61	1.5	5.2	79	103	657	218	109	57	28	4.9	3.2
9	.58	1.2	3.4	153	99	601	202	109	55	28	4.8	3.3
10	.43	1.1	2.7	599	96	555	192	120	53	30	4.9	3.3
11	.47	1.0	2.1	1130	95	519	183	111	52	24	4.5	3.2
12	.51	.93	2.0	1690	96	477	173	108	51	8.8	4.0	2.7
13	.52	1.2	1.8	1950	93	441	168	104	50	11	3.9	2.5
14	.57	9.3	1.7	2750	117	413	164	104	49	12	4.1	2.7
15	.63	12	1.7	1580	284	388	159	100	47	9.7	4.0	3.0
16	.64	14	1.6	1010	1150	364	156	97	46	9.7	3.6	4.2
17	.67	25	1.6	718	2410	343	151	92	44	11	3.7	4.3
18	.67	31	1.6	553	3010	332	147	90	43	11	3.9	4.5
19	.71	24	1.7	434	4130	311	143	87	42	7.9	3.6	4.7
20	1.2	17	1.8	353	2950	293	135	85	41	6.9	3.2	4.6
21	1.1	18	2.1	298	3820	298	163	83	39	4.5	2.9	4.6
22	1.3	29	1.8	260	2250	274	179	81	38	3.7	3.3	4.7
23	1.1	29	8.8	231	1580	256	167	81	37	3.0	3.2	4.5
24	.98	29	557	210	1190	244	154	81	36	2.8	3.0	4.6
25	1.1	28	539	193	957	258	146	79	35	2.7	2.7	4.6
26	1.1	25	230	178	796	244	142	77	35	2.3	2.7	4.4
27	.98	19	143	169	717	226	137	75	33	2.2	2.6	3.8
28	1.0	16	105	159	715	215	139	74	32	2.3	2.6	3.8
29	.99	14	86	152	587	203	142	72	30	2.6	2.7	3.7
30	.90	13	246	143	---	196	132	71	30	2.4	2.9	3.9
31	.90	---	343	138	---	190	---	69	---	2.5	3.3	---
TOTAL	22.13	366.42	2389.6	16103	28054	12994	5275	2987	1415	473.0	105.5	112.8
MEAN	.71	12.2	77.1	519	967	419	176	96.4	47.2	15.3	3.40	3.76
MAX	1.3	31	557	2750	4130	801	340	128	67	43	5.5	4.7
MIN	.25	.92	1.6	79	93	190	132	69	30	2.2	1.8	2.5
AC-FT	44	727	4740	31940	55650	25770	10460	5920	2810	938	209	224

CAL YR 1979 TOTAL 24838.56 MEAN 68.1 MAX 866 MIN .04 AC-FT 49270  
WTR YR 1980 TOTAL 70297.45 MEAN 192 MAX 4130 MIN .25 AC-FT 139400



## 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 mi<sup>2</sup> (637 km<sup>2</sup>).

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 hm<sup>3</sup>) and San Clemente Reservoir, capacity, 1,600 acre-ft (1.97 hm<sup>3</sup>). Diversion from San Clemente Reservoir for municipal supply amounted to 9,180 acre-ft (11.3 hm<sup>3</sup>) for the current year.

AVERAGE DISCHARGE (unadjusted).--18 years, 103 ft<sup>3</sup>/s (2.917 m<sup>3</sup>/s), 74,620 acre-ft/yr (92.0 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,620 ft<sup>3</sup>/s (244 m<sup>3</sup>/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, 5,880 ft<sup>3</sup>/s (167 m<sup>3</sup>/s) Feb. 19, gage height, 14.26 ft (4.346 m); no flow Oct. 1-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.18	1.3	214	145	796	223	155	73	32	1.3	.80
2	0	.19	1.4	163	140	834	215	148	71	43	1.2	.64
3	0	.22	.30	124	130	1060	213	145	69	61	1.3	.55
4	0	.23	.26	88	125	929	214	140	68	50	1.3	.51
5	0	.20	.29	58	118	1120	364	138	66	39	1.6	.59
6	0	.18	.33	37	114	1150	388	137	65	32	1.5	.58
7	0	.22	.36	27	111	1040	309	135	64	33	1.4	.77
8	0	.29	.36	23	108	939	281	132	62	33	1.3	.96
9	0	.25	.39	38	97	862	253	130	59	30	1.2	.89
10	0	.23	.43	443	87	791	241	148	56	30	1.1	.73
11	0	.25	.43	995	81	731	232	130	55	32	1.2	.79
12	0	.24	.39	1600	84	671	220	120	54	26	.93	.80
13	0	.24	.35	1940	85	608	208	118	53	16	.92	.78
14	0	.24	.30	2940	116	563	202	112	52	14	.93	.69
15	0	.23	.35	1330	281	524	203	110	51	17	1.1	.69
16	0	.39	.41	817	1000	484	207	105	49	22	.95	.66
17	.05	.89	.41	669	2400	449	194	100	48	20	.88	.55
18	.10	.48	.34	576	2900	429	186	97	46	21	1.0	.38
19	.15	.46	.48	484	4300	401	176	94	45	19	.80	.41
20	.23	.50	.68	428	3070	371	166	90	43	11	.69	.58
21	.21	.50	.77	350	3940	375	165	89	42	8.1	.69	.91
22	.25	.50	.68	300	2060	359	248	88	41	6.2	.75	.91
23	.22	.55	.86	280	1370	325	223	87	39	4.4	.51	.68
24	.20	.58	171	250	963	306	205	86	38	3.6	.58	.54
25	.22	.63	578	235	704	317	185	85	38	2.9	.60	.58
26	.21	.67	259	215	690	318	170	84	37	2.5	.68	.68
27	.19	.71	161	195	854	284	165	81	36	2.3	.79	.60
28	.20	.77	102	180	970	266	168	79	33	2.0	.80	.40
29	.19	.77	63	170	818	247	170	78	31	1.6	.80	.40
30	.18	.81	98	160	---	235	162	76	31	1.6	.80	.37
31	.17	---	233	155	---	229	---	75	---	1.5	.74	---
TOTAL	2.77	12.60	1676.87	15484	27861	18013	6556	3392	1515	617.7	30.34	19.42
MEAN	.089	.42	54.1	499	961	581	219	109	50.5	19.9	.98	.65
MAX	.25	.89	578	2940	4300	1150	388	155	73	61	1.6	.96
MIN	0	.18	.26	23	81	229	162	75	31	1.5	.51	.37
AC-FT	5.5	25	3330	30710	55260	35730	13000	6730	3010	1230	60	39
CAL YR 1979 TOTAL	34678.26			MEAN 95.0	MAX 1040	MIN 0	AC-FT 68780					
WTR YR 1980 TOTAL	75180.70			MEAN 205	MAX 4300	MIN 0	AC-FT 149100					

## 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 mi<sup>2</sup> (182.1 km<sup>2</sup>).

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 indefinite stage-discharge relation, May 11 to September 30, which are poor. No regulation or diversion above station. Water is stored in Santa Margarita Lake below station.

AVERAGE DISCHARGE.--38 years, 18.3 ft<sup>3</sup>/s (0.518 m<sup>3</sup>/s), 13,260 acre-ft/yr (16.3 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft<sup>3</sup>/s (527 m<sup>3</sup>/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 ft<sup>3</sup>/s (201 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft<sup>3</sup>/s (8.5 m<sup>3</sup>/s) and maximum (\*) from rating curve extended above 620 ft<sup>3</sup>/s (17.6 m<sup>3</sup>/s) on basis of slope-area measurement of peak flow:

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 13	2015	1060	30.0	13.61	4.148	Mar. 3	0630	1040	29.5	13.58	4.139
Feb. 17	2400	*5460	155	18.20	5.547	Mar. 6	0930	1260	35.7	13.93	4.246
Feb. 21	0545	3360	95.2	16.43	5.008						

Minimum daily discharge, 0.94 ft<sup>3</sup>/s (0.027 m<sup>3</sup>/s) Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.3	1.7	2.4	3.9	42	14	4.8	3.0	1.7	1.1	.99
2	1.0	1.3	1.7	2.2	3.8	58	13	4.5	2.9	2.5	1.1	.99
3	1.0	1.5	1.7	2.2	3.7	558	12	4.5	2.8	2.6	1.1	.99
4	1.0	1.6	1.7	2.2	3.7	241	12	4.5	2.8	2.4	1.1	.99
5	1.0	1.5	1.8	2.2	3.6	589	16	4.3	2.7	2.2	1.1	.99
6	.99	1.5	1.9	2.2	3.5	749	14	4.2	2.7	2.0	1.0	.99
7	1.0	1.5	1.9	2.2	3.5	357	12	4.0	2.6	1.9	1.0	.99
8	1.1	1.4	1.9	2.1	3.4	219	7.2	4.1	2.6	1.8	1.0	.99
9	1.2	1.4	1.9	2.8	3.4	161	5.2	4.8	2.5	1.8	1.0	.98
10	1.1	1.3	2.1	4.3	3.4	131	11	5.8	2.5	1.7	1.0	.98
11	1.1	1.3	2.2	12	3.4	106	10	5.3	2.4	1.6	1.0	.98
12	1.0	1.3	2.3	54	3.4	84	9.6	5.3	2.4	1.6	1.0	.98
13	1.0	1.3	2.3	316	3.4	73	9.0	5.0	2.3	1.5	1.0	.98
14	1.2	1.4	2.3	310	5.7	63	8.6	4.9	2.2	1.5	1.0	.97
15	1.2	1.4	2.5	73	33	56	8.0	4.7	2.2	1.4	1.0	.97
16	1.2	1.4	2.5	27	1230	48	7.5	4.5	2.2	1.4	1.0	.97
17	1.2	1.7	2.2	17	1460	44	7.1	4.4	2.1	1.4	1.0	.96
18	1.2	1.6	2.2	16	2850	43	6.8	4.2	2.1	1.3	1.0	.96
19	1.2	1.5	2.4	12	1640	41	6.5	4.1	2.1	1.3	1.0	.96
20	1.5	1.5	2.4	9.3	1220	38	6.1	4.0	2.0	1.3	1.0	.96
21	1.2	1.6	2.4	8.0	1680	35	5.9	3.9	2.0	1.3	1.0	.96
22	1.3	1.6	2.4	6.8	546	31	6.1	3.8	2.0	1.3	1.0	.96
23	1.3	1.6	2.7	6.1	272	26	6.2	3.7	1.9	1.2	1.0	.96
24	1.3	1.7	7.6	5.7	162	24	6.1	3.6	1.9	1.2	1.0	.96
25	1.4	1.7	3.7	5.4	112	23	6.0	3.5	1.9	1.2	1.0	.96
26	1.5	1.7	2.9	4.9	83	22	5.7	3.4	1.8	1.2	1.0	.95
27	1.3	1.7	2.5	4.5	66	20	5.5	3.4	1.8	1.2	1.0	.95
28	1.3	1.7	2.4	4.4	56	18	5.3	3.3	1.8	1.2	1.0	.94
29	1.3	1.7	2.2	4.4	47	16	5.1	3.2	1.7	1.2	1.0	.94
30	1.2	1.7	2.4	4.2	---	16	4.9	3.1	1.7	1.1	1.0	.94
31	1.2	---	2.4	4.0	---	15	---	3.0	---	1.1	1.0	---
TOTAL	36.49	45.4	75.2	929.5	11508.8	3947	252.4	129.8	67.6	48.1	31.5	29.09
MEAN	1.18	1.51	2.43	30.0	397	127	8.41	4.19	2.25	1.55	1.02	.97
MAX	1.5	1.7	7.6	316	2850	749	16	5.8	3.0	2.6	1.1	.99
MIN	.99	1.3	1.7	2.1	3.4	15	4.9	3.0	1.7	1.1	1.0	.94
AC-FT	72	90	149	1840	22830	7830	501	257	134	95	62	58
CAL YR 1979 TOTAL	3326.00			MEAN 9.11	MAX 679	MIN .16	AC-FT 6600					
WTR YR 1980 TOTAL	17100.88			MEAN 46.7	MAX 2850	MIN .94	AC-FT 33920					

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.

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.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft<sup>3</sup>/s (68.0 m<sup>3</sup>/s) Feb. 24, 1969, gage height, 8.3 ft (2.53 m) from floodmarks, from rating curve extended above 30 ft<sup>3</sup>/s (0.850 m<sup>3</sup>/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.--Peak discharges above base of 15 ft<sup>3</sup>/s (0.4 m<sup>3</sup>/s) and maximum (\*) from rating curve extended as explained above:

Minimum daily discharge, 0.31 ft<sup>3</sup>/s (0.009 m<sup>3</sup>/s) Oct. 19, 25.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	.33	.82	1.1	.89	4.4	1.3	1.2	1.0	.60	.43	.50
2	.56	.51	.83	1.1	.89	9.8	1.3	.80	1.0	.60	.43	.50
3	.56	.80	.85	.67	.89	57	1.3	.78	.99	.72	.43	.51
4	.50	1.3	.86	.55	.98	21	1.3	.75	.98	.78	.43	.51
5	.47	.95	.87	.65	1.1	84	1.8	.72	.96	.78	.43	.52
6	.45	.63	.87	.65	1.0	60	3.6	.71	.95	.78	.43	.52
7	.42	.82	.88	.65	1.0	34	2.8	.70	.92	.68	.43	.53
8	.40	.69	.89	.73	1.1	24	2.2	1.2	.90	.60	.43	.54
9	.39	.64	.89	1.1	1.1	14	2.0	1.5	.88	.58	.44	.54
10	.38	.56	.89	1.4	1.1	9.1	1.8	1.6	.86	.56	.44	.55
11	.37	.53	.89	2.7	1.1	6.3	1.6	1.5	.84	.55	.44	.56
12	.36	.52	.88	25	1.1	5.1	1.5	1.2	.82	.54	.44	.56
13	.35	.54	.88	102	1.1	4.3	1.4	1.1	.80	.52	.44	.57
14	.34	.55	.88	40	1.6	3.8	1.3	1.0	.79	.51	.44	.58
15	.33	.56	.88	16	1.9	3.4	1.2	.97	.77	.50	.44	.59
16	.33	.66	.88	9.0	24	3.1	1.1	.94	.76	.49	.44	.60
17	.32	1.0	.88	5.6	270	2.8	1.1	.91	.74	.48	.45	.60
18	.32	.76	.88	3.9	110	2.6	1.0	.90	.73	.47	.45	.62
19	.31	.69	.89	3.0	52	2.4	1.0	.88	.72	.46	.45	.63
20	.60	.65	.89	1.8	100	2.2	1.0	.85	.70	.46	.45	.64
21	.54	.66	.90	1.4	210	2.0	2.7	.82	.69	.45	.46	.64
22	.49	.69	.90	.89	43	1.9	2.3	.80	.68	.44	.46	.68
23	.36	.69	.93	.89	24	1.8	1.7	.80	.67	.44	.46	.68
24	.32	.74	3.1	.89	16	1.7	1.4	.82	.66	.44	.47	.69
25	.31	.71	1.6	.94	9.0	1.6	1.2	1.5	.65	.43	.47	.69
26	.59	.78	1.3	1.0	2.3	3.1	1.1	1.4	.64	.43	.47	.69
27	.50	.76	1.2	.91	2.1	2.6	1.1	1.2	.63	.43	.48	.69
28	.43	.77	1.1	.80	1.9	2.1	1.4	1.1	.62	.43	.48	.75
29	.38	.79	1.1	1.0	2.3	1.7	.89	1.1	.61	.43	.49	.82
30	.36	.81	1.2	2.5	---	1.5	1.3	1.0	.61	.43	.49	.96
31	.35	---	1.2	.89	---	1.4	---	1.0	---	.43	.49	---
TOTAL	12.95	21.09	32.01	229.71	883.45	374.7	46.69	31.75	23.57	16.44	13.98	18.46
MEAN	.42	.70	1.03	7.41	30.5	12.1	1.56	1.02	.79	.53	.45	.62
MAX	.60	1.3	3.1	102	270	84	3.6	1.6	1.0	.78	.49	.96
MIN	.31	.33	.82	.55	.89	1.4	.89	.70	.61	.43	.43	.50
AC=FT	26	42	63	456	1750	743	93	63	47	33	28	37
CAL YR 1979	TOTAL	331.53	MEAN	.91	MAX	8.7	MIN	.02	AC=FT	658		
WTR YR 1980	TOTAL	1704.80	MEAN	4.66	MAX	270	MIN	.31	AC=FT	3380		

## 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 mi<sup>2</sup> (15.31 km<sup>2</sup>).

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 fair except for period of no gage-height record, Mar. 12 to May 9, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--11 years, 2.22 ft<sup>3</sup>/s (0.063 m<sup>3</sup>/s), 1,610 acre-ft/yr (1.99 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,160 ft<sup>3</sup>/s (32.9 m<sup>3</sup>/s) Jan. 16, 1978, gage height, 5.88 ft (1.792 m), from rating curve extended above 67 ft<sup>3</sup>/s (1.90 m<sup>3</sup>/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 ft<sup>3</sup>/s (2.3 m<sup>3</sup>/s) and maximum (\*) from rating curve extended as explained above:

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 11	0315	201 5.69	2.60 0.792	Feb. 21	0445	*1450 41.1	6.12 1.865
Feb. 16	1400	1110 31.4	5.29 1.612	Mar. 3	0415	96 2.72	1.95 0.594
Feb. 19	0630	730 20.7	4.31 1.314	Mar. 5	0830	228 6.46	2.62 0.799

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	.16	4.9	.45	.07	.10	0		
2			0	0	.16	6.5	.43	.07	.12	.01		
3			0	0	.14	38	.70	.06	.13	0		
4			0	0	.13	10	1.2	.06	.14	0		
5			0	0	.13	56	1.8	.05	.12	0		
6			0	0	.11	48	2.4	.05	.09	0		
7			0	0	.10	22	1.7	.05	.04	0		
8			0	0	.10	13	1.4	.08	.04	0		
9			0	.05	.08	10	1.1	.41	.04	0		
10			0	7.2	.09	7.8	.87	1.2	.03	0		
11			0	50	.09	5.8	.70	.42	.03	0		
12			0	54	.08	4.8	.56	.29	.02	0		
13			0	70	.10	4.0	.47	.26	.02	0		
14			0	36	2.0	3.3	.40	.24	.02	0		
15			0	11	7.9	2.8	.35	.19	.02	0		
16			0	4.9	168	2.4	.30	.15	.02	0		
17			0	3.2	232	2.1	.27	.11	.01	0		
18			0	2.4	238	1.8	.24	.08	.01	0		
19			0	1.5	163	1.6	.21	.06	.01	0		
20			0	1.1	97	1.4	.19	.04	.01	0		
21			0	.91	204	1.3	.17	.05	.01	0		
22			0	.75	34	1.2	.16	.07	.01	0		
23			0	.63	17	1.1	.14	.05	.01	0		
24			0	.48	10	.93	.13	.08	.01	0		
25			.02	.42	7.1	.84	.12	.09	.01	0		
26			.01	.36	5.9	.76	.11	.08	0	0		
27			0	.33	5.7	.70	.10	.08	0	0		
28			0	.32	4.8	.64	.09	.07	0	0		
29			0	.31	4.8	.59	.08	.09	0	0		
30			0	.25	---	.54	.08	.09	0	0		
31		---	.01	.23	---	.50	---	.09	---	0		---
TOTAL	0	0	.04	246.34	1202.67	255.30	16.92	4.78	1.07	.01	0	0
MEAN	0	0	.001	7.95	41.5	8.24	.56	.15	.036	.0003	0	0
MAX	0	0	.02	70	238	56	2.4	1.2	.14	.01	0	0
MIN	0	0	0	0	.08	.50	.08	.04	0	0	0	0
AC-FT	0	0	.08	489	2390	506	34	9.5	2.1	.02	0	0
CAL YR 1979	TOTAL	427.68	MEAN	1.17	MAX	40	MIN	0	AC-FT	848		
WTR YR 1980	TOTAL	1727.13	MEAN	4.72	MAX	238	MIN	0	AC-FT	3430		

SALINAS RIVER BASIN

35

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 mi<sup>2</sup> (290 km<sup>2</sup>).

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 hm<sup>3</sup>) 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 m<sup>3</sup>) 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 hm<sup>3</sup>) Jan. 25, 1969, elevation, 1,313.30 ft (400.294 m); minimum, 1,730 acre-ft (2.13 hm<sup>3</sup>) Nov. 6-10, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 27,930 acre-ft (34.4 hm<sup>3</sup>) Feb. 18, elevation, 1,306.44 ft (398.203 m); minimum, 15,900 acre-ft (19.6 hm<sup>3</sup>) Jan. 9; minimum elevation, 1,289.16 ft (392.905 m) Jan. 9.

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 1979 TO SEPTEMBER 1980  
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17700	16900	16400	16100	20200	22900	23000	23000	22600	21800	20700	19400
2	17700	16800	16400	16000	20200	22700	23000	23000	22600	21800	20600	19300
3	17700	16800	16400	16000	20200	23200	23000	23000	22600	21700	20600	19300
4	17600	16800	16400	16000	20200	23500	23000	23000	22600	21700	20500	19300
5	17600	16800	16400	16000	20200	23300	23000	23000	22600	21700	20500	19200
6	17600	16800	16400	16000	20200	24100	23000	22900	22600	21600	20500	19200
7	17600	16800	16400	16000	20200	24100	23000	22900	22500	21600	20400	19200
8	17500	16800	16300	16000	20200	23600	23000	22900	22500	21600	20400	19200
9	17500	16800	16300	15900	20200	23300	23000	22900	22500	21500	20300	19100
10	17400	16700	16300	16000	20200	23000	23000	22900	22500	21500	20300	19100
11	17400	16700	16300	16300	20200	22800	23000	22900	22500	21500	20200	19100
12	17400	16700	16200	16700	20100	22800	23000	22900	22500	21400	20200	19000
13	17300	16700	16200	17100	20200	22900	23000	22900	22400	21400	20100	19000
14	17300	16700	16200	18500	20200	22900	23000	22900	22400	21300	20100	19000
15	17300	16700	16200	19400	20300	22900	23000	22800	22400	21300	20100	19000
16	17200	16700	16200	19700	20500	22900	23000	22800	22300	21300	20000	18900
17	17200	16600	16100	19800	204800	22900	23000	22800	22300	21200	20000	18900
18	17200	16600	16100	19900	27500	22900	23000	22800	22400	21200	19900	18900
19	17100	16600	16100	20000	25900	22900	23000	22800	22200	21200	19900	18900
20	17100	16600	16100	20000	25700	23000	23000	22800	22200	21100	19900	18800
21	17100	16600	16000	20100	25700	23000	23000	22700	22200	21100	19800	18800
22	17100	16600	16000	20100	24800	23000	23000	22700	22100	21100	19800	18800
23	17100	16600	16000	20100	24000	23000	23000	22700	22100	21000	19700	18700
24	17000	16500	16000	20100	23500	23000	23000	22700	22000	21000	19700	18700
25	17000	16500	16100	20200	23100	23000	23000	22700	22000	20900	19700	18700
26	17000	16500	16100	20200	22800	23000	23000	22600	22000	20900	19600	18700
27	17000	16500	16100	20200	23000	23000	23000	22600	21900	20900	19600	18600
28	16900	16500	16100	20200	23100	23000	22900	22600	21900	20800	19500	18600
29	16900	16500	16100	20200	23000	23000	23000	22600	21900	20800	19500	18600
30	16900	16500	16100	20200	---	23000	23000	22600	21800	20700	19500	18500
31	16900	---	16100	20200	---	23000	---	22600	---	20700	19400	---
MAX	17700	16900	16400	20200	27500	24100	23000	23000	22600	21800	20700	19400
MIN	16900	16500	16000	15900	20100	22700	22900	22600	21800	20700	19400	18500
(+)	1290.87	1290.11	1298.38	1296.43	1300.66	1300.68	1300.63	1300.10	1298.97	1297.25	1295.20	1293.70
(+)	-900	-400	-400	+4100	+2800	0	0	-400	-800	-1100	-1300	-900
(++)	552	450	437	372	293	0	102	571	473	685	686	641

CAL YR 1979 ‡ -1000 †† 6380

WTR YR 1980 ‡ +700 †† 5260

† 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.

## SALINAS RIVER BASIN

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 mi<sup>2</sup> (290 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and concrete contrl. 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.--7 years, 28.1 ft<sup>3</sup>/s (0.796 m<sup>3</sup>/s), 20,360 acre-ft/yr (25.1 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,160 ft<sup>3</sup>/s (203 m<sup>3</sup>/s) Feb. 10, 1978, gage height, 10.24 ft (3.121 m); no flow for many days in 1975-77 and several days in 1979, 80.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,970 ft<sup>3</sup>/s (141 m<sup>3</sup>/s) Feb. 18, gage height, 8.92 ft (2.719 m); minimum daily, no flow May 5, 19, June 3, 7-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	1.1	1.1	5.9	.04	136	35	.01	.01	4.1	4.5	5.0
2	4.2	1.1	1.1	6.3	.04	220	19	.01	.01	4.1	3.7	3.0
3	4.0	1.2	1.0	6.2	.03	459	24	.01	0	4.3	4.4	1.5
4	4.0	1.1	1.0	6.2	.03	521	26	.01	.16	4.0	3.6	.88
5	4.0	1.0	1.0	6.2	.03	581	38	0	.04	4.0	4.3	.88
6	4.0	1.3	1.1	6.2	.05	1080	45	.14	.01	4.1	4.8	.94
7	4.0	1.1	.94	6.4	.11	921	32	.02	0	4.1	4.6	.94
8	4.0	1.0	.94	6.4	.12	607	26	.01	0	4.1	4.6	1.0
9	4.3	1.0	.94	6.6	.03	438	26	.01	0	4.1	4.6	1.0
10	4.1	.85	2.8	6.7	.04	375	26	.01	.15	4.1	4.6	.88
11	4.1	.81	5.8	7.0	.03	185	20	.01	2.6	4.1	4.6	.82
12	4.1	.81	5.9	7.0	.03	89	11	.01	4.5	3.7	4.6	.82
13	4.1	.81	5.9	3.4	.02	85	2.2	.01	4.4	3.2	4.6	.72
14	4.1	.79	5.9	.35	.10	85	.01	.01	4.3	3.3	4.8	.73
15	4.1	.79	5.9	.38	.16	85	.05	.01	4.3	3.3	4.8	.78
16	4.7	.82	5.9	.15	.58	85	.91	.01	4.0	3.3	4.8	.81
17	4.0	.86	5.9	.10	1910	85	41	.01	4.1	3.6	4.8	1.1
18	4.0	.81	6.2	.07	4020	.29	19	.01	3.8	3.2	4.6	.81
19	4.0	.77	5.9	.06	3060	.44	.05	0	3.7	3.3	4.6	.84
20	4.0	.92	5.9	.03	2900	40	.02	.08	3.7	3.2	4.6	.82
21	4.0	.76	5.9	.03	2890	59	.20	.06	3.8	3.3	4.8	.81
22	4.0	.76	5.9	.17	1620	59	24	.02	3.8	3.3	4.8	.81
23	4.0	.75	5.9	.12	813	58	54	.02	3.8	2.5	4.8	1.1
24	3.1	.70	6.4	.06	531	58	19	.03	3.8	1.9	4.8	.82
25	3.2	.70	6.0	.03	419	20	.04	.03	3.8	1.9	4.8	.85
26	3.3	.99	6.1	.03	146	43	.02	.02	3.8	1.8	4.8	.88
27	1.8	1.2	5.9	.03	55	58	.01	.02	4.4	1.8	5.0	.88
28	1.1	1.1	5.9	.02	118	36	.02	.01	4.1	2.7	5.0	.88
29	1.1	1.1	5.9	.13	136	25	.20	.01	4.1	3.0	5.0	.88
30	1.4	1.1	5.9	.14	---	25	.03	.08	4.1	3.0	5.0	1.1
31	1.1	---	5.9	.08	---	8.6	---	.07	---	5.1	5.0	---
TOTAL	109.7	28.10	136.82	82.48	18619.44	6527.33	488.76	.76	79.28	105.5	144.3	33.28
MEAN	3.54	.94	4.41	2.66	642	211	16.3	.025	2.64	3.40	4.65	1.11
MAX	4.7	1.3	6.4	7.0	4020	1080	54	.14	4.5	5.1	5.0	5.0
MIN	1.1	.70	.94	.02	.02	.29	.01	0	0	1.8	3.6	.72
AC-FT	218	56	271	164	36930	12950	969	1.5	157	209	286	66
CAL YR 1979	TOTAL	3457.84	MEAN	9.47	MAX	738	MIN	0	AC-FT	6860		
WTR YR 1980	TOTAL	26355.75	MEAN	72.0	MAX	4020	MIN	0	AC-FT	52280		

## 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 mi<sup>2</sup> (47.1 km<sup>2</sup>).

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.--19 years, 14.1 ft<sup>3</sup>/s (0.399 m<sup>3</sup>/s), 10,220 acre-ft/yr (12.6 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,060 ft<sup>3</sup>/s (172 m<sup>3</sup>/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 ft<sup>3</sup>/s (36.8 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft<sup>3</sup>/s (17 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 14	0200	2010	56.9	8.06	2.457
Feb. 16	1315	*3430	97.1	9.35	2.850
Mar. 3	0500	615	17.4	6.01	1.832

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.06	11	7.4	27	6.2	2.3	1.5	.50	.04	
2		0	.06	3.2	6.7	114	5.6	2.1	1.6	.90	.04	
3		0	.06	2.0	6.3	294	4.3	2.6	1.5	1.2	.03	
4		0	.06	1.5	6.0	122	4.2	2.8	1.3	.81	.03	
5		0	.06	1.2	5.5	145	6.7	2.7	1.3	.54	.02	
6		0	.06	1.1	5.2	142	5.5	2.7	1.2	.35	.01	
7		0	.05	1.0	5.1	92	4.2	2.6	1.2	.23	.01	
8		0	.04	1.0	4.5	68	4.0	2.5	1.0	.22	0	
9		0	.04	2.2	4.3	52	3.8	2.8	.99	.22	0	
10		0	.05	38	4.3	43	3.5	5.3	.97	.20	0	
11		0	.06	306	4.0	35	3.2	3.4	.96	.15	0	
12		0	.06	653	4.0	28	3.1	2.8	.94	.11	0	
13		0	.06	459	4.8	24	2.9	2.7	.92	.11	0	
14		0	.05	679	13	21	2.9	2.6	.90	.12	0	
15		0	.06	136	30	19	2.8	2.3	.78	.13	0	
16		0	.06	95	686	16	2.7	2.3	.76	.11	0	
17		0	.06	64	651	15	2.6	2.1	.76	.11	0	
18		.12	.06	44	572	14	2.5	2.0	.91	.11	0	
19		.11	.06	31	406	12	2.4	1.9	.86	.11	0	
20		.04	.07	24	349	12	2.3	2.0	.84	.10	0	
21		.02	.15	20	350	11	2.3	2.0	.72	.08	0	
22		.01	.28	17	162	10	2.5	2.0	.62	.07	0	
23		.02	.55	14	100	9.6	2.3	1.8	.58	.07	0	
24		.03	12	13	66	9.1	2.3	1.9	.54	.07	0	
25		.04	7.5	12	47	9.2	2.3	1.9	.53	.07	0	
26		.06	1.9	11	37	8.8	2.0	1.8	.41	.06	0	
27		.06	1.0	9.9	40	7.9	2.0	1.8	.36	.06	0	
28		.06	.77	10	55	7.4	2.4	1.7	.23	.05	0	
29		.06	.65	11	32	9.3	2.5	1.5	.22	.05	0	
30		.06	7.3	8.5	---	13	2.2	1.6	.31	.05	0	
31		---	24	7.8	---	9.9	---	1.6	---	.04	0	---
TOTAL	0	.69	57.24	2687.4	3664.1	1400.2	98.2	72.1	25.71	7.00	.18	0
MEAN	0	.023	1.85	86.7	126	45.2	3.27	2.33	.86	.23	.006	0
MAX	0	.12	24	679	686	294	6.7	5.3	1.6	1.2	.04	0
MIN	0	0	.04	1.0	4.0	7.4	2.0	1.5	.22	.04	0	0
AC-FT	0	1.4	114	5330	7270	2780	195	143	51	14	.4	0
CAL YR 1979	TOTAL	3205.38	MEAN	8.78	MAX	282	MIN	0	AC-FT	6360		
WTR YR 1980	TOTAL	8012.82	MEAN	21.9	MAX	686	MIN	0	AC-FT	15890		

## SALINAS RIVER BASIN

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 mi<sup>2</sup> (1,010 km<sup>2</sup>).

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.--37 years, 92.0 ft<sup>3</sup>/s (2.605 m<sup>3</sup>/s), 66,650 acre-ft/yr (82.2 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,500 ft<sup>3</sup>/s (524 m<sup>3</sup>/s) Feb. 16, 1980, gage height, 15.99 ft (4.874 m); from rating curve extended above 6,200 ft<sup>3</sup>/s (176 m<sup>3</sup>/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 ft<sup>3</sup>/s (793 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft<sup>3</sup>/s (31 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 14	0715	6260	177	11.08	3.377	Mar. 3	0945	4130	117	9.91	3.021
Feb. 16	1700	*18500	524	15.99	4.874	Mar. 6	1330	3780	107	9.71	2.960

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	54	471	142	40	5.6	.30	0	
2				0	50	665	140	38	5.2	.25	0	
3				0	47	3000	144	36	4.9	.21	.01	
4				0	44	1900	129	35	4.5	.17	.01	
5				0	41	2190	147	33	4.2	.14	0	
6				0	38	3070	171	32	3.9	.10	0	
7				0	36	2440	155	30	3.6	.05	0	
8				0	34	1660	127	29	3.3	.01	0	
9				0	32	1040	102	28	3.0	0	0	
10				0	32	830	102	35	2.8	0	0	
11				283	29	735	97	50	2.6	0	0	
12				1890	30	510	93	38	2.4	0	0	
13				2130	33	439	89	30	2.2	0	0	
14				4380	41	404	86	25	2.0	0	0	
15				1100	166	391	82	21	1.9	0	0	
16				700	5310	358	78	18	1.7	0	0	
17				490	5470	324	74	17	1.5	0	0	
18				310	11800	313	71	15	1.4	0	0	
19				240	8800	280	68	14	1.3	0	0	
20				195	6510	238	65	13	1.2	0	0	
21				150	7440	243	62	12	1.1	0	0	
22				129	4280	248	59	11	.94	0	0	
23				105	2630	246	57	10	.84	0	0	
24				94	1750	232	54	9.5	.76	0	0	
25				87	1270	226	52	9.0	.68	0	0	
26				79	994	216	50	8.4	.60	0	0	
27				71	598	208	47	7.9	.53	0	0	
28				70	646	215	45	7.3	.47	0	0	
29				78	549	190	43	6.9	.40	0	0	
30				68	---	178	41	6.4	.35	0	0	
31		---		57	---	170	---	5.9	---	0	0	---
TOTAL	0	0	0	12706	58754	23630	2672	671.3	65.87	1.23	.02	0
MEAN	0	0	0	410	2026	762	89.1	21.7	2.20	.040	.0006	0
MAX	0	0	0	4380	11800	3070	171	50	5.6	.30	.01	0
MIN	0	0	0	0	29	170	41	5.9	.35	0	0	0
AC-FT	0	0	0	25200	116500	46870	5300	1330	131	2.4	.04	0

CAL YR 1979 TOTAL 18428.81 MEAN 50.5 MAX 2300 MIN 0 AC-FT 36550  
WTR YR 1980 TOTAL 98500.42 MEAN 269 MAX 11800 MIN 0 AC-FT 195400



## SALINAS RIVER BASIN

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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 mi<sup>2</sup> (2,388 km<sup>2</sup>), 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.--26 years, 30.1 ft<sup>3</sup>/s (0.85 m<sup>3</sup>/s), 21,810 acre-ft/yr (26.9 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,500 ft<sup>3</sup>/s (920 m<sup>3</sup>/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.--Peak discharges above base of 200 ft<sup>3</sup>/s (5.7 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	(m <sup>3</sup> /s)	Gage height (ft)	(m)	Date	Time	Discharge (ft <sup>3</sup> /s)	(m <sup>3</sup> /s)	Gage height (ft)	(m)
Feb. 17	0630	*3900	110	4.96	1.512	Mar. 6	2100	1090	30.9	3.44	1.049
Mar. 3	2100	884	25.0	3.26	0.994	Mar. 11	1045	220	6.23	2.44	0.744

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	0	19	7.1	.29				
2				0	0	22	6.6	.21				
3				0	0	334	6.8	.13				
4				0	0	331	6.1	.11				
5				0	0	291	6.9	.10				
6				0	0	621	8.0	0				
7				0	0	496	7.3	0				
8				0	0	230	6.1	0				
9				0	0	161	4.9	0				
10				0	0	121	4.2	0				
11				0	0	110	3.5	0				
12				0	0	80	2.9	0				
13				0	0	58	2.4	0				
14				0	0	41	2.1	0				
15				0	.19	49	1.8	0				
16				.07	244	37	1.5	0				
17				0	1690	26	1.3	0				
18				0	1890	23	1.1	0				
19				0	1810	23	.90	0				
20				0	1660	24	.76	0				
21				0	1380	24	.65	0				
22				0	543	24	.92	0				
23				0	251	23	1.6	0				
24				0	170	20	2.5	0				
25				0	110	18	.86	0				
26				0	81	16	.54	0				
27				0	53	14	.39	0				
28				0	39	12	.28	0				
29				0	27	11	.35	0				
30				0	---	9.5	.51	0				
31		---		0	---	8.0	---	0	---			---
TOTAL	0	0	0	.07	9948.19	3276.5	90.86	.84	0	0	0	0
MEAN	0	0	0	.002	343	106	3.03	.027	0	0	0	0
MAX	0	0	0	.07	1890	621	8.0	.29	0	0	0	0
MIN	0	0	0	0	0	8.0	.28	0	0	0	0	0
AC-FT	0	0	0	.1	19730	6500	180	1.7	0	0	0	0
CAL YR 1979	TOTAL	1581.58	MEAN	4.33	MAX	285	MIN	0	AC-FT	3140		
WTR YR 1980	TOTAL	13316.46	MEAN	36.4	MAX	1890	MIN	0	AC-FT	26410		

## SALINAS RIVER BASIN

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 mi<sup>2</sup> (404 km<sup>2</sup>).

## 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.--9 years, 214 ft<sup>3</sup>/s (6.060 m<sup>3</sup>/s), 155,000 acre-ft/yr (191 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,000 ft<sup>3</sup>/s (1,610 m<sup>3</sup>/s) Jan. 16, 1978, gage height, 32.00 ft (9.754 m), from rating curve extended above 4,100 ft<sup>3</sup>/s (116 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10,000 ft<sup>3</sup>/s (283 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 11	0645	12100	343	18.91	5.764
Feb. 17	2230	*29500	835	25.10	7.650
Feb. 21	0245	10400	295	18.84	5.742

Minimum daily discharge, no flow Oct. 1-19, Sept. 20-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.02	5.7	300	113	426	122	78	31	7.9	.44	.09
2	0	.02	5.3	200	106	499	118	75	31	8.5	.37	.07
3	0	.03	4.8	150	97	2010	114	70	28	11	.31	.05
4	0	.03	5.3	120	91	972	112	66	26	11	.24	.05
5	0	.04	5.7	105	86	1580	395	62	26	8.9	.21	.04
6	0	.03	5.7	92	80	1630	313	60	26	7.5	.20	.04
7	0	.03	5.7	82	72	1030	212	58	25	6.5	.18	.04
8	0	7.8	6.1	73	67	781	179	56	24	5.9	.16	.04
9	0	59	6.1	611	62	645	160	56	22	5.6	.18	.05
10	0	13	6.8	1870	59	566	149	80	20	5.5	.20	.05
11	0	7.7	5.8	7020	56	507	133	70	19	5.1	.18	.05
12	0	5.3	5.5	6610	54	446	122	62	18	4.5	.14	.04
13	0	3.6	5.8	4600	54	401	114	58	17	4.1	.12	.03
14	0	3.3	6.0	6950	1100	367	109	55	17	3.9	.12	.03
15	0	2.6	6.0	2370	1510	333	106	52	16	3.8	.12	.02
16	0	2.6	5.9	1550	8330	302	102	49	15	3.4	.10	.02
17	0	4.0	6.0	1110	10100	278	97	47	14	2.9	.09	.01
18	0	13	6.1	860	7570	260	93	44	13	2.7	.07	.01
19	0	17	6.3	638	7680	244	93	41	12	2.5	.07	.01
20	.01	11	6.4	497	4610	222	91	39	12	2.2	.08	0
21	.02	8.2	9.1	408	6240	212	90	37	11	2.1	.06	0
22	.02	7.2	11	340	1930	208	95	38	10	1.9	.05	0
23	.02	6.6	14	281	1160	189	92	36	9.8	1.7	.05	0
24	.02	6.1	23	241	858	176	89	35	9.7	1.5	.06	0
25	.03	6.1	400	214	653	176	85	36	9.3	1.3	.24	0
26	.04	6.1	250	186	545	177	81	35	9.0	1.1	.25	0
27	.03	5.7	170	167	502	158	79	34	8.6	.93	.22	0
28	.02	6.1	90	155	685	148	85	34	8.1	.79	.19	0
29	.02	6.1	52	165	489	140	101	33	7.3	.66	.16	0
30	.02	5.7	120	136	---	133	84	32	7.1	.49	.14	0
31	.02	---	480	121	---	127	---	31	---	.48	.11	---
TOTAL	.27	214.00	1736.1	38222	54959	15343	3815	1559	501.9	126.35	5.11	.74
MEAN	.009	7.13	56.0	1233	1895	495	127	50.3	16.7	4.08	.16	.025
MAX	.04	59	480	7020	10100	2010	395	80	31	11	.44	.09
MIN	0	.02	4.8	73	54	127	79	31	7.1	.48	.05	0
AC-FT	.5	424	3440	75810	109000	30430	7570	3090	996	251	10	1.5
CAL YR 1979	TOTAL	47021.11	MEAN 129	MAX 4080	MIN 0	AC-FT 93270						
WTR YR 1980	TOTAL	116482.47	MEAN 318	MAX 10100	MIN 0	AC-FT 231000						

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 1979 TO SEPTEMBER 1980

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	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										
10...	1225	9.0	6.6	4	.07	--	--	--	--	--
JAN										
07...	1435	11.5	87	3	.70	--	--	--	--	--
FEB										
21...	1330	13.5	5160	443	6170	43	51	70	92	100
APR										
18...	1530	20.5	96	4	1.0	--	--	--	--	--
MAY										
16...	1230	29.0	50	3	.40	--	--	--	--	--
JUN										
07...	1140	21.0	26	2	.14	--	--	--	--	--
AUG										
05...	1700	30.0	.22	1	.00	--	--	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT							
29...	1320	1	.02	12	36	73	94
29...	1325	1	.02	3	10	38	78
29...	1330	1	.02	0	1	2	6
29...	1335	1	.02	3	12	54	99
29...	1340	1	.02	1	3	10	24

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
OCT						
29...	98	99	100	--	--	--
29...	89	92	94	97	97	100
29...	9	16	26	42	71	100
29...	100	--	--	--	--	--
29...	37	46	55	71	89	100

## 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 mi<sup>2</sup> (826 km<sup>2</sup>). 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 hm<sup>3</sup>); usable capacity, 340,000 acre-ft (419 hm<sup>3</sup>) 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 hm<sup>3</sup>). 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 hm<sup>3</sup>) Apr. 7, 1958, elevation, 804.7 ft (245.27 m); minimum observed since appreciable storage was attained, 10,910 acre-ft (13.5 hm<sup>3</sup>) Oct. 11, 1960, elevation, 670.8 ft (204.46 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 309,900 acre-ft (382 hm<sup>3</sup>) Feb. 22, elevation, 792.00 ft (241.402 m); minimum observed, 174,300 acre-ft (215.0 hm<sup>3</sup>) Dec. 17-23, elevation, 760.00 ft (231.648 m).

11150100 LAKE SAN ANTONIO.--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 mi<sup>2</sup> (855 km<sup>2</sup>). 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 hm<sup>3</sup>); usable capacity, 330,000 acre-ft (407 hm<sup>3</sup>) 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 hm<sup>3</sup>). 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, 357,000 acre-ft (440 hm<sup>3</sup>) Feb. 26-28, 1980, elevation, 781.2 ft (238.11 m); minimum since appreciable storage was attained, 22,000 acre-ft (27.1 hm<sup>3</sup>) Dec. 13-17, 1977, elevation, 664.50 ft (202.540 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 357,000 acre-ft (440 hm<sup>3</sup>) Feb. 26-28, elevation, 781.20 ft (238.110 m); minimum, 247,100 acre-ft (305 hm<sup>3</sup>) Dec. 23, elevation, 760.35 ft (231.755 m).

## MONTHEND CONTENTS, IN ACRE-FEET, AT 2400, OCTOBER 1979 TO SEPTEMBER 1980

Date.	Lake Nacimiento	Lake San Antonio
Sept. 30, 1979.	199600	253200
Oct. 31.....	186300	249600
Nov. 30.....	177200	247800
Dec. 31.....	191500	250700
Jan. 31, 1980..	202600	284000
Feb. 29.....	278900	355800
Mar. 31.....	287500	336500
Apr. 30.....	296500	344200
May 31.....	295500	344800
June 30.....	285300	336800
July 31.....	267400	324500
Aug. 31.....	242300	310200
Sept. 30.....	225800	302400

## 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 mi<sup>2</sup> (834 km<sup>2</sup>).

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).--23 years, 281 ft<sup>3</sup>/s (7.958 m<sup>3</sup>/s), 203,600 acre-ft/yr (251 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,340 ft<sup>3</sup>/s (208 m<sup>3</sup>/s) Feb. 25, 1969, gage height, 10.92 ft (3.328 m); no flow for many days in each year except 1964, 1966-76, 1978-80.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,960 ft<sup>3</sup>/s (140 m<sup>3</sup>/s) Feb. 22, gage height, 9.38 ft (2.859 m); minimum daily, 0.84 ft<sup>3</sup>/s (0.024 m<sup>3</sup>/s) Feb. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	199	125	2.7	20	1780	4.4	21	96	247	372	366
2	252	199	126	2.7	20	1780	4.3	21	96	247	373	363
3	251	200	125	2.6	20	1800	4.4	21	96	246	373	367
4	251	199	125	2.7	20	1810	4.4	21	95	246	372	367
5	251	198	126	2.9	20	1830	4.6	21	96	245	371	365
6	252	198	104	2.9	20	1850	4.3	21	95	247	370	363
7	252	198	82	2.9	20	1850	4.1	21	96	248	370	363
8	251	158	82	2.9	20	1850	4.1	21	96	248	370	319
9	251	126	82	3.6	20	1840	4.1	21	96	248	369	237
10	251	126	83	4.1	20	1830	4.1	21	96	248	368	237
11	251	125	82	1560	18	1810	4.1	21	96	248	368	237
12	251	125	82	3620	5.1	1800	4.1	20	96	248	367	237
13	251	125	82	3920	.84	1350	4.1	20	96	248	367	237
14	250	125	62	4170	.88	11	4.1	20	96	248	367	237
15	249	125	17	4290	1.4	6.6	4.1	20	96	248	367	237
16	251	125	17	4220	6.8	6.0	4.0	20	96	248	367	237
17	251	126	17	4120	1300	5.8	4.0	20	182	248	367	237
18	250	125	17	3990	4340	5.7	4.0	20	248	248	367	237
19	189	125	17	3920	4600	5.6	4.0	20	248	248	367	237
20	128	126	16	3740	4740	5.7	4.1	50	247	248	367	237
21	126	125	17	3520	4910	5.6	4.1	94	247	249	367	239
22	127	125	17	3300	4930	5.7	8.3	95	247	250	367	239
23	127	125	17	3090	4880	5.7	22	94	248	250	367	239
24	127	125	18	2860	4790	5.2	21	95	246	250	367	239
25	127	125	4.4	1980	4700	5.1	21	95	247	250	367	239
26	127	124	3.0	1090	4600	5.1	21	94	248	250	367	239
27	128	125	2.7	1370	4500	5.0	21	94	248	250	367	239
28	127	125	2.5	1580	3550	5.0	21	95	248	300	367	239
29	126	125	2.3	935	2040	4.5	21	95	248	372	367	239
30	162	126	2.5	569	---	4.5	21	95	248	372	367	239
31	199	---	2.3	20	---	4.5	---	95	---	372	367	---
TOTAL	6337	4303	1557.7	57894.0	54113.02	23282.3	264.8	1482	4934	8115	11416	8107
MEAN	204	143	50.2	1868	1866	751	8.83	47.8	164	262	368	270
MAX	252	200	126	4290	4930	1850	22	95	248	372	373	367
MIN	126	124	2.3	2.6	.84	4.5	4.0	20	95	245	367	237
AC-FT	12570	8530	3090	114800	107300	46180	525	2940	9790	16100	22640	16080
CAL YR 1979 TOTAL		90646.70	MEAN 248	MAX 2540	MIN 2.3	AC-FT 179800						
WTR YR 1980 TOTAL		181805.82	MEAN 497	MAX 4930	MIN .84	AC-FT 360600						

## 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 mi<sup>2</sup> (578 km<sup>2</sup>).

## 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.--15 years, 108 ft<sup>3</sup>/s (3.059 m<sup>3</sup>/s), 78,250 acre-ft/yr (96.5 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft<sup>3</sup>/s (396 m<sup>3</sup>/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 ft<sup>3</sup>/s (42 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 12	0800	2990 84.7	8.70 2.652	Mar. 3	0930	1870 53.0	8.01 2.441
Feb. 18	0130	*6300 178	10.53 3.210	Mar. 5	1100	1680 47.6	7.85 2.393
Feb. 21	1015	4990 141	9.87 3.008				

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	201	155	537	157	107	49	7.1		
2			0	128	147	517	151	99	47	8.7		
3			0	105	141	1290	145	93	40	14		
4			0	88	134	997	146	87	49	16		
5			0	78	128	1110	312	82	43	11		
6			0	69	124	1180	295	80	45	8.4		
7			0	54	118	903	220	76	40	7.0		
8			0	52	115	765	198	74	37	6.4		
9			0	103	113	671	185	77	35	6.7		
10			0	477	111	599	173	107	33	6.9		
11			0	1170	108	557	164	98	33	7.6		
12			0	1800	104	515	154	84	33	4.0		
13			0	1680	104	470	146	79	31	3.9		
14			0	1960	139	440	143	74	31	4.0		
15			0	1240	323	411	143	72	27	4.0		
16			0	981	1940	373	139	72	23	2.7		
17			0	757	2760	342	137	71	19	2.4		
18			0	625	3910	326	130	66	18	2.1		
19			0	511	3800	306	125	62	17	1.8		
20			0	439	2890	286	122	58	18	1.8		
21			0	394	3310	273	119	53	13	2.8		
22			0	362	2330	260	128	54	11	1.4		
23			0	328	1900	244	122	50	11	1.0		
24			106	296	1550	230	118	49	9.5	.63		
25			319	269	1230	224	112	52	8.5	.38		
26			158	243	957	215	108	52	7.9	.20		
27			89	221	690	200	103	53	7.1	.12		
28			57	205	782	189	113	57	6.8	.07		
29			37	193	621	182	137	53	6.4	.04		
30			155	173	---	174	115	52	6.8	.01		
31		---	371	162	---	165	---	48	---	0	---	---
TOTAL	0	0	1292	15364	30734	14951	4560	2191	756.0	133.15	0	0
MEAN	0	0	41.7	496	1060	482	152	70.7	25.2	4.30	0	0
MAX	0	0	371	1960	3910	1290	312	107	49	16	0	0
MIN	0	0	0	52	104	165	103	48	6.4	0	0	0
AC-FT	0	0	2560	30470	60960	29660	9040	4350	1500	264	0	0
CAL YR 1979	TOTAL	27254.67	MEAN	74.7	MAX	1080	MIN	0	AC-FT	54060		
WTR YR 1980	TOTAL	69981.15	MEAN	191	MAX	3910	MIN	0	AC-FT	136800		

## 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 1979 TO SEPTEMBER 1980

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)
JAN					
07...	1235	15.0	57	16	2.5
FEB					
27...	1345	15.5	711	377	724
APR					
17...	1220	23.5	138	40	15
MAY					
17...	1535	29.0	72	32	6.2
JUN					
07...	1515	30.0	37	14	1.4

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT							
29...	1410	1	.00	--	--	5	30
29...	1415	1	.00	--	1	5	30
29...	1420	1	.00	10	27	46	53
AUG							
05...	1140	1	.00	--	2	11	23
05...	1145	1	.00	1	2	5	10
05...	1150	1	.00	--	1	5	21
05...	1155	1	.00	--	--	2	14
05...	1200	1	.00	--	2	11	26
05...	1205	1	.00	--	1	11	31
05...	1210	1	.00	--	--	1	16
05...	1215	1	.00	1	5	32	76

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT							
29...	54	73	85	90	100	--	--
29...	65	83	90	94	98	100	--
29...	62	73	77	81	86	100	--
AUG							
05...	48	79	94	97	100	--	--
05...	17	25	32	39	56	78	100
05...	45	70	84	92	99	100	--
05...	33	44	54	63	80	90	100
05...	43	58	71	80	91	94	100
05...	58	80	89	94	98	100	--
05...	58	91	98	100	--	--	--
05...	97	99	100	--	--	--	--

## SALINAS RIVER BASIN

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 mi<sup>2</sup> (6,566 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1285: 1950.

GAGE.--Water-stage recorder. Datum of gage is 442.69 ft (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 Lake San Antonio (station 11150100) beginning in December 1965. Several small diversions above station.

AVERAGE DISCHARGE (unadjusted).--32 years, 457 ft<sup>3</sup>/s (12.94 m<sup>3</sup>/s), 331,100 acre-ft/yr (408 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117,000 ft<sup>3</sup>/s (3,310 m<sup>3</sup>/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, 28,000 ft<sup>3</sup>/s (793 m<sup>3</sup>/s) Feb. 19, gage height, 13.55 ft (4.130 m); minimum daily, 1.5 ft<sup>3</sup>/s (0.042 m<sup>3</sup>/s) Feb. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	318	275	142	20	83	3570	170	106	125	369	519	546
2	334	277	142	18	59	3540	161	79	125	416	528	539
3	328	274	142	17	38	5660	156	79	125	427	539	536
4	329	269	142	16	16	5680	150	79	211	423	547	534
5	328	264	142	15	10	5100	142	79	247	414	553	532
6	315	267	140	14	16	6950	150	81	224	408	559	532
7	316	253	111	13	11	6970	162	80	224	408	549	550
8	323	253	91	13	8.5	5260	154	79	223	411	546	556
9	323	176	96	15	8.9	3990	148	77	221	411	546	492
10	323	156	99	16	8.2	3600	135	77	222	377	546	424
11	329	147	100	143	8.1	4310	127	78	226	451	546	406
12	331	159	99	2370	6.9	4060	122	81	222	449	546	380
13	333	175	96	4750	2.6	3780	118	78	215	451	539	374
14	333	167	97	6680	1.5	2050	110	77	210	448	549	370
15	325	157	87	5800	2.9	1730	103	77	206	449	560	361
16	292	155	57	4380	2080	1640	100	77	210	451	564	358
17	283	158	59	4020	7140	1590	100	77	212	449	569	357
18	274	151	55	3700	21200	1550	100	77	303	446	560	350
19	280	146	47	3580	23000	1510	100	76	348	448	556	349
20	196	146	46	3420	19400	1440	100	76	353	446	550	341
21	167	148	48	3150	17900	950	100	78	340	442	549	337
22	165	145	47	2900	12300	352	100	125	331	433	552	333
23	168	145	43	2680	8110	311	105	125	331	425	548	325
24	162	144	57	2490	6650	282	110	125	333	414	542	322
25	164	146	59	2150	6020	269	117	125	348	416	535	321
26	167	143	49	1080	5730	259	123	125	353	415	542	315
27	163	142	39	989	5360	213	112	125	355	416	546	307
28	162	142	35	1650	5020	202	103	125	355	414	538	303
29	150	142	28	956	3700	198	93	125	360	520	542	303
30	147	142	27	902	---	183	85	125	364	548	546	299
31	240	---	24	225	---	173	---	125	---	542	546	---
TOTAL	8068	5464	2446	58172	143890.6	77372	3656	2918	7922	13537	16957	12052
MEAN	260	182	78.9	1877	4962	2496	122	94.1	264	437	547	402
MAX	334	277	142	6680	23000	6970	170	125	364	548	569	556
MIN	147	142	24	13	1.5	173	85	76	125	369	519	299
AC-FT	16000	10840	4850	115400	285400	153500	7250	5790	15710	26850	33630	23910
CAL YR 1979 TOTAL	115022.0		MEAN 315	MAX 2370	MIN 24	AC-FT 228100						
WTR YR 1980 TOTAL	352454.6		MEAN 963	MAX 23000	MIN 1.5	AC-FT 699100						



11150500 SALINAS RIVER NEAR BRADLEY, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: October 1979 to September 1980.

COOPERATION.--Chemical-quality records were furnished by California Department of Water Resources.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO
OCT 23...	1415	30	342	7.7	18.0	--	150	35	15	14	17	.5
NOV 27...	1215	25	360	8.0	12.0	11.0	150	35	15	17	20	.6
DEC 27...	0900	25	573	8.0	5.0	12.9	220	54	22	34	25	1.0
JAN 23...	1115	1000	259	7.9	11.0	10.3	110	25	12	10	16	.4
FEB 27...	0845	2500	--	7.8	12.0	9.7	--	--	--	--	--	--
MAR 26...	1145	200	--	8.2	13.0	10.5	--	--	--	--	--	--
APR 22...	1300	100	829	8.2	20.0	9.6	320	78	31	56	27	1.4
MAY 20...	1600	100	692	8.2	23.5	8.7	280	68	26	42	25	1.1
JUN 25...	1115	200	349	8.3	18.0	9.7	150	37	15	17	19	.6
JUL 22...	1300	100	351	8.3	23.0	9.3	150	36	14	14	17	.5
AUG 26...	1300	110	332	8.2	23.0	9.5	140	35	13	13	17	.5
SEP 23...	1250	35	335	7.6	20.5	9.7	140	34	13	14	18	.5
DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	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, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)
OCT 23...	1.5	8.0	214	.29	17.3	.09	.07	.00	.70	.050	.02	0
NOV 27...	1.4	10	217	.30	14.6	--	.07	.00	.20	.400	.02	--
DEC 27...	1.9	22	364	.50	24.6	--	.29	.00	.10	.070	.05	--
JAN 23...	1.2	9.0	166	.23	448	--	.12	.00	.30	.100	.02	0
FEB 27...	--	--	--	--	--	--	.27	.00	.60	.360	.04	--
MAR 26...	--	--	--	--	--	--	--	--	--	--	--	--
APR 22...	3.0	48	549	.75	148	--	.47	.01	.30	.140	.08	0
MAY 20...	2.8	35	447	.61	121	--	.09	.00	.20	.080	.03	--
JUN 25...	1.6	11	209	.28	113	--	.12	.01	.30	.120	.05	0
JUL 22...	1.7	9.0	220	.30	59.4	--	.09	.00	.30	.110	.06	0
AUG 26...	1.7	8.0	211	.29	62.7	--	.11	.00	.30	.110	.06	--
SEP 23...	1.8	9.0	207	.28	19.6	--	.15	.01	.70	.170	.12	--

11150500 SALINAS RIVER NEAR BRADLEY, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

## 49

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.

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

REMARKS.--Records fair except those for periods of no gage-height record, Apr. 7 to June 9 and Aug. 21 to Sept. 30, which are poor. No regulation; small diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft<sup>3</sup>/s (306 m<sup>3</sup>/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.

Date	Time	Discharge (ft <sup>3</sup> /s)	(m <sup>3</sup> /s)	Gage height (ft)	(m)	Date	Time	Discharge (ft <sup>3</sup> /s)	(m <sup>3</sup> /s)	Gage height (ft)	(m)
Dec. 24	2000	293	8.30	5.91	1.801	Feb. 16	1830	*1470	41.6	8.07	2.460
Jan. 14	2315	355	10.1	6.10	1.859	Mar. 6	1445	365	10.3	6.13	1.868

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	2.0	3.3	9.0	7.4	24	14	9.2	4.9	2.0	.91	1.7
2	1.1	2.1	3.3	5.9	6.9	28	13	8.0	4.8	2.9	.82	1.1
3	1.1	2.3	3.3	4.2	6.4	180	13	7.0	4.7	4.5	.78	1.1
4	1.2	2.7	3.1	3.5	6.0	77	14	5.6	4.6	3.3	.84	1.1
5	1.3	2.8	2.8	3.2	5.8	177	33	5.0	4.5	2.0	.91	.98
6	1.4	2.7	2.7	2.8	5.3	261	44	5.0	4.3	1.9	1.0	.95
7	1.4	2.4	2.7	2.5	5.0	127	17	4.9	3.9	1.9	.97	1.0
8	1.3	2.9	2.5	2.4	4.8	96	14	4.8	3.6	1.8	.90	1.2
9	1.3	2.5	2.5	4.6	4.6	76	13	4.9	3.4	2.0	.90	1.3
10	1.3	2.3	2.7	7.6	4.4	67	12	9.0	2.2	2.0	.85	1.3
11	1.3	2.4	2.6	62	4.3	64	11	15	1.9	1.4	.80	1.2
12	1.3	2.5	2.6	144	4.1	56	10	9.6	1.6	1.4	.80	1.2
13	1.4	2.7	2.6	110	4.2	51	9.5	7.6	1.6	1.9	.79	1.2
14	1.3	2.8	2.5	194	6.3	47	9.2	8.2	1.6	1.7	.84	1.2
15	1.4	3.0	3.2	140	9.0	44	9.6	7.4	1.7	1.6	1.1	1.3
16	1.5	3.2	3.3	94	274	41	8.9	5.5	1.4	1.5	1.1	1.4
17	1.4	3.5	3.4	73	277	39	8.1	5.3	1.4	1.4	.97	1.4
18	1.1	3.5	3.5	58	263	39	7.6	4.8	1.4	1.4	1.0	1.2
19	1.3	2.8	3.3	45	459	37	7.3	4.6	1.3	1.4	1.1	1.2
20	1.6	2.3	3.3	36	262	34	7.1	4.2	1.3	1.4	1.3	1.3
21	1.8	2.0	3.5	29	289	33	6.9	4.6	1.0	1.3	1.2	1.2
22	1.7	2.1	3.2	24	110	33	6.8	4.9	.83	1.3	1.1	1.2
23	1.8	2.3	2.7	20	83	30	12	5.1	.80	1.2	1.0	1.2
24	1.9	2.4	21	18	58	27	7.4	6.0	.82	1.2	1.1	1.1
25	2.1	2.4	39	15	45	29	6.8	8.0	.78	1.1	1.2	1.1
26	2.7	2.6	20	13	37	33	5.1	7.2	.86	1.1	1.1	1.1
27	2.1	2.7	12	12	31	25	5.4	6.6	.75	.98	1.0	1.0
28	2.0	3.2	7.6	11	47	22	12	5.9	.67	.89	.96	1.1
29	1.9	2.9	5.5	9.7	32	20	29	5.4	.73	.86	.97	1.2
30	1.9	3.0	6.8	8.8	---	18	12	5.1	1.3	.91	1.0	1.2
31	2.0	---	9.6	8.1	---	16	---	5.0	---	1.0	1.1	---
TOTAL	48.0	79.0	190.1	1170.3	2351.5	1851	379.3	199.4	64.64	51.24	30.41	35.23
MEAN	1.55	2.63	6.13	37.8	81.1	59.7	12.6	6.43	2.15	1.65	.98	1.17
MAX	2.7	3.5	39	194	459	261	44	15	4.9	4.5	1.3	1.4
MIN	1.1	2.0	2.5	2.4	4.1	16	5.4	4.2	.67	.86	.78	.95
AC-FT	95	157	377	2320	4660	3670	752	396	128	102	60	70
CAL YR 1979	TOTAL	3898.00	MEAN	10.7	MAX	465	MIN	.12	AC-FT	7730		
WTR YR 1980	TOTAL	6450.12	MEAN	17.6	MAX	459	MIN	.67	AC-FT	12790		

## SALINAS RIVER BASIN

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 mi<sup>2</sup> (293 km<sup>2</sup>).

## 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, Jan. 27, Feb. 13-23, and May 20 to July 21, which are poor. No regulation; small diversion for fishponds above station by pumping.

AVERAGE DISCHARGE.--19 years, 152 ft<sup>3</sup>/s (4.305 m<sup>3</sup>/s), 110,100 acre-ft/yr (136 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,800 ft<sup>3</sup>/s (617 m<sup>3</sup>/s) Dec. 6, 1966, gage height, 14.50 ft (4.420 m), present datum, from rating curve extended above 5,700 ft<sup>3</sup>/s (161 m<sup>3</sup>/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 ft<sup>3</sup>/s (42 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 24	1715	3180 90.1	12.58 3.834	Feb. 21	0300	7400 210	14.12 4.304
Jan. 9	1930	2200 62.3	11.98 3.652	Feb. 27	2100	1640 46.4	10.10 3.078
Jan. 13	1500	*7640 216	14.18 4.322	Mar. 3	0400	1800 51.0	10.37 3.161
Feb. 16	2230	4250 120	13.02 3.968	Mar. 5	0445	2460 69.7	11.34 3.456

Minimum daily discharge, 14 ft<sup>3</sup>/s (0.396 m<sup>3</sup>/s) Oct. 13, 18, Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	21	31	523	207	1030	230	138	86	54	28	20
2	19	21	30	461	200	1110	220	136	84	73	28	20
3	19	54	29	422	193	1500	210	132	82	69	27	20
4	18	57	29	395	189	1220	205	128	84	61	27	20
5	18	35	29	370	184	1360	504	125	84	57	26	19
6	16	30	29	356	179	1240	312	122	82	54	26	19
7	15	35	29	343	175	1040	280	119	80	52	25	19
8	15	288	29	333	172	925	245	116	79	51	25	19
9	15	62	27	906	165	832	215	123	75	51	25	19
10	15	50	27	1130	161	768	205	142	72	50	24	18
11	15	42	27	2010	155	710	195	124	71	49	24	18
12	15	37	27	2980	151	649	190	119	71	47	24	18
13	14	35	26	3340	152	603	185	117	70	48	24	18
14	16	33	25	2310	290	567	180	114	70	48	23	18
15	17	31	25	1260	462	534	175	111	68	50	23	18
16	17	32	24	945	1470	501	175	107	66	57	23	18
17	16	115	24	721	3300	471	170	104	64	51	23	17
18	14	62	24	606	4100	450	170	103	63	47	23	17
19	19	49	26	513	6000	430	167	101	64	46	23	17
20	50	43	30	443	4000	410	168	99	64	44	22	17
21	26	40	39	396	5800	390	173	99	63	41	22	17
22	21	38	34	358	3200	370	179	98	62	40	22	17
23	19	40	116	326	2800	350	166	96	61	38	22	17
24	18	36	1870	304	1700	330	158	98	61	37	22	16
25	85	35	790	286	1510	315	154	98	59	36	21	16
26	49	36	525	269	1360	300	150	97	58	34	21	16
27	30	35	429	254	1280	285	146	95	56	33	21	16
28	25	34	380	245	1310	270	167	96	54	32	21	16
29	23	33	352	234	1120	260	152	95	52	31	21	16
30	21	32	777	222	---	250	142	88	53	30	20	15
31	21	---	639	214	---	240	---	87	---	29	20	---
TOTAL	701	1491	6498	23475	41985	19710	5988	3427	2058	1440	726	531
MEAN	22.6	49.7	210	757	1448	636	200	111	68.6	46.5	23.4	17.7
MAX	85	288	1870	3340	6000	1500	504	142	86	73	28	20
MIN	14	21	24	214	151	240	142	87	52	29	20	15
AC-FT	1390	2960	12890	46560	83280	39090	11880	6800	4080	2860	1440	1050

CAL YR 1979 TOTAL 63124 MEAN 173 MAX 1900 MIN 13 AC-FT 125200  
WTR YR 1980 TOTAL 108030 MEAN 295 MAX 6000 MIN 14 AC-FT 214300

## SALINAS RIVER BASIN

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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, 7,270 mg/L, Jan. 13; minimum daily mean, 1 mg/L several days.

SEDIMENT DISCHARGE: Maximum daily, 101,000 tons (91,600 metric tons) Feb. 21; minimum daily, 0.06 ton (0.05 metric ton) Aug. 19.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	---	---	---	---	11.0	---	13.0	---	20.0	23.0	19.0
2	---	14.0	9.0	---	10.0	---	10.5	---	18.0	19.0	---	---
3	---	14.0	---	---	---	10.5	---	---	---	19.0	---	20.0
4	20.0	14.0	10.0	---	---	11.0	10.0	14.0	---	---	23.0	---
5	---	---	---	---	9.5	---	10.0	---	19.0	---	---	20.0
6	---	---	---	---	---	10.5	10.0	17.0	---	19.0	23.0	---
7	---	12.0	9.0	---	10.0	---	---	---	---	---	---	---
8	20.0	12.0	---	---	---	11.0	---	---	19.0	---	---	---
9	---	---	---	---	---	---	---	17.0	---	20.0	23.0	21.0
10	---	11.5	9.5	12.0	11.0	11.0	12.0	16.5	---	---	---	---
11	20.0	---	---	12.0	---	---	---	---	19.0	---	26.0	---
12	---	11.5	---	11.5	11.0	---	---	---	---	20.0	---	19.0
13	19.0	---	9.0	12.0	---	11.0	15.0	15.0	---	---	24.0	---
14	---	---	---	13.5	11.0	---	---	---	20.0	21.0	---	---
15	---	11.0	---	---	11.0	11.5	---	16.0	---	---	---	---
16	---	11.0	8.5	10.0	11.0	---	15.0	---	---	---	23.0	18.0
17	---	11.0	---	---	11.0	---	---	---	21.0	21.0	---	---
18	18.0	---	8.0	9.0	11.0	11.0	---	17.5	---	---	---	---
19	16.0	10.0	8.0	---	---	---	15.0	---	---	---	21.0	---
20	15.5	9.0	---	9.0	11.0	---	---	18.0	19.0	22.0	---	18.0
21	---	---	---	---	---	11.5	14.0	---	---	---	---	---
22	15.0	---	---	9.0	12.0	---	13.0	---	---	22.0	20.0	---
23	---	9.5	8.0	---	12.0	---	---	18.0	20.0	---	---	20.0
24	15.0	---	8.0	10.0	---	11.0	12.0	---	---	22.0	---	---
25	15.0	---	---	---	12.0	---	---	---	---	---	---	---
26	---	9.0	---	10.0	---	---	---	18.0	20.0	---	20.0	18.0
27	---	---	8.0	---	11.5	---	---	---	---	23.0	---	---
28	---	---	---	10.0	---	11.0	11.5	---	---	---	---	---
29	15.0	---	---	---	---	---	---	18.0	20.0	23.0	19.0	---
30	---	9.0	---	10.0	---	---	11.5	---	20.0	---	---	19.0
31	15.0	---	---	---	---	11.0	---	---	---	---	19.0	---
MEAN	17.0	11.0	8.5	10.5	11.0	11.0	12.5	16.5	19.5	21.0	22.0	19.0
WTR YR 1980	MEAN	15.0	MAX	26.0	MIN	8.0						

## SALINAS RIVER BASIN

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	20	2	.11	21	2	.11	31	10	.84
2	19	2	.10	21	2	.11	30	10	.81
3	19	2	.10	54	18	1.6	29	10	.78
4	18	3	.15	57	4	.62	29	10	.78
5	18	3	.15	35	1	.09	29	10	.78
6	16	3	.13	30	1	.08	29	10	.78
7	15	4	.16	35	10	.95	29	10	.78
8	15	5	.20	288	131	146	29	9	.70
9	15	4	.16	62	6	1.0	27	8	.58
10	15	4	.16	50	2	.27	27	7	.51
11	15	8	.32	42	2	.23	27	4	.29
12	15	11	.45	37	1	.10	27	2	.15
13	14	13	.49	35	2	.19	26	1	.07
14	16	13	.56	33	2	.18	25	2	.14
15	17	13	.60	31	2	.17	25	3	.20
16	17	13	.60	32	2	.17	24	6	.39
17	16	13	.56	115	42	13	24	5	.32
18	14	14	.53	62	7	1.2	24	3	.19
19	19	16	.82	49	3	.40	26	4	.28
20	50	20	2.7	43	1	.12	30	13	1.1
21	26	10	.70	40	3	.32	39	30	3.2
22	21	7	.40	38	7	.72	34	30	2.8
23	19	4	.21	40	10	1.1	116	207	357
24	18	2	.10	36	10	.97	1870	2330	12300
25	85	32	12	35	10	.95	790	477	1040
26	49	15	2.0	36	10	.97	525	100	142
27	30	4	.32	35	10	.95	429	24	.28
28	25	3	.20	34	10	.92	380	14	.14
29	23	2	.12	33	10	.89	352	10	9.5
30	21	2	.11	32	10	.86	777	412	1140
31	21	2	.11	---	---	---	639	318	524
TOTAL	701	---	25.32	1491	---	175.24	6498	---	15570.97
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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	523	220	311	207	2	1.1	1030	10	28
2	461	160	199	200	2	1.1	1110	13	40
3	422	120	137	193	2	1.0	1500	27	114
4	395	100	107	189	2	1.0	1220	15	49
5	370	84	84	184	2	1.0	1360	33	128
6	356	71	68	179	2	1.0	1240	19	64
7	343	62	57	175	2	1.0	1040	17	48
8	333	66	59	172	2	.9	925	16	40
9	906	771	2910	165	2	.9	832	14	31
10	1130	660	2080	161	2	.9	768	12	25
11	2010	2210	13000	155	2	.8	710	11	21
12	2980	4540	38100	151	1	.4	649	10	18
13	3340	7270	79500	152	2	.8	603	8	13
14	2310	3720	26500	290	51	33	567	9	14
15	1260	650	2210	462	141	209	534	10	14
16	945	290	740	1470	618	4240	501	8	11
17	721	130	253	3300	1600	18400	471	5	6.4
18	606	55	90	4100	697	8060	450	3	3.6
19	513	39	54	6000	4170	83800	430	2	2.3
20	443	18	22	4000	1000	15000	410	3	3.3
21	396	13	14	5800	5180	101000	390	4	4.2
22	358	10	9.7	3200	125	1080	370	4	4.0
23	326	7	6.2	2800	54	408	350	5	4.7
24	304	3	2.5	1700	43	197	330	5	4.5
25	286	4	3.1	1510	18	73	315	5	4.3
26	269	5	3.6	1360	15	55	300	4	3.2
27	254	4	2.7	1280	15	52	285	4	3.1
28	245	3	2.0	1310	23	81	270	3	2.2
29	234	2	1.3	1120	12	36	260	3	2.1
30	222	2	1.2	---	---	---	250	2	1.4
31	214	2	1.2	---	---	---	240	2	1.3
TOTAL	23475	---	166528.5	41985	---	232735.9	19710	---	708.6

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	230	2	1.2	138	2	.75	86	2	.46
2	220	2	1.2	136	2	.73	84	2	.45
3	210	2	1.1	132	2	.71	82	2	.44
4	205	2	1.1	128	2	.69	84	2	.45
5	504	485	806	125	2	.68	84	3	.68
6	312	160	135	122	2	.66	82	2	.44
7	280	20	15	119	2	.64	80	2	.43
8	245	6	4.0	116	2	.63	79	2	.43
9	215	5	2.9	123	2	.66	75	2	.41
10	205	5	2.8	142	3	1.2	72	3	.58
11	195	4	2.1	124	2	.67	71	4	.77
12	190	4	2.1	119	2	.64	71	5	.96
13	185	3	1.5	117	2	.63	70	7	1.3
14	180	3	1.5	114	2	.62	70	9	1.7
15	175	2	.95	111	3	.90	68	7	1.3
16	175	2	.95	107	3	.87	66	5	.89
17	170	1	.46	104	2	.56	64	3	.52
18	170	2	.92	103	2	.56	63	3	.51
19	167	2	.90	101	2	.55	64	4	.69
20	168	2	.91	99	2	.53	64	5	.86
21	173	2	.93	99	2	.53	63	4	.68
22	179	2	.97	98	2	.53	62	4	.67
23	166	2	.90	96	2	.52	61	4	.66
24	158	2	.85	98	2	.53	61	3	.49
25	154	2	.83	98	2	.53	59	2	.32
26	150	2	.81	97	2	.52	58	2	.31
27	146	2	.79	95	2	.51	56	2	.30
28	167	3	1.4	96	2	.52	54	2	.29
29	152	2	.82	95	2	.51	52	2	.28
30	142	2	.77	88	2	.48	53	2	.29
31	---	---	---	87	2	.47	---	---	---
TOTAL	5988	---	991.66	3427	---	19.53	2058	---	18.56
JULY			AUGUST			SEPTEMBER			
1	54	2	.29	28	13	.98	20	2	.11
2	73	2	.39	28	12	.91	20	2	.11
3	69	4	.75	27	10	.73	20	2	.11
4	61	3	.49	27	9	.66	20	2	.11
5	57	2	.31	26	6	.42	19	2	.10
6	54	1	.15	26	4	.28	19	2	.10
7	52	2	.28	25	4	.27	19	2	.10
8	51	2	.28	25	4	.27	19	2	.10
9	51	4	.55	25	5	.34	19	4	.21
10	50	2	.27	24	4	.26	18	2	.10
11	49	2	.26	24	3	.19	18	2	.10
12	47	1	.13	24	3	.19	18	2	.10
13	48	2	.26	24	5	.32	18	2	.10
14	48	1	.13	23	4	.25	18	2	.10
15	50	2	.27	23	3	.19	18	2	.10
16	57	2	.31	23	2	.12	18	3	.15
17	51	2	.28	23	2	.12	17	2	.09
18	47	2	.25	23	2	.12	17	2	.09
19	46	2	.25	23	1	.06	17	2	.09
20	44	2	.24	22	2	.12	17	2	.09
21	41	2	.22	22	2	.12	17	2	.09
22	40	3	.32	22	2	.12	17	2	.09
23	38	2	.21	22	2	.12	17	2	.09
24	37	1	.10	22	2	.12	16	2	.09
25	36	2	.19	21	2	.11	16	2	.09
26	34	2	.18	21	2	.11	16	2	.09
27	33	2	.18	21	2	.11	16	2	.09
28	32	3	.26	21	2	.11	16	2	.09
29	31	5	.42	21	2	.11	16	2	.09
30	30	6	.49	20	2	.11	15	2	.08
31	29	8	.63	20	2	.11	---	---	---
TOTAL	1440	---	9.34	726	---	8.05	531	---	3.05
YEAR	108030		416794.72						

## SALINAS RIVER BASIN

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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
FEB							
16...	1000	11.0	1330	222	1010	23	34
18...	1800	11.0	3390	361	3300	--	--
APR							
05...	0900	10.0	700	817	1540	23	33

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
FEB							
16...	44	58	72	82	92	98	100
18...	--	--	--	38	59	90	100
APR							
05...	45	60	75	86	93	98	100



## SALINAS RIVER BASIN

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11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	230	2	1.2	138	2	.75	86	2	.46
2	220	2	1.2	136	2	.73	84	2	.45
3	210	2	1.1	132	2	.71	82	2	.44
4	205	2	1.1	128	2	.69	84	2	.45
5	504	485	806	125	2	.68	84	3	.68
6	312	160	135	122	2	.66	82	2	.44
7	280	20	15	119	2	.64	80	2	.43
8	245	6	4.0	116	2	.63	79	2	.43
9	215	5	2.9	123	2	.66	75	2	.41
10	205	5	2.8	142	3	1.2	72	3	.58
11	195	4	2.1	124	2	.67	71	4	.77
12	190	4	2.1	119	2	.64	71	5	.96
13	185	3	1.5	117	2	.63	70	7	1.3
14	180	3	1.5	114	2	.62	70	9	1.7
15	175	2	.95	111	3	.90	68	7	1.3
16	175	2	.95	107	3	.87	66	5	.89
17	170	1	.46	104	2	.56	64	3	.52
18	170	2	.92	103	2	.56	63	3	.51
19	167	2	.90	101	2	.55	64	4	.69
20	168	2	.91	99	2	.53	64	5	.86
21	173	2	.93	99	2	.53	63	4	.68
22	179	2	.97	98	2	.53	62	4	.67
23	166	2	.90	96	2	.52	61	4	.66
24	158	2	.85	98	2	.53	61	3	.49
25	154	2	.83	98	2	.53	59	2	.32
26	150	2	.81	97	2	.52	58	2	.31
27	146	2	.79	95	2	.51	56	2	.30
28	167	3	1.4	96	2	.52	54	2	.29
29	152	2	.82	95	2	.51	52	2	.28
30	142	2	.77	88	2	.48	53	2	.29
31	---	---	---	87	2	.47	---	---	---
TOTAL	5988	---	991.66	3427	---	19.53	2058	---	18.56
JULY			AUGUST			SEPTEMBER			
1	54	2	.29	28	13	.98	20	2	.11
2	73	2	.39	28	12	.91	20	2	.11
3	69	4	.75	27	10	.73	20	2	.11
4	61	3	.49	27	9	.66	20	2	.11
5	57	2	.31	26	6	.42	19	2	.10
6	54	1	.15	26	4	.28	19	2	.10
7	52	2	.28	25	4	.27	19	2	.10
8	51	2	.28	25	4	.27	19	2	.10
9	51	4	.55	25	5	.34	19	4	.21
10	50	2	.27	24	4	.26	18	2	.10
11	49	2	.26	24	3	.19	18	2	.10
12	47	1	.13	24	3	.19	18	2	.10
13	48	2	.26	24	5	.32	18	2	.10
14	48	1	.13	23	4	.25	18	2	.10
15	50	2	.27	23	3	.19	18	2	.10
16	57	2	.31	23	2	.12	18	3	.15
17	51	2	.28	23	2	.12	17	2	.09
18	47	2	.25	23	2	.12	17	2	.09
19	46	2	.25	23	1	.06	17	2	.09
20	44	2	.24	22	2	.12	17	2	.09
21	41	2	.22	22	2	.12	17	2	.09
22	40	3	.32	22	2	.12	17	2	.09
23	38	2	.21	22	2	.12	17	2	.09
24	37	1	.10	22	2	.12	16	2	.09
25	36	2	.19	21	2	.11	16	2	.09
26	34	2	.18	21	2	.11	16	2	.09
27	33	2	.18	21	2	.11	16	2	.09
28	32	3	.26	21	2	.11	16	2	.09
29	31	5	.42	21	2	.11	16	2	.09
30	30	6	.49	20	2	.11	15	2	.08
31	29	8	.63	20	2	.11	---	---	---
TOTAL	1440	---	9.34	726	---	8.05	531	---	3.05
YEAR	108030		416794.72						

## SALINAS RIVER BASIN

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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
FEB							
16...	1000	11.0	1330	222	1010	23	34
18...	1800	11.0	3390	361	3300	--	--
APR							
05...	0900	10.0	700	817	1540	23	33

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. 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
FEB							
16...	44	58	72	82	92	98	100
18...	--	--	--	38	59	90	100
APR							
05...	45	60	75	86	93	98	100

## SALINAS RIVER BASIN

55

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 mi<sup>2</sup> (632 km<sup>2</sup>).

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.--79 years, 165 ft<sup>3</sup>/s (4.673 m<sup>3</sup>/s), 119,500 acre-ft/yr (147 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft<sup>3</sup>/s (801 m<sup>3</sup>/s) Apr. 3, 1958, gage height, 16.40 ft (4.999 m), present datum, from rating curve extended above 12,000 ft<sup>3</sup>/s (340 m<sup>3</sup>/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.--Peak discharges above base of 2,500 ft<sup>3</sup>/s (71 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 25	0115	5820 165	7.94 2.420	Feb. 21	0415	13200 374	11.19 3.411
Jan. 9	2215	3920 111	6.90 2.103	Mar. 5	0745	3540 100	6.69 2.039
Jan. 14	0200	9850 279	9.85 3.002	Apr. 4	1215	2620 74.2	6.14 1.871
Feb. 19	0845	*13800 391	11.44 3.487				

Minimum daily discharge, 16 ft<sup>3</sup>/s (0.453 m<sup>3</sup>/s) Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	27	53	557	329	973	335	200	111	68	38	30
2	18	26	51	452	317	981	298	200	108	82	37	29
3	18	33	46	379	301	1440	291	200	105	91	37	30
4	19	97	54	337	290	1130	287	200	105	78	39	30
5	19	52	52	326	276	1620	855	188	104	71	40	29
6	18	39	53	285	262	1600	476	175	102	68	41	28
7	17	36	51	268	252	1280	387	172	100	66	39	28
8	18	407	50	234	243	1100	340	167	98	64	37	31
9	20	151	48	971	234	937	317	167	94	63	35	34
10	20	89	50	1170	227	856	304	201	91	64	35	35
11	20	66	46	3020	221	813	291	180	89	62	40	32
12	16	55	44	4270	215	776	280	170	89	59	39	31
13	17	49	42	5000	213	720	272	166	89	59	38	30
14	17	44	44	5430	436	669	264	162	89	58	38	29
15	18	42	43	2270	737	608	258	158	86	58	40	30
16	19	40	36	1360	2830	565	252	153	84	56	40	31
17	19	154	33	1290	5350	558	246	148	81	53	38	32
18	18	153	33	1180	6270	553	241	143	80	53	37	31
19	17	110	32	936	8860	536	236	139	79	52	36	32
20	61	92	37	815	5940	517	233	135	78	52	38	30
21	37	80	41	756	8810	498	241	134	74	50	38	30
22	26	72	44	663	4690	479	253	131	73	50	36	29
23	26	73	41	587	3200	461	235	129	73	47	36	29
24	25	66	1480	530	2320	443	227	129	73	46	35	28
25	67	62	1560	492	1730	427	219	129	73	45	35	27
26	148	61	588	455	1450	412	213	127	72	43	34	26
27	56	56	404	428	1230	398	208	121	71	42	33	26
28	38	54	332	409	1380	383	221	120	70	41	32	27
29	32	56	291	393	1080	370	224	118	68	40	32	26
30	29	54	498	364	---	356	203	116	66	39	31	26
31	27	---	787	345	---	344	---	113	---	39	29	---
TOTAL	917	2396	6964	35972	59693	22803	8707	4791	2575	1759	1133	886
MEAN	29.6	79.9	225	1160	2058	736	290	155	85.8	56.7	36.5	29.5
MAX	148	407	1560	5430	8860	1620	855	201	111	91	41	35
MIN	16	26	32	234	213	344	203	113	66	39	29	26
AC-FT	1820	4750	13810	71350	118400	45230	17270	9500	5110	3490	2250	1760
CAL YR 1979 TOTAL	64513			MEAN 177	MAX 1560	MIN 13	AC-FT 128000					
WTR YR 1980 TOTAL	148596			MEAN 406	MAX 8860	MIN 16	AC-FT 294700					

## 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 mi<sup>2</sup> (10,469 km<sup>2</sup>).

## 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, 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 ft<sup>3</sup>/s (1,050 m<sup>3</sup>/s) Feb. 11, 1978; no flow many days in 1977 and several days in 1978-80.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,100 ft<sup>3</sup>/s (824 m<sup>3</sup>/s) Feb. 19, gage height, 12.24 ft (3.731 m); no flow June 15-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	16	38	453	1190	6100	487	180	11	24	47	138
2	33	15	38	305	905	6260	463	155	10	37	59	157
3	27	31	40	218	757	8760	447	139	8.6	41	69	163
4	24	52	40	159	667	9630	424	126	7.5	44	86	160
5	31	57	41	116	599	6480	550	118	5.9	54	94	157
6	25	67	42	99	538	7940	1300	109	4.8	62	101	152
7	23	72	43	63	491	8380	749	97	3.6	70	98	152
8	32	79	42	52	436	6430	626	91	1.8	75	93	164
9	37	84	40	51	417	5590	568	95	3.4	71	89	172
10	39	83	37	877	372	5490	521	92	4.4	68	86	171
11	39	76	34	1930	346	5100	482	95	4.3	63	83	141
12	42	65	30	4160	325	4700	442	86	3.3	56	79	100
13	48	56	27	5100	303	4400	413	81	1.1	46	78	81
14	55	49	27	9660	301	3900	397	73	.37	67	79	71
15	61	49	26	8040	497	3500	380	67	0	71	86	70
16	64	46	25	6850	1220	3050	355	61	0	63	83	67
17	68	46	25	5200	6880	2800	317	55	0	54	80	61
18	68	42	23	5100	9430	2700	291	50	0	47	89	54
19	64	38	20	4520	22300	2550	268	45	0	43	99	49
20	66	38	18	4060	23700	2450	249	42	0	44	97	46
21	65	39	25	3920	20400	2300	243	35	0	48	97	43
22	59	38	14	3690	16800	2050	240	29	0	50	97	49
23	43	38	12	3470	9580	1670	236	24	0	46	104	49
24	34	38	60	3290	7100	1250	214	22	5.9	39	108	46
25	33	38	1420	3110	6460	1070	192	20	17	33	117	39
26	31	40	624	2890	5970	891	178	20	13	28	129	32
27	19	41	337	2090	5840	717	171	22	15	25	131	34
28	16	39	223	1750	6270	651	178	19	15	29	134	40
29	16	38	154	2000	6270	582	214	15	12	30	131	50
30	16	37	125	1700	---	536	210	14	17	23	129	48
31	16	---	522	1490	---	522	---	13	---	24	129	---
TOTAL	1224	1447	4172	86413	156364	118449	11805	2090	164.97	1475	2981	2756
MEAN	39.5	48.2	135	2788	5392	3821	394	67.4	5.50	47.6	96.2	91.9
MAX	68	84	1420	9660	23700	9630	1300	180	17	75	134	172
MIN	16	15	12	51	301	522	171	13	0	23	47	32
AC-FT	2430	2870	8280	171400	310100	234900	23420	4150	327	2930	5910	5470
CAL YR 1979 TOTAL	85674.90			235		3010	8.9	169900				
WTR YR 1980 TOTAL	389340.97			1064		23700	0	772300				

## 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.

## 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, 1,100 micromhos May 21-24; minimum recorded, 245 micromhos Jan. 30.  
 WATER TEMPERATURES: Maximum recorded, 28.5°C July 29, 31; minimum recorded, 4.5°C Dec. 11-12.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 15...	1300	52	394	7.5	22.0	63	9.5	--	100	77
NOV 19...	1100	38	552	8.3	10.5	1.7	11.2	102	K19	K20
DEC 17...	1115	24	693	8.3	7.0	10	12.7	103	K4	K13
JAN 28...	1130	1780	327	7.5	12.0	38	10.3	95	K43	230
MAR 10...	1300	5560	372	7.3	13.5	100	9.7	--	K300	560
24...	1200	1490	580	8.2	14.5	30	9.9	96	K41	50
APR 15...	1100	317	775	7.9	15.5	7.4	10.0	102	K8	K11
MAY 20...	1300	44	1120	8.0	19.0	4.4	9.0	98	K32	K21
JUN 26...	1000	13	759	8.6	21.0	22	10.4	116	120	670
JUL 21...	1200	49	573	8.4	22.0	6.6	9.1	106	K17	88
AUG 19...	1300	101	403	8.2	22.0	27	9.3	106	--	K45
SEP 08...	1300	162	389	8.3	19.0	22	9.2	98	68	K29

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- LITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT 15...	170	46	40	16	19	20	.6	2.0	120	60
NOV 19...	210	64	51	21	33	36	1.0	2.1	150	100
DEC 17...	260	78	62	25	47	39	1.3	2.7	180	120
JAN 28...	150	37	34	15	16	19	.6	1.8	110	49
MAR 10...	150	35	35	14	19	22	.7	2.5	110	65
24...	240	93	61	22	35	24	1.0	3.2	150	120
APR 15...	290	120	73	27	47	26	1.2	3.4	170	160
MAY 20...	410	200	100	40	77	29	1.6	4.8	210	240
JUN 26...	270	110	61	29	48	27	1.3	3.5	160	150
JUL 21...	220	59	53	21	33	24	1.0	2.9	160	110
AUG 19...	160	42	40	15	20	21	.7	2.0	120	67
SEP 08...	170	27	43	15	18	19	.6	2.1	125	58

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 1979 TO SEPTEMBER 1980

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)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT 15...	18	.2	18	246	246	.33	34.5	.20	.20
NOV 19...	28	.2	17	347	347	.47	35.6	.77	.77
DEC 17...	37	.2	19	461	427	.63	29.9	1.4	1.4
JAN 28...	10	.2	30	--	224	.39	1080	--	.33
MAR 10...	14	.2	19	236	237	.32	3540	.36	.36
24...	25	.2	22	380	383	.52	1530	.89	.92
APR 15...	37	.3	24	484	480	.66	414	1.4	1.3
MAY 20...	61	.2	24	735	693	1.00	87.3	4.4	4.5
JUN 26...	42	.3	20	471	453	.64	16.5	--	.62
JUL 21...	27	.4	19	365	364	.50	48.3	.31	.30
AUG 19...	16	.2	16	278	249	.38	75.8	.00	.03
SEP 08...	14	.2	16	262	241	.36	115	.05	.00

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 15...	--	.10	--	.39	--	.49	--	.14	.05
NOV 19...	.04	.04	.42	.39	.46	.43	1.2	.09	.06
DEC 17...	.01	.01	.84	.47	.85	.48	2.3	.23	.05
JAN 28...	--	.02	--	.97	--	.99	--	.20	.07
MAR 10...	.00	.00	1.1	.50	1.1	.50	1.5	.83	.09
24...	.00	.02	.68	.56	.68	.58	1.6	.31	.12
APR 15...	.03	.04	.54	.39	.57	.43	2.0	.11	.08
MAY 20...	.01	.01	.68	.66	.69	.67	5.1	.07	.05
JUN 26...	--	.01	--	.71	--	.72	--	1.40	.01
JUL 21...	.00	.01	.92	.89	.92	.90	1.2	.07	.04
AUG 19...	.00	.03	.79	.34	.79	.37	.79	.20	.09
SEP 08...	.00	.02	.71	.34	.71	.36	.76	.14	.05

## SALINAS RIVER BASIN

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11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
OCT 15...	1300	2	3	100	60	0	<1	50	10	1
DEC 17...	1115	--	--	--	--	--	--	--	--	--
MAR 10...	1300	3	5	200	40	1	<1	60	20	10
24...	1200	--	--	--	--	--	--	--	--	--
MAY 20...	1300	9	3	100	100	0	<1	20	20	1
JUN 26...	1000	--	--	--	--	--	--	--	--	--
AUG 19...	1300	6	3	0	50	0	<1	20	10	0
SEP 08...	1300	--	--	--	--	--	--	--	--	--

DATE	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)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
OCT 15...	<3	14	0	4400	10	5	0	90	3	--
DEC 17...	--	--	--	--	--	--	--	--	--	--
MAR 10...	<3	23	2	22000	30	7	0	90	2	.1
24...	--	--	--	--	--	--	--	--	--	--
MAY 20...	<3	5	2	400	<10	2	0	10	3	.1
JUN 26...	--	--	--	--	--	--	--	--	--	--
AUG 19...	<3	6	1	2900	10	2	2	70	3	.1
SEP 08...	--	--	--	--	--	--	--	--	--	--

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	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 15...	.0	19	0	1	1	0	0	30	6
DEC 17...	--	--	--	--	--	0	--	--	--
MAR 10...	.0	84	1	2	1	0	0	40	<3
24...	--	--	--	--	--	1	--	--	--
MAY 20...	.0	6	0	3	3	0	0	20	7
JUN 26...	--	--	--	--	--	0	--	--	--
AUG 19...	.0	13	5	1	1	0	0	20	3
SEP 08...	--	--	--	--	--	0	--	--	--

## SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)	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)	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 15...	1300	--	6.8	.6	--	--	--	--	--	--	--	--
NOV 19...	1100	12	--	--	ND	ND	ND	ND	ND	ND	ND	ND
DEC 17...	1115	6.9	--	--	--	--	--	--	--	--	--	--
MAR 10...	1300	--	--	2.5	ND	--	ND	--	ND	--	ND	--
MAR 24...	1200	3.7	--	--	--	--	--	--	--	--	--	--
APR 15...	1100	6.1	--	--	--	--	--	--	--	--	--	--
MAY 20...	1300	--	4.7	.1	--	--	--	--	--	--	--	--
JUN 26...	1000	8.5	--	--	--	--	--	--	--	--	--	--
JUL 21...	1200	6.1	--	--	--	--	--	--	--	--	--	--
AUG 19...	1300	--	4.5	1.2	--	--	--	--	--	--	--	--

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- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 15...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC 17...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 10...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAR 24...	--	--	--	--	--	--	--	--	--	--	--	--
APR 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 26...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	--	--	--	--	--	--	--	--	--	--	--	--

ND Material specifically analyzed for but not detected.



11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR 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)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL THION, TOTAL (UG/L)	METHYL THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 15...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC 17...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 10...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 26...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	TOTAL TRI- THION (UG/L)	TOTAL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 15...	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC 17...	--	--	--	--	--	--	--	--	--	--	--
MAR 10...	ND	--	ND	--	ND	--	ND	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
APR 15...	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--
JUN 26...	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	--	--	--	--	--	--	--	--	--	--	--

ND Material specifically analyzed for but not detected.

## SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE TIME	NOV 19,79 1100	MAR 24,80 1200	MAY 20,80 1300	JUN 26,80 1000
TOTAL CELLS/ML	1200	330	1200	3400
DIVERSITY: DIVISION	1.5	0.9	1.2	1.3
..CLASS	1.5	0.9	1.2	1.3
...ORDER	1.7	1.3	2.0	2.1
...FAMILY	2.0	1.3	2.3	2.7
....GENUS	2.0	1.3	2.4	2.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	25	1
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
...MIRACTINIACEAE								
....GOLENKINIA	--	-	--	-	--	-	--	-
...MIRACTINIUM	--	-	--	-	--	-	300	9
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	39	3	130	4
...CHODATELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	52	4	--	-	--	-	--	-
...SELENASTRUM	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	52	4	--	-
...SCENEDESMUS	26	2	--	-	52	4	500	15
....TETRASTRUM	--	-	--	-	--	-	100	3
...TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	120#	35	140	12	500	15
...VOLVOCACEAE								
...PANDORINA	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	*	26	8	550#	47	480	14
...MELOSIRA	100	9	--	-	--	-	50	1
..PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	13	1	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	160	13	--	-	--	-	--	-
...SYNEDRA	--	-	--	-	13	1	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	26	2	--	-	13	1	75	2
...NITZSCHACEAE								
....NITZSCHIA	26	2	190#	58	250#	21	980#	29
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOMONADACEAE								
...CRYPTOMONAS	39	3	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	26	2	230	7
...HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	730#	61	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....EUGLENA	26	2	--	-	52	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 1979 TO SEPTEMBER 1980

PHYTOPLANKTON						
DATE TIME	JUL 21,80 1200	AUG 19,80 1200	SEP 8,80 1300			
TOTAL CELLS/ML	16000	14000	8900			
DIVERSITY: DIVISION	0.9	1.0	0.9			
..CLASS	0.9	1.0	0.9			
...ORDER	1.1	1.5	1.7			
...FAMILY	2.1	1.7	2.1			
....GENUS	2.3	1.8	2.2			
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...CHARACIACEAE						
...SCHROEDERIA	--	-	--	-	--	-
...HYDRODICTYACEAE						
...PEDIASTRUM	1200	8	--	-	480	5
...MICRACTINIACEAE						
...GOLENKINIA	270	2	--	-	--	-
...MICRACTINIUM	--	-	--	-	--	-
...OOCYSTACEAE						
...ANKISTRODESMUS	670	4	*	0	*	0
...CHODATELLA	1200	8	*	0	--	-
...OOCYSTIS	--	-	--	-	*	0
...SELENASTRUM	130	1	--	-	--	-
...TETRAEDRON	--	-	--	-	*	0
...SCENEDESMACEAE						
...ACTINASTRUM	--	-	--	-	--	-
...SCENEDESMUS	9100#	57	3200#	23	1800#	21
...TETRASTRUM	--	-	--	-	--	-
..TETRASPORALES						
...PALMELLACEAE						
...SPHAEROCYSTIS	--	-	600	4	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
...CHLAMYDOMONAS	400	3	--	-	60	1
...VOLVOCAEAE						
....PANDORINA	--	-	--	-	320	4
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCACEAE						
...CYCLOTELLA	800	5	220	2	*	0
...MELOSIRA	--	-	8200#	59	4500#	51
...PENNALES						
...ACHNANTHACEAE						
...COCCONEIS	--	-	--	-	--	-
...DIATOMACEAE						
...DIATOMA	--	-	*	0	*	0
...FRAGILARIACEAE						
...FRAGILARIA	--	-	780	6	1100	12
...SYNEDRA	--	-	--	-	--	-
...GOMPHONEMACEAE						
...GOMPHONEMA	*	0	--	-	--	-
...NAVICULACEAE						
...NAVICULA	--	-	75	1	160	2
...NITZSCHIACEAE						
...NITZSCHIA	400	3	450	3	240	3
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
...CRYPTOMONADACEAE						
...CRYPTOMONAS	*	0	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
...ANACYSTIS	1600	10	190	1	*	0
...HORMOGONALES						
...OSCILLATORIACEAE						
...OSCILLATORIA	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	--	-

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

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

## SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## 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)	SAMPLING METHOD
OCT 15...	1300	35	1.65	1.18	10.2	4.95	46.1	POLYETHYLENE STRIP
NOV 19...	1100	35	.550	.390	3.73	2.67	42.9	POLYETHYLENE STRIP
APR 15...	1100	22	3.23	2.99	2.57	.410	93.4	POLYETHYLENE STRIP
AUG 26...	0930	35	4.33	3.31	2.89	1.25	353	POLYETHYLENE STRIP

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	483	462	473	544	524	532	607	602	604	679	653	664
2	470	452	461	544	531	537	607	602	604	684	673	679
3	492	470	481	549	538	542	607	602	604	689	678	685
4	502	487	497	546	536	542	607	596	602	687	680	685
5	487	441	468	549	535	541	610	602	605	685	678	682
6	453	439	446	546	533	541	613	602	607	683	676	679
7	459	447	453	533	523	528	616	602	609	688	677	682
8	466	454	460	525	515	521	613	602	605	697	683	689
9	484	464	475	522	515	519	607	602	604	709	695	700
10	503	484	492	522	515	517	640	607	620	715	707	711
11	498	486	492	522	515	517	666	640	654	722	709	715
12	500	490	495	524	515	518	672	656	665	716	696	709
13	505	493	498	526	517	521	688	669	678	696	686	694
14	502	478	493	529	521	524	702	678	691	626	488	545
15	478	463	471	533	528	529	713	695	703	488	435	457
16	473	463	468	538	528	534	717	699	706	435	333	396
17	484	468	477	543	535	540	724	702	712	333	307	312
18	499	484	492	551	540	547	718	704	713	320	311	315
19	508	494	500	572	548	561	731	716	722	325	318	321
20	505	452	467	589	565	575	739	725	732	323	316	321
21	452	416	437	594	577	584	748	737	743	316	311	313
22	435	421	430	591	584	588	754	739	747	313	291	305
23	465	427	445	610	591	598	761	744	750	297	289	292
24	509	465	484	599	594	596	752	642	677	309	296	304
25	509	497	503	602	596	598	642	636	639	318	308	312
26	538	509	522	602	596	599	638	631	633	318	316	317
27	553	535	544	604	591	598	631	620	625	321	315	317
28	559	548	551	610	596	604	621	614	617	327	275	305
29	556	530	543	607	599	605	625	612	619	274	246	261
30	544	527	533	604	596	602	636	623	628	258	245	250
31	536	524	529	---	---	---	653	634	642	270	258	265
MONTH	559	416	486	610	515	555	761	596	657	722	245	479



OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.0	17.0	20.0	9.5	16.5	10.0	16.0	13.5	13.5	11.5		
2	27.0	18.0	19.0	11.0	16.0	11.0	14.5	11.0	15.0	12.5		
3	24.0	16.0	19.0	15.0	16.5	9.5	14.0	10.0	15.5	12.5		
4	24.5	17.0	19.0	14.5	15.5	8.0	13.0	10.0	16.0	13.5		
5	24.5	17.0	18.5	11.5	16.5	9.5	12.5	10.5	15.5	13.5		
6	24.5	16.5	18.5	11.5	16.5	9.5	13.0	10.5	16.5	13.0		
7	24.0	15.0	14.5	12.5	17.0	9.0	15.5	10.5	14.5	11.5		
8	21.5	16.0	18.5	12.5	16.0	10.0	14.5	11.5	14.0	10.5		
9	24.0	14.0	18.5	13.5	16.5	13.0	16.5	13.0	14.5	10.5		
10	24.0	14.5	18.5	12.0	16.0	12.0	14.5	11.5	14.5	10.5		
11	24.5	17.5	20.0	14.0	14.0	7.0	13.0	11.5	14.5	10.5		
12	23.0	15.5	19.0	11.5	11.5	4.5	15.0	13.0	14.5	10.0		
13	24.0	17.0	18.5	10.5	12.5	4.5	15.5	14.5	12.5	10.5		
14	22.5	18.0	17.5	10.0	13.5	5.0	15.0	14.0	15.0	11.0		
15	25.5	18.0	19.5	13.0	14.0	5.5	14.5	13.0	14.5	12.5		
16	25.0	18.5	17.0	12.0	14.0	6.0	14.5	13.5	14.5	13.0		
17	24.0	17.5	20.0	14.5	13.5	6.0	14.5	13.0	14.0	13.0		
18	21.5	15.0	18.0	11.5	13.0	5.5	13.0	12.0	12.0	13.0		
19	24.5	17.0	16.0	9.5	13.0	9.0	12.0	10.5	---	---		
20	21.5	16.0	14.5	7.0	11.0	8.0	11.0	9.5	---	---		
21	22.5	13.5	14.0	6.0	14.0	9.5	11.5	10.0	---	---		
22	19.5	13.0	13.5	9.0	13.0	6.5	12.0	10.5	---	---		
23	21.5	12.5	17.5	11.5	9.5	7.0	12.5	11.0	---	---		
24	21.0	13.5	16.5	10.0	11.0	9.5	12.5	11.0	---	---		
25	20.5	16.0	19.5	14.0	11.0	9.0	12.5	11.0	---	---		
26	22.0	12.0	18.5	12.0	10.5	8.5	12.5	11.0	---	---		
27	21.0	12.0	16.0	8.5	10.5	6.5	12.5	12.0	---	---		
28	22.0	13.5	16.0	8.0	9.0	6.0	13.0	12.0	---	---		
29	19.0	11.0	16.0	9.0	11.0	6.5	12.5	11.5	---	---		
30	19.0	8.5	16.0	9.0	12.5	9.0	12.0	10.5	---	---		
31	21.0	13.5	---	---	14.0	11.5	12.5	10.5	---	---		
MONTH	27.0	8.5	20.0	6.0	17.0	4.5	16.5	9.5	---	---		
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	20.5	12.0	21.0	15.5	---	---	22.5	17.0
2			---	---	21.0	9.0	21.5	16.0	26.5	17.5	23.0	16.5
3			---	---	22.0	9.0	24.0	15.5	25.0	16.5	23.5	16.5
4			---	---	19.5	12.0	23.5	13.5	25.0	16.5	23.5	17.0
5			---	---	21.5	9.0	24.0	14.0	26.0			

11152300 SALINAS RIVER NEAR CHULAR, CA--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
OCT								
15...	1415	24.5	65	148	26	--	--	--
NOV								
19...	1100	10.5	38	39	4.0	--	--	--
DEC								
17...	1115	8.0	25	16	1.1	--	--	--
JAN								
15...	1510	14.0	7740	1900	39700	39	49	57
28...	1420	13.0	1770	302	1440	--	--	--
MAR								
10...	1615	13.5	5620	1890	28700	12	15	19
24...	1550	17.0	1220	294	968	--	--	--
MAY								
20...	1400	20.0	43	17	2.0	--	--	--
JUN								
27...	1400	28.5	16	12	.52	--	--	--
SEP								
08...	1430	19.0	163	61	27	--	--	--

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
OCT							
15...	--	91	--	--	--	--	--
NOV							
19...	--	90	--	--	--	--	--
DEC							
17...	--	96	--	--	--	--	--
JAN							
15...	63	66	70	88	99	100	--
28...	--	45	52	85	98	99	100
MAR							
10...	25	35	53	86	99	100	--
24...	--	41	--	--	--	--	--
MAY							
20...	--	61	--	--	--	--	--
JUN							
27...	--	84	--	--	--	--	--
SEP							
08...	--	83	--	--	--	--	--

## SALINAS RIVER BASIN

## 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 mi<sup>2</sup> (10,764 km<sup>2</sup>).

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 km<sup>2</sup>) above station. Low flow represents waste water from Spreckels sugar refinery and Alisal sewage disposal plant.

AVERAGE DISCHARGE.--51 years (water years 1930-80), 423 ft<sup>3</sup>/s (11.98 m<sup>3</sup>/s), 306,500 acre-ft/yr (378 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,100 ft<sup>3</sup>/s (2,350 m<sup>3</sup>/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, 37,400 ft<sup>3</sup>/s (1,060 m<sup>3</sup>/s) Feb. 20, gage height, 17.77 ft (5.416 m); minimum daily, 0.49 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) July 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.0	1.3	456	1580	4820	608	162	2.9	2.1	.67	62
2	1.6	.94	1.3	244	1310	4620	564	136	2.6	2.4	.77	70
3	1.7	1.1	1.2	140	899	4810	519	115	2.3	2.2	.74	86
4	1.7	1.2	1.2	92	759	6720	492	106	2.1	2.4	.78	88
5	1.6	1.1	1.2	63	666	6110	513	97	1.9	2.3	.80	83
6	1.7	1.0	1.3	35	592	7030	1170	92	1.8	2.6	.86	80
7	1.7	1.0	1.3	22	668	8580	799	84	1.6	2.3	.97	77
8	1.7	1.0	1.4	13	620	7310	615	75	1.5	2.3	1.0	77
9	1.6	1.0	1.5	9.6	552	5800	526	68	1.4	2.3	1.4	88
10	1.6	1.1	2.4	164	548	5090	468	71	1.3	2.1	1.8	97
11	1.6	1.1	2.9	1230	517	4530	421	66	1.3	1.9	2.0	97
12	1.6	1.1	2.1	5100	500	4370	378	71	1.3	2.4	2.2	56
13	1.6	1.1	1.7	6720	508	4390	339	66	1.3	2.2	2.3	29
14	1.5	1.0	1.6	11000	514	4380	327	56	1.3	1.9	5.3	17
15	1.4	1.0	1.5	9000	472	3330	346	49	1.3	2.0	9.8	12
16	1.4	.94	1.5	8450	879	2770	304	39	1.3	1.7	14	11
17	1.4	1.4	1.5	6660	5890	2640	258	36	1.2	1.4	14	10
18	1.3	1.2	1.5	5790	16300	2530	236	28	1.2	1.5	19	7.6
19	1.4	1.2	1.6	5100	31500	2410	215	24	1.2	2.1	25	5.6
20	1.4	1.1	1.6	4410	36200	2260	196	21	1.2	1.5	31	4.4
21	1.3	1.1	1.8	3950	32100	2180	190	18	2.2	1.1	30	3.4
22	1.2	1.2	1.7	3600	26800	2120	187	16	2.3	1.2	32	2.9
23	1.2	1.1	1.7	3250	14800	1720	192	13	2.3	1.3	34	4.3
24	1.1	1.2	2.5	3030	9940	1390	173	9.5	2.3	.81	37	4.6
25	1.3	1.3	615	2870	8160	1210	173	7.4	2.2	.49	40	3.5
26	1.2	1.4	853	2730	6960	1100	169	5.8	2.3	.51	51	2.5
27	1.1	1.2	338	2140	6520	981	156	4.9	2.6	.51	59	1.6
28	1.1	1.2	142	1790	6200	883	176	4.3	2.5	.57	62	1.3
29	1.1	1.3	68	1860	5690	796	191	3.8	2.4	.56	63	1.2
30	1.0	1.2	39	2010	---	716	199	3.6	2.3	.60	59	1.2
31	1.0	---	70	1680	---	664	---	3.2	---	.62	59	---
TOTAL	43.8	33.78	2164.3	93608.6	218644	108260	11100	1551.5	55.4	49.87	660.39	1084.1
MEAN	1.41	1.13	69.8	3020	7539	3492	370	50.0	1.85	1.61	21.3	36.1
MAX	1.7	1.4	853	11000	36200	8580	1170	162	2.9	2.6	63	97
MIN	1.0	.94	1.2	9.6	472	664	156	3.2	1.2	.49	.67	1.2
AC-FT	87	67	4290	185700	433700	214700	22020	3080	110	99	1310	2150
CAL YR 1979	TOTAL	65488.61	MEAN	179	MAX	3190	MIN	.64	AC-FT	129900		
WTR YR 1980	TOTAL	437255.74	MEAN	1195	MAX	36200	MIN	.49	AC-FT	867300		



## SALINAS RIVER BASIN

69

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 mi<sup>2</sup> (82.6 km<sup>2</sup>).

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 except for periods of no gage-height record, Dec. 16 to Jan. 10, and Jan. 20 to Feb. 26, which are poor. No regulation or diversion above station except for minor stock ponds.

AVERAGE DISCHARGE.--19 years, 1.55 ft<sup>3</sup>/s (0.044 m<sup>3</sup>/s), 1,120 acre-ft/yr (1.38 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 626 ft<sup>3</sup>/s (17.7 m<sup>3</sup>/s) Jan. 26, 1969, gage height, 5.99 ft (1.826 m), from rating curve extended above 93 ft<sup>3</sup>/s (2.63 m<sup>3</sup>/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 ft<sup>3</sup>/s (0.6 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 14	0345	29	0.82	3.51	1.070	Mar. 2	2215	67	1.90	3.96	1.207
Jan. 17	1930	21	0.59	3.37	1.027	Mar. 6	0700	38	1.08	3.63	1.106
Feb. 19	unknown	*182	5.15	4.68	1.426						

Minimum daily discharge, 0.03 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Oct. 3, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.10	.15	.39	1.2	3.8	.26	.22	.12	.17	.08	.07
2	45	.11	.15	.35	1.1	18	.25	.21	.12	.17	.08	.07
3	.03	.25	.15	.32	1.0	31	.24	.21	.11	.25	.07	.07
4	.04	.22	.16	.30	.95	16	.24	.22	.11	.23	.10	.08
5	.04	.12	.16	.29	.91	22	.34	.22	.11	.21	.12	.07
6	.04	.12	.16	.28	.88	26	.35	.22	.11	.21	.12	.08
7	.03	.14	.16	.27	.84	17	.30	.21	.10	.22	.16	.08
8	.05	.13	.17	.27	.83	11	.26	.23	.09	.19	.16	.08
9	.04	.13	.18	.35	.82	9.8	.26	.24	.10	.19	.25	.11
10	.04	.13	.17	1.0	.80	8.6	.28	.37	.10	.20	.37	.09
11	.04	.13	.16	2.7	.79	8.8	.29	.25	.10	.16	.09	.10
12	.04	.13	.16	1.9	.78	7.1	.23	.24	.11	.17	.10	.09
13	.05	.13	.15	10	.83	5.4	.25	.23	.11	.18	.11	.10
14	.05	.13	.17	16	1.5	4.3	.23	.23	.10	.19	.12	.10
15	.05	.12	.16	8.5	4.0	3.7	.25	.21	.11	.17	.12	.08
16	.05	.17	.16	5.3	18	3.1	.21	.19	.12	.20	.10	.07
17	.05	.25	.16	7.9	33	2.3	.20	.18	.14	.23	.10	.07
18	.05	.21	.17	7.7	45	2.2	.19	.19	.14	.40	.11	.06
19	.18	.18	.20	4.2	76	1.6	.19	.17	.16	.44	.09	.07
20	.22	.14	.25	3.4	37	1.4	.24	.15	.15	.16	.08	.07
21	.09	.13	.30	2.9	47	2.3	.90	.14	.16	.22	.08	.06
22	.08	.13	.20	2.6	25	2.6	.67	.13	.12	.26	.09	.05
23	.07	.13	.16	2.3	18	1.5	1.1	.13	.10	.20	.08	.04
24	.07	.13	1.9	2.2	13	.97	.37	.12	.09	.16	.08	.04
25	.18	.13	1.5	2.0	10	2.7	.38	.12	.09	.18	.11	.06
26	.09	.13	.90	1.8	8.4	2.5	.21	.14	.09	.14	.06	.06
27	.09	.13	.50	1.7	7.6	1.3	.21	.13	.09	.12	.06	.06
28	.09	.13	1.1	1.6	7.6	.76	.42	.12	.10	.12	.06	.06
29	.09	.14	.70	1.5	4.2	.49	.26	.11	.11	.13	.05	.05
30	.09	.15	.60	1.3	---	.39	.23	.12	.14	.12	.05	.05
31	.12	---	.45	1.2	---	.29	---	.11	---	.14	.06	---
TOTAL	47.19	4.37	11.66	92.52	367.03	218.90	9.81	5.76	3.40	6.50	3.30	2.13
MEAN	1.52	.15	.38	2.98	12.7	7.06	.33	.19	.11	.21	.11	.071
MAX	45	.25	1.9	16	76	31	1.1	.37	.16	.54	.37	.11
MIN	.03	.10	.15	.27	.78	.29	.19	.11	.09	.12	.05	.04
AC-FT	94	8.7	23	184	728	434	19	11	6.7	13	6.5	4.2
CAL YR 1979	TOTAL 452.32	MEAN 1.24	MAX 45	MIN .02	AC-FT 897							
WTR YR 1980	TOTAL 772.57	MEAN 2.11	MAX 76	MIN .03	AC-FT 1530							

## TEMBLADERO SLOUGH BASIN

11152600 GABILAN CREEK NEAR SALINAS, CA

LOCATION.--Lat 36°45'21", long 121°36'34", in La Natividad Grant, Monterey County, Hydrologic Unit 18060011, on left bank at downstream side of county road bridge, 0.3 mi (0.5 km) downstream from small left-bank tributary, and 6.2 mi (10.0 km) northeast of Salinas.

DRAINAGE AREA.--36.7 mi<sup>2</sup> (95.1 km<sup>2</sup>).

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.--10 years, 3.43 ft<sup>3</sup>/s (0.097 m<sup>3</sup>/s), 2,490 acre-ft/yr (3.07 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 800 ft<sup>3</sup>/s (22.7 m<sup>3</sup>/s) Apr. 1, 1974, gage height, 11.13 ft (3.392 m), from rating curve extended above 260 ft<sup>3</sup>/s (7.36 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow for most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 60 ft<sup>3</sup>/s (1.7 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 13	1230	*195	5.52	3.51	1.070	Feb. 28	0430	80	2.27	2.59	0.789
Jan. 17	1400	82	2.32	2.61	0.796	Mar. 3	0630	84	2.38	2.63	0.802
Feb. 20	0230	101	2.86	2.77	0.844	Mar. 5	0615	80	2.27	2.59	0.789

Minimum daily discharge, no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	0	31	2.9					
2				0	0	42	3.1					
3				0	0	68	1.0					
4				0	0	53	1.4					
5				0	0	64	4.3					
6				0	0	67	2.3					
7				0	0	54	1.7					
8				0	0	43	.86					
9				0	0	33	.41					
10				0	0	27	.25					
11				19	0	33	.13					
12				70	0	31	.05					
13				105	0	19	.40					
14				100	0	17	.08					
15				73	0	13	.15					
16				63	5.1	14	.03					
17				65	8.7	11	.01					
18				60	10	8.0	.07					
19				40	31	6.0	.02					
20				26	78	3.6	0					
21				11	81	4.1	.62					
22				.81	67	3.8	.32					
23				.08	57	3.4	.39					
24				.02	43	2.4	.23					
25				.02	28	6.7	.02					
26				0	13	3.7	.01					
27				0	20	2.0	0					
28				0	53	1.7	0					
29				0	29	2.2	0					
30				0	---	2.5	0					
31		---		0	---	2.2	---		---			---
TOTAL	0	0	0	632.93	523.8	672.3	20.75	0	0	0	0	0
MEAN	0	0	0	20.4	18.1	21.7	.69	0	0	0	0	0
MAX	0	0	0	105	81	68	4.3	0	0	0	0	0
MIN	0	0	0	0	0	1.7	0	0	0	0	0	0
AC-FT	0	0	0	1260	1040	1330	41	0	0	0	0	0

CAL YR 1979 TOTAL 277.47 MEAN .76 MAX 56 MIN 0 AC-FT 550  
WTR YR 1980 TOTAL 1849.78 MEAN 5.05 MAX 105 MIN 0 AC-FT 3670

## 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 ft<sup>3</sup>/s (13.4 m<sup>3</sup>/s) Apr. 2, 1974; no flow Dec. 4, 10, 11, 1978.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	12	4.5	16	.82	27	4.3	5.9	5.3	5.4	7.1	4.3
2	3.8	11	1.3	5.0	.63	25	5.1	4.6	3.5	18	7.8	3.5
3	4.8	22	1.4	.93	.46	88	7.4	5.1	2.6	16	6.8	4.7
4	4.9	44	3.2	.47	.35	81	7.8	3.8	6.6	10	5.6	5.7
5	5.2	7.1	6.2	.41	.48	66	13	2.7	5.9	5.9	5.5	5.7
6	6.1	9.0	3.4	.29	.53	72	5.6	4.7	5.3	4.2	6.0	5.6
7	3.4	8.3	6.0	.20	.42	52	2.2	5.8	6.3	3.3	6.3	4.2
8	1.3	16	6.0	.47	.59	30	3.7	6.6	5.1	3.1	6.4	3.2
9	2.5	9.9	1.4	12	.68	20	5.1	7.8	4.3	4.0	5.6	5.4
10	4.1	7.1	.98	17	.29	12	7.2	12	5.5	5.4	4.6	6.4
11	5.6	3.9	3.2	72	.32	6.4	7.4	3.6	5.8	5.8	4.9	5.9
12	5.3	1.3	4.5	133	.63	4.3	6.6	2.9	7.1	5.7	5.1	5.6
13	5.6	5.1	4.3	268	.75	3.0	6.7	3.9	7.6	4.6	6.5	5.0
14	23	7.6	3.9	328	3.8	2.5	7.3	4.7	7.2	3.8	6.5	3.4
15	2.8	6.6	4.2	256	14	2.4	6.9	6.4	6.0	4.5	6.3	2.1
16	2.6	7.4	1.5	178	19	1.7	7.3	7.0	4.0	6.0	6.2	4.2
17	3.2	65	1.6	117	37	1.2	7.7	7.9	5.0	6.2	6.0	6.3
18	3.1	32	2.0	88	22	1.1	8.1	3.8	6.4	7.4	5.1	7.1
19	18	6.0	4.8	52	23	1.4	8.8	6.5	6.9	8.0	5.3	6.7
20	53	5.6	4.4	32	102	2.0	6.9	11	7.6	7.1	6.0	5.8
21	11	5.8	34	14	106	2.4	9.3	11	7.4	5.8	6.3	3.5
22	1.2	5.0	5.4	6.4	95	1.6	8.7	10	5.4	6.3	6.5	2.2
23	1.9	.96	2.1	3.2	74	2.2	7.2	9.4	4.7	7.5	6.7	3.1
24	2.4	1.8	60	2.0	48	2.0	5.4	12	6.0	7.1	5.5	4.0
25	32	1.3	54	1.6	33	9.8	4.4	11	5.3	7.3	3.9	5.0
26	51	3.2	33	1.5	19	4.4	3.5	4.3	5.6	7.3	4.8	5.4
27	17	4.3	13	1.9	20	4.8	3.8	2.4	6.6	7.2	5.6	5.2
28	8.4	5.5	1.7	1.8	65	5.1	6.5	6.4	7.1	5.8	5.3	3.2
29	2.9	5.2	.85	.87	44	4.6	7.9	6.6	7.0	5.9	5.4	2.4
30	8.9	4.9	14	.79	---	5.0	5.0	5.8	4.8	6.4	5.2	4.3
31	15	---	23	.60	---	3.8	---	5.9	---	6.3	4.5	---
TOTAL	313.1	324.86	309.83	1611.43	731.75	544.7	196.8	201.5	173.9	207.3	179.3	139.1
MEAN	10.1	10.8	9.99	52.0	25.2	17.6	6.56	6.50	5.80	6.69	5.78	4.64
MAX	53	65	60	328	106	88	13	12	7.6	18	7.8	7.1
MIN	1.2	.96	.85	.20	.29	1.1	2.2	2.4	2.6	3.1	3.9	2.1
AC-FT	621	644	615	3200	1450	1080	390	400	345	411	356	276
CAL YR 1979	TOTAL	4556.76	MEAN 12.5	MAX 160	MIN .70	AC-FT 9040						
WTR YR 1980	TOTAL	4933.57	MEAN 13.5	MAX 328	MIN .20	AC-FT 9790						

## PAJARO RIVER BASIN

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 mi<sup>2</sup> (33.2 km<sup>2</sup>).

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 except those for periods of no gage-height record, Aug. 15 to Sept. 25, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--19 years, 4.26 ft<sup>3</sup>/s (0.121 m<sup>3</sup>/s), 3,090 acre-ft/yr (3.81 hm<sup>3</sup>/yr).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft<sup>3</sup>/s (4.2 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	(m <sup>3</sup> /s)	Gage height (ft)	(m)
Jan. 12	0930	687	19.5	4.01	1.222
Feb. 16	2200	*818	23.2	4.24	1.292
Feb. 20	2245	709	20.1	4.05	1.234

Minimum daily discharge, 0.01 ft<sup>3</sup>/s (<0.001 m<sup>3</sup>/s) many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.03	.03	2.7	1.0	8.3	1.6	.83	.34	.08	.03	.02
2	.04	.03	.03	1.4	1.0	13	1.6	.83	.34	.19	.02	.02
3	.04	.07	.03	.97	.92	28	1.5	.83	.32	.11	.03	.01
4	.05	.05	.03	.80	.92	15	1.5	.78	.30	.10	.04	.01
5	.06	.04	.03	.69	.91	28	13	.69	.29	.10	.04	.01
6	.06	.04	.02	.64	.83	40	4.0	.66	.29	.10	.04	.01
7	.06	.04	.02	.58	.83	24	2.4	.66	.25	.09	.03	.01
8	.06	.05	.03	.54	.76	16	2.0	.66	.25	.10	.03	.01
9	.06	.05	.03	21	.74	12	1.8	.70	.24	.09	.02	.01
10	.06	.04	.04	21	.74	9.5	1.6	.68	.24	.08	.01	.01
11	.06	.04	.04	184	.73	7.5	1.5	.69	.23	.06	.01	.01
12	.02	.03	.04	164	.66	6.2	1.3	.66	.21	.06	.01	.01
13	.02	.03	.04	194	.66	5.5	1.2	.66	.21	.06	.01	.01
14	.04	.03	.04	159	1.2	4.9	1.2	.62	.21	.06	.02	.01
15	.03	.03	.04	82	29	4.3	1.2	.58	.21	.05	.03	.01
16	.02	.04	.04	54	242	3.7	1.2	.55	.20	.06	.03	.01
17	.02	.12	.04	36	204	3.5	1.1	.51	.17	.07	.03	.01
18	.02	.04	.05	27	275	3.3	1.0	.51	.15	.07	.03	.01
19	.13	.04	.05	13	199	3.0	1.0	.46	.15	.07	.03	.01
20	.12	.04	.06	7.6	186	2.7	1.0	.45	.14	.07	.02	.01
21	.06	.04	.06	5.0	358	2.6	1.1	.45	.13	.07	.02	.01
22	.05	.04	.06	3.6	70	2.5	1.3	.45	.12	.07	.02	.01
23	.05	.04	.07	2.8	35	2.3	1.4	.45	.12	.06	.02	.01
24	.05	.03	12	2.3	20	2.2	1.2	.45	.12	.06	.02	.01
25	.09	.03	18	2.1	15	2.6	1.1	.45	.12	.06	.02	.01
26	.05	.04	3.3	1.8	10	2.5	1.0	.45	.11	.05	.02	.01
27	.05	.03	.94	1.6	8.8	2.1	1.0	.45	.11	.05	.02	.02
28	.05	.03	.62	1.5	19	2.0	1.0	.42	.10	.05	.02	.02
29	.05	.03	.54	1.4	10	1.8	.96	.37	.08	.04	.02	.02
30	.04	.03	13	1.2	---	1.8	.88	.37	.08	.04	.02	.02
31	.04	---	8.1	1.1	---	1.7	---	.37	---	.04	.02	---
TOTAL	1.60	1.22	57.42	995.32	1692.70	262.5	53.64	17.69	5.83	2.26	.73	.36
MEAN	.052	.041	1.85	32.1	58.4	8.47	1.79	.57	.19	.073	.024	.012
MAX	.13	.12	18	194	358	40	13	.83	.34	.19	.04	.02
MIN	.02	.03	.02	.54	.66	1.7	.88	.37	.08	.04	.01	.01
AC-FT	3.2	2.4	114	1970	3360	521	106	35	12	4.5	1.4	.7
CAL YR 1979 TOTAL	588.67	MEAN 1.61	MAX 114	MIN 0	AC-FT 1170							
WTR YR 1980 TOTAL	3091.27	MEAN 8.45	MAX 358	MIN .01	AC-FT 6130							

## PAJARO RIVER BASIN

73

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 mi<sup>2</sup> (378 km<sup>2</sup>).

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 hm<sup>3</sup>). Small diversions above station for irrigation.

AVERAGE DISCHARGE.--41 years, 33.6 ft<sup>3</sup>/s (0.952 m<sup>3</sup>/s), 24,340 acre-ft/yr (30.0 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft<sup>3</sup>/s (357 m<sup>3</sup>/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 ft<sup>3</sup>/s (153 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,160 ft<sup>3</sup>/s (174 m<sup>3</sup>/s) Feb.21, gage height, 14.58 ft (4.444 m);

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	0	4.4	109	15	5.8	1.7	13	9.8	8.6
2		0	0	0	4.2	104	13	5.5	1.7	17	10	8.4
3		0	0	0	3.9	227	12	5.4	1.7	14	12	8.3
4		0	0	0	3.7	162	12	5.0	1.4	13	12	8.1
5		0	0	0	3.5	215	48	4.6	1.4	13	12	8.0
6		0	0	0	3.4	314	53	4.2	1.3	13	11	8.1
7		0	0	0	3.5	226	31	4.3	.84	12	10	8.3
8		0	0	0	3.2	166	23	3.9	.76	12	11	8.4
9		0	0	0	2.8	127	27	3.9	.68	12	11	8.3
10		0	0	.74	3.0	103	16	4.2	.63	12	11	7.9
11		0	0	890	3.0	87	14	4.0	.35	12	11	7.9
12		0	0	895	2.9	73	12	4.1	.27	12	11	7.9
13		0	0	674	3.1	63	11	4.1	.18	12	11	8.0
14		0	0	758	3.3	56	10	4.0	.95	12	10	7.9
15		0	0	506	14	50	9.9	3.7	19	12	10	8.0
16		0	0	274	755	45	10	3.3	24	11	9.9	7.7
17		.02	0	277	2350	41	9.0	3.1	26	11	9.9	7.8
18		0	0	323	2990	39	8.3	3.0	26	11	10	7.5
19		0	0	164	2010	35	7.8	3.5	27	11	9.7	7.6
20		0	0	90	1330	31	7.4	3.4	26	11	9.3	7.8
21		0	0	57	3680	29	7.8	3.4	25	11	9.5	7.8
22		0	0	39	928	27	8.5	3.5	14	11	9.6	7.5
23		0	0	27	451	25	8.5	3.3	9.8	11	9.5	7.3
24		0	.03	21	276	23	8.7	2.9	8.7	11	9.8	4.8
25		0	.30	16	201	24	8.7	3.0	8.5	11	11	2.9
26		0	0	13	155	28	8.3	2.7	7.8	10	9.7	2.6
27		0	0	11	128	25	7.9	2.5	7.4	10	9.0	2.4
28		0	0	9.4	208	22	7.2	2.2	7.2	10	9.0	1.6
29		0	0	8.1	144	19	7.4	2.1	11	10	8.8	1.2
30		0	0	6.5	---	18	6.6	2.0	13	10	8.6	.94
31		---	0	4.9	---	17	---	2.1	---	10	8.6	---
TOTAL	0	.02	.33	5064.64	15667.9	2530	429.0	112.7	274.26	361	314.7	199.54
MEAN	0	.0007	.011	163	540	81.6	14.3	3.64	9.14	11.6	10.2	6.65
MAX	0	.02	.30	895	3680	314	53	5.8	27	17	12	8.6
MIN	0	0	0	0	2.8	17	6.6	2.0	.18	10	8.6	.94
AC-FT	0	.04	.7	10050	31080	5020	851	224	544	716	624	396
CAL YR 1979	TOTAL	3813.46	MEAN	10.4	MAX	788	MIN	0	AC-FT	7560		
WTR YR 1980	TOTAL	24954.09	MEAN	68.2	MAX	3680	MIN	0	AC-FT	49500		

## PAJARO RIVER BASIN

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 18060D02, 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 mi<sup>2</sup> (24.94 km<sup>2</sup>).

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 except those for period of no gage-height record, July 22 to Sept. 22, which are poor. Small diversion above station by pumping.

AVERAGE DISCHARGE.--9 years, 8.77 ft<sup>3</sup>/s (0.248 m<sup>3</sup>/s), 6,350 acre-ft/yr (7.83 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 969 ft<sup>3</sup>/s (27.4 m<sup>3</sup>/s) Jan. 16, 1978, gage height, 7.50 ft (2.286 m), from rating curve extended above 180 ft<sup>3</sup>/s (5.10 m<sup>3</sup>/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 ft<sup>3</sup>/s (5.7 m<sup>3</sup>/s) and maximum (\*) from rating curve extended as explained above:

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	1615	219	6.20	3.88	1.183	Feb. 16	1115	514	14.6	5.06	1.542
Jan. 11	0330	214	6.06	3.86	1.177	Feb. 19	0745	*757	21.4	6.03	1.838
Jan. 13	2030	607	17.2	5.44	1.658						

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.50	.60	16	8.5	49	7.2	5.6	2.9	1.3	.31	.03
2	0	.56	.62	10	8.4	50	6.6	5.7	2.8	1.8	.28	.02
3	0	.78	.55	8.5	7.9	46	6.0	5.3	2.9	1.8	.27	.02
4	0	1.0	.55	6.8	7.2	42	6.3	4.3	2.9	1.6	.26	.02
5	0	.64	.54	5.6	6.6	84	59	4.2	2.7	1.4	.22	.02
6	0	.45	.69	4.9	6.4	65	27	4.2	2.6	1.4	.20	.02
7	0	.45	.71	5.1	5.8	54	17	3.8	2.5	1.3	.18	.02
8	0	.57	.72	4.6	5.4	49	14	3.7	2.4	1.2	.16	.02
9	0	.47	.64	18	5.0	45	12	6.0	2.3	1.1	.15	.02
10	0	.47	.84	21	5.0	41	13	5.9	2.3	1.1	.13	.02
11	0	.47	.85	106	4.6	37	14	5.5	2.3	1.0	.11	.01
12	0	.44	.85	143	4.6	34	13	5.5	2.3	1.1	.10	.01
13	0	.40	.85	254	4.4	31	12	5.5	2.2	1.1	.09	.01
14	0	.38	.96	237	7.2	29	12	5.3	2.1	1.1	.09	.01
15	0	.36	.96	113	25	27	11	4.9	2.0	1.0	.08	.01
16	0	.37	.96	71	184	24	11	4.6	1.9	.90	.07	.01
17	0	.95	.96	58	266	19	10	4.5	1.9	.86	.07	.01
18	0	.70	.96	43	354	17	10	4.2	1.8	.86	.06	.01
19	0	.60	1.5	42	443	15	9.6	4.1	1.8	.85	.06	.01
20	.41	.55	1.8	32	278	14	9.4	3.9	1.8	.75	.05	.01
21	.33	.55	1.8	27	298	13	9.4	3.8	1.7	.75	.05	.01
22	.14	.57	1.9	24	165	11	9.5	3.8	1.6	.71	.05	.01
23	.12	.74	7.9	20	114	11	9.3	3.7	1.4	.67	.04	0
24	.10	.74	85	16	87	10	9.0	3.8	1.5	.60	.04	0
25	1.9	.65	27	14	66	11	8.8	3.9	1.5	.56	.04	0
26	.91	.61	9.6	13	56	9.9	8.4	3.8	1.4	.52	.03	0
27	.48	.60	5.8	11	70	9.4	7.5	3.7	1.3	.47	.03	0
28	.36	.64	4.2	11	74	8.9	6.1	3.6	1.2	.43	.03	0
29	.48	.64	3.4	10	54	8.4	5.3	3.3	1.1	.40	.03	0
30	.37	.62	29	9.3	---	8.1	5.4	3.1	1.2	.35	.03	0
31	.42	---	28	8.9	---	7.8	---	3.0	---	.33	.03	---
TOTAL	6.02	17.47	220.71	1363.7	2621.0	880.5	358.8	136.2	60.3	29.31	3.34	.33
MEAN	.19	.58	7.12	44.0	90.4	28.4	12.0	4.39	2.01	.95	.11	.011
MAX	1.9	1.0	85	254	443	84	59	6.0	2.9	1.8	.31	.03
MIN	0	.36	.54	4.6	4.4	7.8	5.3	3.0	1.1	.33	.03	0
AC-FT	12	35	438	2700	5200	1750	712	270	120	58	6.6	.7

CAL YR 1979 TOTAL 2148.09 MEAN 5.89 MAX 98 MIN 0 AC-FT 4260  
WTR YR 1980 TOTAL 5697.68 MEAN 15.6 MAX 443 MIN 0 AC-FT 11300

## 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 mi<sup>2</sup> (50.0 km<sup>2</sup>). 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 hm<sup>3</sup>) 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, 8,520 acre-ft (10.5 hm<sup>3</sup>) Feb. 19, 1980, elevation, 526.5 ft (160.47 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, 8,520 acre-ft (10.5 hm<sup>3</sup>) Feb. 19, elevation, 526.5 ft (160.47 m); no minimum observed.

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 mi<sup>2</sup> (78.7 km<sup>2</sup>). 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 hm<sup>3</sup>) 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 hm<sup>3</sup>) 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, 10,710 acre-ft (13.2 hm<sup>3</sup>) Feb. 19, elevation, 490.0 ft (149.35 m); minimum observed 575 acre-ft (709,000 m<sup>3</sup>) Dec. 23, elevation 428.2 ft (130.51 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY  
STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Chesbro Reservoir	Uvas Reservoir
Sept. 30, 1979..	1450	2110
Oct. 31.....	1010	1540
Nov. 30.....	650	940
Dec. 31.....	800	1510
Jan. 31, 1980...	4790	9980
Feb. 29.....	7380	10060
Mar. 31.....	8020	9980
Apr. 30.....	8000	9980
May 31.....	7400	9980
June 30.....	6460	9810
July 31.....	4600	9000
Aug. 31.....	1410	8050
Sept. 30.....	--	7110

## PAJARO RIVER BASIN

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 mi<sup>2</sup> (1,033 km<sup>2</sup>).

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, Jan. 13 to Jan. 25, which are poor. Flow regulation by Pacheco Lake, capacity, 6,150 acre-ft (7.58 hm<sup>3</sup>), Chesbro Reservoir (station 11153480) 21 mi (34 km) upstream, and San Felipe Lake. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--21 years, 57.8 ft<sup>3</sup>/s (1.637 m<sup>3</sup>/s), 41,880 acre-ft/yr (51.6 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,900 ft<sup>3</sup>/s (365 m<sup>3</sup>/s) Jan. 25, 1969, gage height, 14.63 ft (4.459 m), from rating curve extended above 4,800 ft<sup>3</sup>/s (136 m<sup>3</sup>/s); no flow many days in 1961-62, 1971, 1976-78.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,090 ft<sup>3</sup>/s (144 m<sup>3</sup>/s) Feb. 21, gage height, 15.27 ft (4.654 m); minimum daily discharge, 0.26 ft<sup>3</sup>/s (0.007 m<sup>3</sup>/s) Dec. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.7	.47	4.1	6.2	228	29	13	15	12	9.7	16
2	1.2	1.5	.41	2.4	5.4	217	28	12	15	18	9.3	14
3	1.2	1.5	.39	2.1	5.1	301	24	12	12	16	8.8	10
4	1.5	1.7	.32	2.4	5.3	265	22	12	8.3	13	10	7.9
5	2.0	1.6	.32	1.9	5.1	323	85	13	8.9	13	10	7.7
6	1.6	1.6	.35	2.2	5.2	492	105	11	8.9	15	10	6.4
7	2.0	1.5	.36	2.5	5.6	331	80	10	9.9	14	10	7.0
8	1.4	1.7	.32	2.2	5.5	272	62	9.2	12	16	11	7.5
9	1.4	1.7	.26	11	5.2	231	51	8.9	11	14	12	7.7
10	1.9	2.0	.27	18	5.3	197	45	9.5	10	12	15	5.9
11	1.6	1.6	.37	310	5.4	171	38	8.8	10	13	12	13
12	1.5	1.7	.44	882	5.1	148	32	8.9	8.7	11	11	9.5
13	1.3	1.9	.39	1250	5.2	130	27	8.5	10	12	11	12
14	.85	2.2	.41	1550	7.7	110	23	7.6	8.2	10	13	11
15	.92	2.4	.41	930	24	87	21	8.0	8.5	9.9	14	7.8
16	1.2	2.4	.41	540	198	73	19	11	7.8	12	13	3.6
17	1.5	3.9	.41	500	1510	69	18	12	7.5	11	13	1.5
18	1.7	2.3	.41	620	3120	62	16	13	11	12	13	.97
19	2.0	2.1	.75	330	3770	58	15	14	15	11	12	.69
20	3.2	2.1	1.9	240	4150	52	14	13	13	10	13	1.0
21	2.5	2.1	.45	160	4840	48	14	13	14	10	12	1.0
22	2.6	2.1	.45	115	4300	45	14	12	11	11	10	1.0
23	2.6	2.1	.92	79	2680	42	15	12	11	13	10	.68
24	2.4	2.1	61	60	1660	39	14	14	10	13	13	.86
25	3.1	2.0	52	44	1140	38	13	13	8.2	12	14	.74
26	4.0	2.0	15	33	609	38	13	11	11	15	15	1.3
27	2.0	1.7	3.2	23	401	39	14	9.8	14	14	17	1.6
28	1.9	1.6	1.8	17	361	361	12	13	13	11	14	2.1
29	1.7	1.8	1.5	13	283	35	12	16	16	10	16	2.0
30	1.6	2.5	21	9.9	---	33	12	14	12	9.5	13	2.2
31	1.6	---	20	7.6	---	30	---	14	---	12	15	---
TOTAL	57.37	59.1	186.69	7762.3	29123.3	4565	887	357.2	330.9	385.4	379.8	164.64
MEAN	1.85	1.97	6.02	250	1004	147	29.6	11.5	11.0	12.4	12.3	5.49
MAX	4.0	3.9	61	1550	4840	492	105	16	16	18	17	16
MIN	.85	1.5	.26	1.9	5.1	30	12	7.6	7.5	9.5	8.8	.68
AC-FT	114	117	370	15400	57770	9050	1760	709	656	764	753	327
CAL YR 1979 TOTAL	7897.18			MEAN 21.6	MAX 967	MIN .19	AC-FT 15660					
WTR YR 1980 TOTAL	44258.70			MEAN 121	MAX 4840	MIN .26	AC-FT 87790					



## 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 mi<sup>2</sup> (54.4 km<sup>2</sup>).

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.--19 years, 26.6 ft<sup>3</sup>/s (0.753 m<sup>3</sup>/s), 19,300 acre-ft/yr (23.8 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,580 ft<sup>3</sup>/s (186 m<sup>3</sup>/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 ft<sup>3</sup>/s (23 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 24	1630	1150 32.6	7.29 2.222	Feb. 19	0930	3260 92.3	9.78 2.981
Jan. 11	0230	933 26.4	6.93 2.112	Apr. 5	0315	1210 34.3	7.38 2.249
Jan. 13	1945	*3620 103	10.13 3.088				

Minimum daily discharge, 0.29 ft<sup>3</sup>/s (0.008 m<sup>3</sup>/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	1.1	1.5	32	22	129	22	17	7.3	3.0	1.4	1.4
2	.45	1.1	1.5	20	21	132	21	16	7.4	6.0	1.5	.96
3	.58	2.2	1.5	15	21	118	21	16	6.9	11	1.3	.83
4	.61	2.3	1.4	12	20	103	27	15	7.0	8.6	1.3	1.2
5	.65	1.6	1.4	9.7	20	231	370	14	6.7	7.0	1.3	1.0
6	.64	1.4	1.4	8.4	19	228	80	14	6.4	6.1	1.3	.77
7	.62	1.5	1.5	7.5	18	145	57	14	6.2	5.3	1.4	.61
8	.69	2.0	1.4	7.1	17	118	45	14	5.9	4.6	1.4	1.2
9	.74	1.6	1.4	68	17	100	38	16	5.6	3.9	1.4	1.5
10	.74	1.5	1.5	48	16	87	36	15	5.1	3.4	1.4	1.6
11	.75	1.5	1.5	488	16	79	34	14	5.1	3.1	1.4	1.4
12	.60	1.4	1.6	946	15	72	30	14	5.0	2.7	1.4	1.2
13	.73	1.4	1.6	1720	15	66	28	14	5.0	2.5	1.7	1.2
14	.64	1.4	1.6	961	24	60	27	13	4.7	2.4	2.0	1.2
15	.71	1.4	1.6	252	69	55	26	13	4.4	2.3	2.0	1.3
16	.79	1.4	1.6	150	631	50	24	12	4.4	2.2	2.1	1.1
17	.77	3.8	1.6	124	1040	46	23	11	4.1	2.0	2.4	1.1
18	.78	2.4	1.5	90	948	43	22	11	3.9	2.0	1.8	.97
19	2.7	1.9	2.0	67	1550	40	21	11	3.7	2.0	1.9	1.0
20	4.4	1.7	2.2	55	934	38	22	10	3.5	2.2	2.5	1.0
21	2.0	1.6	2.2	48	961	36	22	9.7	3.4	2.2	2.0	.96
22	1.2	1.6	2.0	43	478	33	22	9.7	3.4	2.2	1.9	.76
23	1.0	1.9	9.6	40	328	30	21	9.3	3.3	2.0	1.4	.50
24	.92	1.7	237	37	246	28	20	9.3	3.3	2.2	1.8	.47
25	7.7	1.7	49	35	200	30	20	9.0	3.2	2.2	1.6	.42
26	3.4	1.7	19	32	164	27	19	9.0	3.1	2.2	1.5	.42
27	1.8	1.7	11	30	204	25	18	8.9	3.1	2.1	1.9	.45
28	1.4	1.6	7.8	28	239	24	18	8.8	3.0	2.0	1.6	.54
29	1.2	1.6	6.3	27	153	23	17	8.0	3.0	2.1	1.6	.59
30	1.1	1.6	64	25	---	23	17	7.7	2.9	1.9	1.3	---
31	1.1	---	44	23	---	22	---	7.8	---	1.5	1.7	---
TOTAL	41.70	51.3	483.2	5448.7	8406	2241	1168	371.2	140.0	104.9	51.2	28.27
MEAN	1.35	1.71	15.6	176	290	72.3	38.9	12.0	4.67	3.38	1.65	.94
MAX	7.7	3.8	237	1720	1550	231	370	17	7.4	11	2.5	1.6
MIN	.29	1.1	1.4	7.1	15	22	17	7.7	2.9	1.5	1.3	.42
AC-FT	83	102	958	10810	16670	4450	2320	736	278	208	102	56
CAL YR 1979 TOTAL	5465.80			MEAN 15.0	MAX 387	MIN .29	AC-FT 10840					
WTR YR 1980 TOTAL	18535.47			MEAN 50.6	MAX 1720	MIN .29	AC-FT 36770					

## PAJARO RIVER BASIN

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 mi<sup>2</sup> (19.17 km<sup>2</sup>).

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.--21 years, 3.50 ft<sup>3</sup>/s (0.099 m<sup>3</sup>/s), 2,540 acre-ft/yr (3.13 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,240 ft<sup>3</sup>/s (35.1 m<sup>3</sup>/s) Jan. 31, 1963, gage height, 8.25 ft (2.515 m), from rating curve extended above 580 ft<sup>3</sup>/s (16.4 m<sup>3</sup>/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft<sup>3</sup>/s (4.2 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	0930	267	7.56	5.40	1.646	Feb. 17	1845	197	5.58	4.95	1.509
Jan. 14	unknown	*470	13.3	6.65	2.027	Feb. 27	0630	176	4.98	4.80	1.463

Minimum daily discharge, 0.02 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Oct. 1-4, 6-8, 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.14	.21	2.5	3.2	13	4.2	3.0	1.5	.86	.35	.20
2	.02	.14	.21	1.8	3.1	15	4.0	3.1	1.7	1.3	.34	.21
3	.02	.27	.20	1.3	3.1	18	3.9	2.8	1.5	.99	.35	.22
4	.02	.25	.18	1.4	3.1	14	4.4	2.7	1.6	1.0	.42	.19
5	.03	.16	.18	1.2	2.9	22	51	2.8	1.5	.88	.42	.20
6	.02	.14	.18	1.3	2.8	36	16	2.6	1.5	.81	.41	.17
7	.02	.16	.18	1.5	2.7	28	10	2.6	1.5	.79	.36	.17
8	.02	.29	.18	1.4	2.5	20	8.2	2.4	1.3	.78	.35	.18
9	.03	.18	.18	1.3	2.0	17	7.2	3.9	1.4	.89	.26	.19
10	.03	.15	.18	1.9	1.8	14	6.5	5.4	1.3	.91	.23	.19
11	.03	.24	.17	4.6	1.8	12	6.0	4.3	1.2	.92	.22	.19
12	.04	.24	.16	15	1.8	11	5.5	3.4	1.2	.94	.22	.19
13	.04	.21	.18	26	1.9	10	5.2	3.3	1.3	.93	.24	.19
14	.05	.21	.17	33	3.5	9.5	4.9	3.1	1.3	.92	.27	.18
15	.05	.21	.18	23	6.5	9.0	4.8	2.9	1.3	.88	.27	.17
16	.03	.30	.24	15	26	8.1	4.1	2.8	1.2	.90	.27	.17
17	.02	.73	.29	13	63	7.7	3.3	2.6	1.2	.98	.28	.15
18	.02	.30	.40	15	60	7.4	3.2	2.4	1.2	.97	.29	.16
19	.56	.23	.79	12	70	6.8	3.2	2.5	1.2	.96	.29	.16
20	.66	.21	.63	11	69	6.4	3.7	2.0	1.2	.91	.26	.16
21	.22	.21	.59	8.6	110	6.1	4.5	2.4	1.1	.84	.23	.17
22	.15	.22	.59	7.3	44	5.8	5.1	2.1	1.1	.79	.25	.15
23	.13	.27	1.9	6.5	27	5.6	4.7	1.9	.98	.72	.27	.12
24	.11	.21	26	5.8	21	5.5	3.9	1.9	.99	.65	.22	.10
25	.69	.21	15	5.3	17	5.7	3.9	1.8	.99	.61	.20	.10
26	.29	.31	5.4	4.8	15	5.4	3.4	1.8	.94	.55	.20	.10
27	.17	.25	2.4	4.4	16	5.0	3.3	2.1	.89	.51	.20	.10
28	.14	.23	1.4	4.1	19	4.8	3.5	1.9	.92	.48	.22	.10
29	.13	.21	1.1	3.8	14	4.5	3.4	1.7	.81	.45	.21	.09
30	.14	.21	10	3.5	---	4.5	3.3	1.5	.91	.42	.19	.08
31	.14	---	7.0	3.4	---	4.2	---	1.5	---	.39	.20	---
TOTAL	4.04	7.09	76.47	240.7	613.7	342.0	198.3	81.2	36.73	24.93	8.49	4.75
MEAN	.13	.24	2.47	7.76	21.2	11.0	6.61	2.62	1.22	.80	.27	.16
MAX	.69	.73	26	33	110	36	51	5.4	1.7	1.3	.42	.22
MIN	.02	.14	.16	1.2	1.8	4.2	3.2	1.5	.81	.39	.19	.08
AC-FT	8.0	14	152	477	1220	678	393	161	73	49	17	9.4
CAL YR 1979	TOTAL	853.65	MEAN	2.34	MAX	66	MIN	.02	AC-FT	1690		
WTR YR 1980	TOTAL	1638.40	MEAN	4.48	MAX	110	MIN	.02	AC-FT	3250		

## PAJARO RIVER BASIN

79

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 mi<sup>2</sup> (184.4 km<sup>2</sup>).

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.--21 years, 35.7 ft<sup>3</sup>/s (1.011 m<sup>3</sup>/s), 25,860 acre-ft/yr (31.9 hm<sup>3</sup>/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,710 ft<sup>3</sup>/s (105 m<sup>3</sup>/s) Feb. 19, gage height, 10.94 ft (3.335 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	12	25	230	40	27	4.7	0		
2			0	5.7	23	234	37	25	4.4	0		
3			0	1.7	20	263	35	24	3.8	.80		
4			0	.32	18	205	33	22	2.7	3.0		
5			0	.03	14	322	41	21	2.5	7.0		
6			0	0	13	483	631	19	2.5	6.3		
7			0	0	20	376	233	17	2.8	5.8		
8			0	0	26	289	138	15	3.0	5.4		
9			0	6.2	11	247	109	16	4.2	5.3		
10			0	54	4.6	215	94	28	4.2	2.0		
11			0	478	1.7	189	82	27	2.3	.10		
12			0	1130	.87	162	71	21	1.5	0		
13			0	969	.57	143	65	19	.42	0		
14			0	851	2.2	130	60	17	.30	0		
15			0	352	28	123	56	16	.20	0		
16			0	252	398	110	52	15	.13	0		
17			0	416	1240	100	47	13	.05	0		
18			0	374	2080	95	45	12	0	0		
19			0	275	2290	87	43	11	0	0		
20			0	210	1740	77	40	9.7	0	1.0		
21			0	166	2260	75	41	9.4	0	2.0		
22			0	133	1100	70	45	9.1	0	1.5		
23			0	115	654	65	48	7.1	0	.60		
24			0	101	442	61	41	11	0	.35		
25			2.9	88	329	59	38	9.1	0	.10		
26			1.6	70	284	64	35	7.4	0	0		
27			0	57	238	57	32	6.8	0	0		
28			0	49	416	53	31	5.6	0	0		
29			0	42	272	49	30	5.3	0	0		
30			17	35	---	45	29	5.1	0	0		
31		---	28	29	---	45	---	4.9	---	0		---
TOTAL	0	0	49.5	6271.95	13930.94	4723	2322	455.5	39.70	41.25	0	0
MEAN	0	0	1.60	202	480	152	77.4	14.7	1.32	1.33	0	0
MAX	0	0	28	1130	2290	483	631	28	4.7	7.0	0	0
MIN	0	0	0	0	.57	45	29	4.9	0	0	0	0
AC-FT	0	0	98	12440	27630	9370	4610	903	79	82	0	0
CAL YR 1979	TOTAL	3927.77	MEAN	10.8	MAX	406	MIN	0	AC-FT	7790		
WTR YR 1980	TOTAL	27833.84	MEAN	76.0	MAX	2290	MIN	0	AC-FT	55210		

## PAJARO RIVER BASIN

11156500 SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL, CA

LOCATION.--Lat 36°36'34", long 121°12'07", in SE4SE4 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 mi<sup>2</sup> (645 km<sup>2</sup>).

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 hm<sup>3</sup>). Small diversion above station for irrigation.

AVERAGE DISCHARGE.--41 years, 25.2 ft<sup>3</sup>/s (0.714 m<sup>3</sup>/s), 18,260 acre-ft/yr (22.5 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,210 ft<sup>3</sup>/s (232 m<sup>3</sup>/s) Apr. 3, 1958, gage height, 8.35 ft (2.545 m), site and datum then in use, from rating curve extended above 600 ft<sup>3</sup>/s (17.0 m<sup>3</sup>/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, 581 ft<sup>3</sup>/s (16.5 m<sup>3</sup>/s) Feb. 19, gage height, 6.64 ft (2.024 m); minimum daily, 3.3 ft<sup>3</sup>/s (0.093 m<sup>3</sup>/s) Dec. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	3.7	4.0	9.1	6.5	24	50	26	59	43	48	42
2	50	3.6	3.9	7.5	6.0	24	45	26	59	53	50	40
3	49	4.1	3.7	6.7	5.5	49	41	23	60	57	50	37
4	50	4.9	3.6	6.5	5.2	45	40	21	60	53	52	36
5	48	4.4	3.7	6.3	4.8	47	43	19	61	52	51	34
6	47	4.2	3.6	6.1	4.5	143	62	19	59	52	54	35
7	47	4.2	3.7	6.0	4.4	104	71	18	29	52	55	35
8	48	4.8	3.5	5.9	4.4	65	60	17	21	53	55	36
9	47	4.6	3.3	16	4.1	54	52	17	44	53	55	36
10	45	4.3	3.4	22	4.0	48	46	20	49	52	60	34
11	44	4.1	3.4	40	4.0	45	41	19	51	51	68	34
12	44	3.9	3.4	90	3.9	62	34	19	51	50	70	33
13	30	3.9	3.5	131	4.1	85	29	17	51	49	73	33
14	18	3.9	3.4	188	6.0	84	25	16	50	48	76	33
15	14	3.7	3.4	108	6.9	86	21	15	50	52	78	33
16	12	3.5	3.4	50	67	89	20	14	56	44	79	33
17	9.5	5.8	3.4	39	303	88	22	13	67	42	79	32
18	7.8	5.6	3.4	35	126	80	27	13	69	52	79	32
19	6.7	4.9	3.5	27	338	79	27	13	70	52	80	32
20	7.1	4.7	3.6	23	377	75	25	12	71	52	80	32
21	6.9	4.7	4.6	20	422	72	25	12	70	52	80	32
22	6.0	4.5	5.2	16	186	73	28	12	70	48	80	31
23	5.4	4.3	4.3	14	101	69	31	12	74	46	81	30
24	4.8	4.2	33	12	69	66	30	12	52	45	82	30
25	5.1	4.1	35	11	49	67	27	34	40	42	81	30
26	6.9	4.4	19	10	39	72	26	39	38	41	81	29
27	5.3	4.2	14	9.1	34	65	24	38	36	49	80	29
28	4.5	4.3	12	8.5	37	59	25	38	35	48	81	29
29	4.2	4.1	9.8	9.0	29	52	31	39	34	46	61	29
30	3.9	4.0	9.5	7.7	---	47	29	55	35	51	46	28
31	3.8	---	10	7.1	---	52	---	58	---	47	43	---
TOTAL	731.9	129.6	227.2	947.5	2251.3	2070	1057	706	1571	1527	2088	989
MEAN	23.6	4.32	7.33	30.6	77.6	66.8	35.2	22.8	52.4	49.3	67.4	33.0
MAX	51	5.8	35	188	422	143	71	58	74	57	82	42
MIN	3.8	3.5	3.3	5.9	3.9	24	20	12	21	41	43	28
AC-FT	1450	257	451	1880	4470	4110	2100	1400	3120	3030	4140	1960
CAL YR 1979 TOTAL	10351.3			MEAN 28.4	MAX 226	MIN 2.4	AC-FT 20530					
WTR YR 1980 TOTAL	14295.5			MEAN 39.1	MAX 422	MIN 3.3	AC-FT 28360					

## 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 mi<sup>2</sup> (534 km<sup>2</sup>).

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).--41 years, 14.2 ft<sup>3</sup>/s (0.402 m<sup>3</sup>/s), 10,290 acre-ft/yr (12.7 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,060 ft<sup>3</sup>/s (228 m<sup>3</sup>/s) Apr. 4, 1941, gage height, 7.75 ft (2.362 m), from rating curve extended above 3,500 ft<sup>3</sup>/s (99.1 m<sup>3</sup>/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.--Peak discharges above base of 450 ft<sup>3</sup>/s (13 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 14	0415	*3690	105	8.74	2.664	Feb. 21	0530	2740	77.6	8.08	2.463
Feb. 19	0800	1590	45	7.27	2.216						

Minimum daily discharge, 2.8 ft<sup>3</sup>/s (0.079 m<sup>3</sup>/s) Nov. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	2.9	3.0	3.2	12	39	8.6	11	7.6	16	14	15
2	3.1	2.8	3.0	3.2	12	38	8.6	12	7.5	16	18	15
3	3.1	3.0	3.0	3.2	12	86	8.5	12	7.6	16	21	15
4	3.1	3.0	3.2	3.2	12	55	8.3	11	7.8	16	22	15
5	3.1	3.0	3.2	3.2	12	89	9.8	9.5	7.8	16	21	14
6	3.1	3.0	3.1	3.2	12	146	12	9.5	9.0	16	22	14
7	3.2	3.0	3.1	3.2	12	57	9.8	9.5	19	16	21	14
8	3.2	3.0	3.0	3.2	12	41	9.3	9.1	21	15	21	14
9	3.2	3.0	3.0	3.2	12	33	8.4	9.3	22	15	20	14
10	3.1	3.0	3.0	8.0	12	28	9.3	9.7	17	15	20	14
11	3.0	3.0	3.0	83	12	26	12	9.6	16	15	20	14
12	3.1	3.0	3.0	305	12	24	12	9.8	16	15	20	15
13	3.2	3.0	3.0	610	11	20	12	9.9	16	15	19	15
14	3.2	3.0	3.0	1130	11	18	12	10	16	15	20	15
15	3.2	3.0	3.0	134	11	16	12	9.8	16	15	19	15
16	3.2	3.0	3.0	77	66	15	12	10	16	15	19	15
17	3.2	3.1	3.0	90	103	14	12	9.7	17	15	19	15
18	3.1	3.0	3.0	89	76	13	12	10	16	15	20	15
19	3.0	3.0	3.0	44	493	13	12	9.4	16	14	20	15
20	3.1	3.0	3.0	29	393	12	12	9.6	16	15	20	15
21	3.0	3.0	3.0	21	873	12	12	8.9	16	15	20	15
22	3.0	3.0	3.0	16	232	12	11	8.9	16	15	20	15
23	3.0	3.0	3.2	14	130	11	11	8.5	16	15	20	15
24	3.0	3.0	3.6	14	78	10	12	8.1	16	15	20	15
25	3.1	3.0	3.3	14	63	12	12	8.1	16	14	20	12
26	3.0	3.0	3.2	13	54	15	12	7.9	16	14	18	4.7
27	3.0	3.0	3.2	13	48	12	12	7.9	16	14	15	4.5
28	3.0	3.0	3.2	13	58	11	13	8.3	15	15	15	4.4
29	3.0	3.0	3.2	13	44	11	12	8.4	15	14	15	4.4
30	3.0	3.0	3.2	13	---	10	12	7.9	16	14	15	4.3
31	3.0	---	3.2	13	---	9.0	---	7.7	---	14	15	---
TOTAL	95.7	89.8	95.9	2784.8	2888	908.0	331.6	291.0	445.3	465	589	387.3
MEAN	3.09	2.99	3.09	89.8	99.6	29.3	11.1	9.39	14.8	15.0	19.0	12.9
MAX	3.2	3.1	3.6	1130	873	146	13	12	22	16	22	15
MIN	3.0	2.8	3.0	3.2	11	9.0	8.3	7.7	7.5	14	14	4.3
AC-FT	190	178	190	5520	5730	1800	658	577	883	922	1170	768
CAL YR 1979	TOTAL	3712.0	MEAN 10.2	MAX 337	MIN 2.8	AC-FT 7360						
WTR YR 1980	TOTAL	9371.4	MEAN 25.6	MAX 1130	MIN 2.8	AC-FT 18590						

## PAJARO RIVER BASIN

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 mi<sup>2</sup> (1,518 km<sup>2</sup>).

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. Flow regulated by Hernandez Reservoir 67 mi (108 km) upstream beginning in December 1961, capacity, 18,700 acre-ft (23.1 hm<sup>3</sup>). Several small diversions above station for irrigation.

AVERAGE DISCHARGE.--31 years, 30.5 ft<sup>3</sup>/s (0.864 m<sup>3</sup>/s), 22,100 acre-ft/yr (27.2 hm<sup>3</sup>/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,250 ft<sup>3</sup>/s (92.0 m<sup>3</sup>/s) Jan. 14, gage height, 11.89 ft (3.624 m), from rating curve extended above 180 ft<sup>3</sup>/s (5.10 m<sup>3</sup>/s); minimum daily 1.8 ft<sup>3</sup>/s (0.051 m<sup>3</sup>/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	6.1	6.3	12	15	66	63	12	31	22	28	26
2	2.3	6.0	6.4	11	12	65	62	9.6	34	26	29	24
3	2.3	6.4	6.1	10	8.8	162	61	7.6	35	38	34	23
4	1.9	7.9	5.9	9.3	6.4	122	63	7.8	37	37	38	23
5	1.8	7.5	5.7	8.7	5.0	162	77	6.8	38	35	38	25
6	2.2	6.9	5.1	8.7	4.2	407	85	6.6	39	35	37	25
7	2.4	6.7	5.2	8.6	3.7	278	37	11	18	36	37	26
8	2.4	6.9	5.1	8.4	3.3	182	33	12	13	38	38	27
9	2.4	7.0	5.0	9.5	3.0	147	29	7.4	9.6	37	37	28
10	2.4	7.0	5.3	15	2.8	126	26	6.6	10	36	37	27
11	2.4	6.7	5.5	183	2.7	113	28	6.4	23	35	40	27
12	4.4	6.5	5.5	509	2.5	102	39	6.6	25	34	40	27
13	13	6.4	5.5	1020	2.5	91	37	7.6	27	33	40	26
14	16	6.1	5.5	1410	2.5	79	34	7.0	27	31	37	27
15	13	6.1	5.5	390	2.8	72	33	7.1	28	30	32	27
16	12	6.0	5.5	189	62	66	32	5.7	28	30	32	27
17	10	7.1	5.5	157	431	61	25	4.6	28	31	33	27
18	8.9	7.6	5.5	208	257	58	22	4.8	39	31	35	27
19	8.3	7.5	5.8	91	724	57	22	6.4	42	32	34	28
20	8.9	7.0	5.8	53	1020	53	21	5.4	43	33	43	29
21	8.7	7.0	6.1	36	1390	52	19	6.5	43	33	47	30
22	8.1	7.0	6.6	32	690	52	18	9.6	34	32	47	29
23	7.5	7.0	7.0	30	448	48	18	13	28	31	42	29
24	7.1	7.0	9.4	29	249	45	17	11	24	30	40	29
25	6.9	6.4	20	28	151	88	16	9.0	20	30	40	28
26	7.5	6.4	20	27	106	110	15	8.7	18	27	35	14
27	7.9	6.2	16	26	89	87	14	14	16	27	30	5.8
28	7.2	6.3	14	26	108	81	15	16	20	29	31	5.7
29	6.6	6.3	12	24	80	79	17	15	21	28	30	11
30	6.3	6.4	11	21	---	73	14	15	22	27	28	13
31	6.2	---	12	18	---	67	---	16	---	26	27	---
TOTAL	199.1	201.4	245.8	4608.2	5882.2	3251	992	282.8	820.6	980	1116	720.5
MEAN	6.42	6.71	7.93	149	203	105	33.1	9.12	27.4	31.6	36.0	24.0
MAX	16	7.9	20	1410	1390	407	85	16	43	38	47	30
MIN	1.8	6.0	5.0	8.4	2.5	45	14	4.6	9.6	22	27	5.7
AC-FT	395	399	488	9140	11670	6450	1970	561	1630	1940	2210	1430
CAL YR 1979	TOTAL	8204.3	MEAN	22.5	MAX	424	MIN	1.8	AC-FT	16270		
WTR YR 1980	TOTAL	19299.6	MEAN	52.7	MAX	1410	MIN	1.8	AC-FT	38280		

## 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 mi<sup>2</sup> (1,572 km<sup>2</sup>).

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 hm<sup>3</sup>). Some small diversions above station for irrigation.

AVERAGE DISCHARGE.--10 years, 27.0 ft<sup>3</sup>/s (0.765 m<sup>3</sup>/s), 19,560 acre-ft/yr (24.1 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,030 ft<sup>3</sup>/s (227 m<sup>3</sup>/s) Feb. 11, 1973, gage height, 9.18 ft (2.798 m), from rating curve extended above 2,400 ft<sup>3</sup>/s (68.0 m<sup>3</sup>/s); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,550 ft<sup>3</sup>/s (72.2 m<sup>3</sup>/s) Jan. 14, gage height, 6.90 ft (2.103 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0		0	7.0	15	84	33	2.9	5.1	10	12	13
2	0		0	6.5	13	83	31	1.4	14	15	12	12
3	0		0	6.0	10	126	31	.23	14	21	14	11
4	0		0	5.6	8.2	115	34	.03	17	26	19	12
5	9.0		0	5.0	6.2	116	38	0	21	22	22	12
6	0		0	4.9	4.6	240	35	0	25	22	20	13
7	0		0	4.9	3.6	205	30	0	17	21	21	12
8	0		0	4.8	3.1	140	24	.78	4.3	22	22	13
9	0		0	5.6	2.8	118	20	.21	.46	23	21	14
10	0		0	10	2.6	103	18	.64	0	24	19	13
11	0		0	95	2.4	96	19	0	2.1	24	18	13
12	0		0	400	2.2	84	27	0	9.0	21	19	13
13	0		0	840	2.1	75	28	.07	10	20	18	13
14	0		0	1250	2.0	64	23	0	12	17	17	13
15	0		0	390	2.0	58	23	0	12	15	13	13
16	0		0	175	25	53	23	0	13	14	9.5	12
17	0		0	124	374	49	16	0	14	14	9.9	13
18	0		0	249	270	47	12	0	21	16	11	13
19	0		0	94	580	44	11	0	31	18	11	14
20	0		0	52	833	43	11	0	34	20	12	14
21	0		0	35	1040	42	9.6	0	36	22	15	14
22	0		0	27	552	41	8.8	0	31	21	20	14
23	0		0	24	371	36	8.4	.03	23	17	20	14
24	0		2.0	23	193	40	8.1	0	16	17	20	13
25	0		26	22	137	36	6.0	0	11	16	20	13
26	0		31	21	91	57	5.6	0	7.8	15	18	8.9
27	0		21	21	84	83	4.3	0	6.6	12	15	.86
28	0		16	20	89	70	4.7	0	6.6	14	16	.57
29	0		12	20	84	58	6.5	0	8.2	14	15	.57
30	0		6.4	18	---	40	4.9	0	9.9	13	14	.91
31	0	---	6.7	16	---	37	---	.51	---	12	13	---
TOTAL	9.0	0	121.1	3976.3	4802.8	2483	553.9	6.80	432.06	558	506.4	335.81
MEAN	.29	0	3.91	128	166	80.1	18.5	.22	14.4	18.0	16.3	11.2
MAX	9.0	0	31	1250	1040	240	38	2.9	36	26	22	14
MIN	0	0	0	4.8	2.0	36	4.3	0	0	10	9.5	.57
AC-FT	18	0	240	7890	9530	4930	1100	13	857	1110	1000	666
CAL YR 1979	TOTAL	6626.51	MEAN 18.2	MAX 554	MIN 0	AC-FT 13140						
WTR YR 1980	TOTAL	13785.17	MEAN 37.7	MAX 1250	MIN 0	AC-FT 27340						

## PAJARO RIVER BASIN

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 mi<sup>2</sup> (26.4 km<sup>2</sup>).

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 except those for periods of no gage-height record, Oct. 1 to Nov. 7, Dec. 5 to Jan. 14, and Jan. 18 to Feb. 18, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--10 years, 3.18 ft<sup>3</sup>/s (0.090 m<sup>3</sup>/s), 2,300 acre-ft/yr (2.84 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 337 ft<sup>3</sup>/s (9.54 m<sup>3</sup>/s) Feb. 20, 1980, gage height, 7.11 ft (2.167 m), from rating curve extended above 150 ft<sup>3</sup>/s (4.25 m<sup>3</sup>/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft<sup>3</sup>/s (2.0 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 14	unknown	330 9.35	7.00 2.134	Mar. 6	1445	227 6.43	5.92 1.804
Feb. 20	2400	*337 9.54	7.11 2.167				

Minimum daily discharge, 0.01 ft<sup>3</sup>/s (<0.001 m<sup>3</sup>/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.22	.28	6.0	4.8	10	4.7	2.4	1.8	1.2	.34	.26
2	.01	.22	.28	2.8	4.7	17	4.3	2.3	1.8	1.7	.32	.26
3	.02	.41	.28	2.2	4.7	25	3.9	2.2	1.7	1.3	.38	.25
4	.02	.39	.28	1.9	4.6	14	4.6	2.1	1.7	1.1	.42	.24
5	.02	.32	.28	2.0	4.3	30	28	2.1	1.6	1.0	.38	.24
6	.02	.22	.28	1.8	4.1	84	10	2.0	1.5	1.0	.36	.23
7	.02	.20	.28	2.0	3.9	61	6.7	2.0	1.5	1.0	.33	.23
8	.03	.27	.40	2.1	3.6	40	5.7	2.0	1.4	.98	.33	.25
9	.04	.27	.28	1.9	3.3	28	5.1	3.4	1.4	.95	.33	.27
10	.04	.20	.28	2.1	2.8	22	4.8	5.1	1.4	.91	.30	.25
11	.04	.20	.27	6.6	2.8	19	4.4	3.7	1.3	.90	.28	.25
12	.04	.20	.26	20	2.8	16	3.8	2.6	1.2	.93	.28	.26
13	.05	.20	.27	45	3.3	15	3.6	2.3	1.2	.95	.31	.28
14	.06	.20	.29	54	4.4	14	3.5	2.2	1.2	.92	.36	.25
15	.06	.20	.27	31	7.4	13	3.3	2.0	1.1	.85	.34	.22
16	.03	.25	.35	17	27	11	3.1	1.9	1.1	.83	.31	.20
17	.02	2.0	.45	37	45	10	3.2	1.9	1.2	.86	.33	.19
18	.03	.37	.60	22	47	9.7	3.1	1.8	1.3	.85	.32	.19
19	.07	.20	1.2	18	50	8.8	3.0	1.8	1.3	.85	.28	.20
20	1.0	.20	1.1	16	71	8.2	3.1	1.8	1.2	.82	.23	.20
21	.40	.28	.94	13	191	7.9	7.1	1.8	1.2	.79	.24	.18
22	.25	.28	.94	11	90	7.4	6.6	1.7	1.2	.57	.27	.16
23	.21	.28	1.5	9.7	44	6.8	4.7	1.7	1.2	.60	.28	.14
24	.18	.28	37	8.5	31	6.5	3.4	1.7	1.2	.62	.25	.14
25	1.1	.28	23	7.8	26	10	3.0	1.8	1.2	.58	.25	.14
26	.60	.36	8.8	7.1	22	6.9	2.8	1.8	1.1	.56	.26	.17
27	.31	.28	5.2	6.6	21	6.2	2.7	1.7	1.1	.52	.26	.19
28	.24	.28	2.4	6.1	22	5.7	2.7	1.7	1.0	.51	.25	.19
29	.20	.28	1.6	5.7	14	5.4	2.7	1.7	1.1	.48	.25	.16
30	.22	.28	14	5.2	---	5.3	2.6	1.7	1.1	.44	.22	.15
31	.22	---	10	5.1	---	4.9	---	1.7	---	.41	.23	---
TOTAL	5.56	9.62	113.36	377.2	762.5	528.7	150.2	66.6	39.3	25.98	9.29	6.34
MEAN	.18	.32	3.66	12.2	26.3	17.1	5.01	2.15	1.31	.84	.30	.21
MAX	1.1	2.0	37	54	191	84	28	5.1	1.8	1.7	.42	.28
MIN	.01	.20	.26	1.8	2.8	4.9	2.6	1.7	1.0	.41	.22	.14
AC-FT	11	19	225	748	1510	1050	298	132	78	52	18	13

CAL YR 1979 TOTAL 820.00 MEAN 2.25 MAX 58 MIN 0 AC-FT 1630  
WTR YR 1980 TOTAL 2094.65 MEAN 5.72 MAX 191 MIN .01 AC-FT 4150



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 mi<sup>2</sup> (3,072 km<sup>2</sup>).

## 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 hm<sup>3</sup>), Pacheco Lake, capacity, 6,150 acre-ft (7.58 hm<sup>3</sup>), Chesbro Reservoir (station 11153480), Uvas Reservoir (station 11154020), and San Felipe Lake. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--41 years, 142 ft<sup>3</sup>/s (4.021 m<sup>3</sup>/s), 102,900 acre-ft/yr (127 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,000 ft<sup>3</sup>/s (680 m<sup>3</sup>/s) Dec. 24, 1955, gage height, 32.46 ft (9.894 m), from rating curve extended above 8,300 ft<sup>3</sup>/s (235 m<sup>3</sup>/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, 8,890 ft<sup>3</sup>/s (252 m<sup>3</sup>/s) Feb. 21, gage height, 21.08 ft (6.425 m); minimum daily, 1.2 ft<sup>3</sup>/s (0.034 m<sup>3</sup>/s) Oct. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	2.0	3.0	49	63	660	88	43	20	16	11	12
2	2.5	2.0	3.4	20	56	620	80	40	19	24	10	11
3	2.1	2.5	3.0	11	50	986	71	36	20	29	9.2	12
4	1.8	2.8	2.6	8.1	46	765	68	34	18	21	8.4	12
5	2.0	2.4	2.6	7.1	41	910	487	33	17	17	9.2	12
6	3.0	2.3	2.3	6.2	38	1670	610	33	17	16	11	12
7	2.9	2.2	2.1	5.6	35	1430	351	30	18	16	12	13
8	2.4	2.2	1.9	5.3	32	993	270	28	20	17	11	12
9	2.1	2.1	1.9	17	29	804	212	29	20	18	13	14
10	2.0	2.0	1.8	145	27	680	185	40	19	18	13	13
11	1.9	2.0	1.8	1020	25	589	161	40	20	18	12	11
12	1.9	2.1	1.6	2670	24	520	148	32	19	19	13	18
13	1.9	2.0	1.6	3580	22	469	143	31	18	17	12	15
14	1.9	2.0	1.6	4780	21	432	119	31	18	17	14	16
15	1.5	2.1	1.7	2870	59	380	102	27	18	17	15	14
16	1.3	2.2	1.7	1710	230	342	88	26	17	15	16	10
17	1.2	6.0	1.6	1650	1300	310	77	25	17	16	14	7.3
18	1.4	5.9	1.6	1900	2700	293	66	24	17	16	13	6.2
19	2.1	4.0	1.8	1220	4800	267	61	23	22	15	12	4.4
20	3.1	3.1	1.8	889	6200	241	55	23	22	14	11	3.6
21	4.2	2.7	2.1	560	8100	226	57	22	20	12	12	3.2
22	3.5	2.6	2.2	400	5800	201	67	23	18	12	11	3.3
23	2.7	2.5	2.3	305	4100	170	71	22	16	13	10	3.3
24	2.3	2.4	81	235	3000	158	61	21	16	13	10	3.2
25	2.7	2.4	256	185	2200	165	57	22	18	14	13	2.9
26	4.1	2.5	107	150	1500	193	55	20	15	14	13	3.2
27	4.4	2.3	20	128	1300	180	49	18	15	15	14	3.5
28	3.2	2.2	9.4	108	1110	152	46	19	16	12	13	3.8
29	2.5	2.1	6.8	94	835	132	46	21	16	12	13	4.6
30	2.1	2.0	28	81	---	113	45	22	16	12	13	4.2
31	2.0	---	110	72	---	96	---	21	---	11	11	---
TOTAL	75.8	77.6	666.2	24881.3	43743	15147	3996	859	542	496	372.8	263.7
MEAN	2.45	2.59	21.5	803	1508	489	133	27.7	18.1	16.0	12.0	8.79
MAX	4.4	6.0	256	4780	8100	1670	610	43	22	29	16	18
MIN	1.2	2.0	1.6	5.3	21	96	45	18	15	11	8.4	2.9
AC-FT	150	154	1320	49350	86760	30040	7930	1700	1080	984	739	523
CAL YR 1979 TOTAL	19216.1		MEAN 52.6		MAX 1900	MIN 1.2	AC-FT 38120					
WTR YR 1980 TOTAL	91120.4		MEAN 249		MAX 8100	MIN 1.2	AC-FT 180700					

## PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

## WATER-QUALITY RECORDS

## PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1952 to current year.  
 BIOLOGICAL DATA: Water years 1978 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  $\pm 10$  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, 352 micromhos Feb. 17, 1980.  
 WATER TEMPERATURES: Maximum recorded,  $30^\circ\text{C}$  May 30, 1978; minimum recorded,  $2^\circ\text{C}$  Dec. 26, 1978.

## EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,520 micromhos Nov. 30, Dec. 12, 17-18; minimum recorded, 352 micromhos Feb. 17.  
 WATER TEMPERATURES: Maximum recorded,  $27.5^\circ\text{C}$  Aug. 1; minimum recorded,  $4^\circ\text{C}$  Dec. 12.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT 16...	1130	1.4	2000	7.8	16.0	17	7.0	--	56	140	510
23...A	1325	3.0	1710	7.9	24.0	--	9.2	--	--	--	500
NOV 20...	1000	3.2	2080	8.2	7.0	2.2	10.2	82	220	380	560
DEC 18...	1130	1.6	2490	8.0	5.0	1.2	11.2	--	K8	K21	620
JAN 22...A	1230	1000	529	7.7	10.0	--	9.9	--	--	--	190
29...	1030	94	869	7.9	11.0	26	8.8	79	140	380	310
MAR 11...	1130	589	622	7.6	13.0	84	9.4	90	290	460	230
25...	1100	156	900	8.0	12.0	50	10.1	94	640	210	320
APR 14...	1200	117	866	7.7	17.0	22	8.6	91	170	K62	320
MAY 20...A	1045	50	1350	8.2	17.0	--	8.6	--	--	--	500
21...	1300	22	1380	7.9	17.0	20	8.4	88	970	150	490
JUN 18...	1100	17	1540	7.9	17.0	19	8.4	86	410	1100	500
JUL 22...	1300	12	1580	8.0	21.0	35	8.6	98	240	50	480
AUG 20...	1300	12	1240	7.9	20.0	70	8.4	88	2000	1500	360
SEP 09...	1100	15	1150	7.8	17.5	44	8.8	91	350	1000	380
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 (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)
OCT 16...	39	85	72	240	50	4.6	5.1	470	150	300	.3
23...	--	75	75	190	45	3.7	4.4	--	--	230	--
NOV 20...	53	95	79	240	68	4.4	4.1	510	160	330	.3
DEC 18...	120	110	85	300	51	5.2	5.6	500	160	420	.3
JAN 22...	--	36	24	38	30	1.2	2.7	--	--	30	--
29...	79	53	43	69	32	1.7	2.7	200	150	62	.2
MAR 11...	48	42	30	46	30	1.3	2.6	180	97	33	.2
25...	96	54	44	67	31	1.6	2.3	220	140	53	.2
APR 14...	100	57	44	62	29	1.5	2.2	220	140	55	.2
MAY 20...	--	86	69	110	32	2.1	2.6	--	--	110	--
21...	150	85	68	120	34	2.4	3.2	340	190	140	.3
JUN 18...	130	82	72	140	38	2.7	5.2	370	220	150	.6
JUL 22...	90	80	68	180	45	3.6	4.4	390	260	160	.6
AUG 20...	92	61	51	120	42	2.7	3.6	270	150	140	.3
SEP 09...	40	63	54	110	38	2.5	3.8	340	120	110	.2

A Chemical-quality samples collected by Santa Clara Valley Water District.

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

## PAJARO RIVER BASIN

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11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE 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)
OCT 16...	20	1170	1160	1.59	4.42	--	.40	.40	.35	.26
23...	--	936	--	1.27	7.58	1.1	--	--	--	--
NOV 20...	23	1210	1240	1.65	10.5	--	--	.37	.14	.14
DEC 18...	26	1370	1390	1.86	5.92	--	.43	.34	.28	.27
JAN 22...	--	338	--	.46	913	1.7	--	--	--	--
29...	20	529	535	.72	134	--	3.1	3.1	.08	.07
MAR 11...	18	389	385	.53	619	--	1.8	1.8	.04	.04
25...	15	527	520	.72	222	--	2.7	2.7	--	.10
APR 14...	19	518	524	.70	164	--	2.9	2.8	--	.12
MAY 20...	--	868	--	1.18	117	7.0	--	--	--	--
21...	21	871	833	1.18	51.7	--	7.3	7.0	.14	.13
JUN 18...	25	1030	943	1.40	47.3	--	5.8	5.8	.10	.10
JUL 22...	23	1030	1030	1.40	33.4	--	4.9	4.8	.07	.09
AUG 20...	21	707	721	.96	22.9	--	2.6	2.6	.06	.06
SEP 09...	23	--	701	.55	28.4	--	2.8	2.8	.08	.11

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDEED (MG/L AS C)
OCT 16...	1.5	.84	1.8	1.1	2.2	.26	.22	--	7.3	.3
23...	--	--	--	--	--	--	--	--	--	--
NOV 20...	1.5	.65	1.6	.79	--	.31	.27	19	--	--
DEC 18...	.82	.70	1.1	.97	1.5	.25	.20	9.4	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--
29...	--	1.3	--	1.4	--	.16	.10	9.7	--	--
MAR 11...	.80	.59	.84	.63	2.6	.19	.05	--	4.6	--
25...	--	.74	.86	.84	3.6	.17	.06	5.8	--	--
APR 14...	--	.66	1.2	.78	4.1	.11	.07	5.7	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--
21...	1.3	.87	1.4	1.0	8.7	.27	.21	--	11	.7
JUN 18...	1.7	1.4	1.8	1.5	7.6	.30	.21	20	--	--
JUL 22...	1.6	1.4	1.7	1.5	6.6	.29	.23	12	--	--
AUG 20...	1.2	1.0	1.3	1.1	3.9	.37	.26	--	11	.8
SEP 09...	1.3	1.4	1.4	1.5	4.2	.28	.19	--	--	--

## PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)		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)	
OCT																			
16...	1130	--		8		100		200		--		0		<1		10		10	
23...	1325	--		--		--		--		900		--		--		--		--	
DEC																			
18...	1130	--		--		--		--		--		--		--		--		--	
JAN																			
22...	1230	--		--		--		--		300		--		--		--		--	
MAR																			
11...	1130	2		5		200		70		--		1		<1		30		0	
25...	1100	--		--		--		--		--		--		--		--		--	
MAY																			
20...	1045	--		--		--		--		600		--		--		--		--	
21...	1300	5		3		200		100		--		0		<1		20		20	
JUN																			
18...	1100	--		--		--		--		--		--		--		--		--	
AUG																			
20...	1300	7		6		200		100		--		0		<1		40		0	
SEP																			
09...	1100	--		--		--		--		--		--		--		--		--	

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)		MANGA- NESE, DIS- SOLVED (UG/L AS MN)	
OCT																				
16...	0		<3		1		0		190		20		0		0		280		270	
23...	--		--		--		--		--		--		--		--		--		--	
DEC																				
18...	--		--		--		--		--		--		--		--		--		--	
JAN																				
22...	--		--		--		--		--		--		--		--		--		--	
MAR																				
11...	4		<3		12		3		6800		10		6		0		170		20	
25...	--		--		--		--		--		--		--		--		--		--	
MAY																				
20...	--		--		--		--		--		--		--		--		--		--	
21...	2		<3		8		3		1600		<10		3		0		230		160	
JUN																				
18...	--		--		--		--		--		--		--		--		--		--	
AUG																				
20...	3		<3		10		4		5100		20		3		3		300		120	
SEP																				
09...	--		--		--		--		--		--		--		--		--		--	

DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)		MERCURY DIS- SOLVED (UG/L AS HG)		NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)		NICKEL, DIS- SOLVED (UG/L AS NI)		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																				
16...	--		.2		6		6		0		0		0		0		10		<3	
23...	--		--		--		--		--		--		--		--		--		--	
DEC																				
18...	--		--		--		--		--		--		0		--		--		--	
JAN																				
22...	--		--		--		--		--		--		--		--		--		--	
MAR																				
11...	.8		.0		37		2		1		1		0		0		70		<3	
25...	--		--		--		--		--		--		0		--		--		--	
MAY																				
20...	--		--		--		--		--		--		--		--		--		--	
21...	.1		.0		19		10		2		2		0		0		20		6	
JUN																				
18...	--		--		--		--		--		--		0		--		--		--	
AUG																				
20...	.1		.0		24		8		1		1		0		0		140		9	
SEP																				
09...	--		--		--		--		--		--		0		--		--		--	

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON--Continued

DATE TIME	JUL 22,80 1300	AUG 20,80 1300	SEP 9,80 1100
TOTAL CELLS/ML	12000	7800	930
DIVERSITY: DIVISION	0.9	1.4	1.9
..CLASS	0.9	1.4	1.9
..ORDER	1.3	2.0	2.6
...FAMILY	1.5	2.4	3.1
....GENUS	1.6	3.2	3.4

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....COELASTRACEAE						
....COELASTRUM	--	-	860	11	--	-
....MICRACTINIACEAE						
....GOLENKINIA	--	-	--	-	13	1
....MICRACTINIUM	--	-	--	-	100	11
....OOCYSTACEAE						
....ANKISTRODESMUS	300	2	110	1	26	3
....SELENASTRUM	100	1	--	-	13	1
....SCENEDESMACEAE						
....SCENEDESMUS	1400	11	430	5	26	3
....TETRASTRUM	400	3	--	-	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CARTERIA	--	-	370	5	--	-
....CHLAMYDOMONAS	--	-	110	1	90	10
CHRYSTOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
....CHAETOCERACEAE						
....CHAETOCEROS	--	-	54	1	--	-
....COSCINODISCACEAE						
....CYCLOTELLA	8600#	69	2100#	27	210#	22
....MELOSIRA	--	-	1800#	23	26	3
....STEPHANODISCUS	--	-	110	1	--	-
..PENNALES						
....ACHNANTHACEAE						
....COCONEIS	--	-	54	1	13	1
....FRAGILARIACEAE						
....FRAGILARIA	--	-	--	-	--	-
....MERIDIONACEAE						
....MERIDION	--	-	--	-	--	-
....NAVICULACEAE						
....DIPLOEIS	--	-	54	1	--	-
....NAVICULA	--	-	210	3	13	1
....NITZSCHIA	1100	9	480	6	52	6
....NITZSCHIA						
....SURIPELLACEAE						
....SURIPELLA	--	-	54	1	26	3
..CHRYSTOPHYCEAE						
...CHRYSONOMADALES						
....CHROMULINACEAE						
....CHROMULINA	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
....CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	--	-
....CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
....ANACYSTIS	100	1	--	-	39	4
....COCCOCHLORIS	--	-	--	-	--	-
..HORMOGONALES						
....OSCILLATORIACEAE						
....OSCILLATORIA	--	-	700	9	210#	22
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
....EUGLENACEAE						
....EUGLENA	200	2	110	1	39	4
....LEPOCINCLIS	--	-	54	1	--	-
....PHACUS	--	-	--	-	--	-
....TRACHELOMONAS	200	2	110	1	39	4

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

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

## PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE TIME	NOV 20,79 1100	MAR 25,80 1100	MAY 21,80 1300	JUN 18,80 1100				
TOTAL CELLS/ML	5600	3400	1400	2600				
DIVERSITY: DIVISION	1.2	0.7	1.0	1.0				
..CLASS	1.3	0.7	1.0	1.0				
...ORDER	1.4	1.4	1.5	1.9				
...FAMILY	1.4	1.7	1.7	2.3				
....GENUS	2.0	2.0	1.7	2.3				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	--	-	--	-
...MICRACTINIUM	--	-	--	-	--	-	320	12
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	150	4	39	3	20	1
...SELENASTRUM	--	-	--	-	--	-	20	1
...SCENEDESMACEAE								
...SCENEDESMUS	200	4	--	-	150	11	160	6
...TETRASTRUM	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	51	1	150	4	39	3	920#	36
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...CHAETOCERACEAE								
....CHAETOCEROS	--	-	--	-	--	-	--	-
...COSCINODISCACEAE								
...CYCLOTELLA	150	3	2200#	63	940#	69	820#	32
...MELOSIRA	--	-	230	7	--	-	--	-
...STEPHANODISCUS	51	1	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
...COCONEIS	100	2	--	-	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	230	7	--	-	--	-
...MERIDIONACEAE								
....MERIDION	--	-	39	1	--	-	--	-
...NAVICULACEAE								
....DIPLOEIS	--	-	--	-	--	-	--	-
....NAVICULA	--	-	--	-	13	1	40	2
...NITZSCHIA								
....NITZSCHIA	--	-	350	10	100	8	260	10
...SURIARELLACEAE								
....SURIARELLA	--	-	--	-	--	-	--	-
..CHRYSOPHYCEAE								
...CHRYSOMONADALES								
...CHROMULINACEAE								
....CHROMULINA	460	8	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE					13	1	--	-
...CHROOMONAS	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE								
....CRYPTOMONAS	150	3	39	1	13	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	39	1	--	-	--	-
...COCCOCHLORIS	150	3	--	-	--	-	--	-
...HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....EUGLENA	3400#	61	--	-	52	4	20	1
...LEPOCINCLIS	--	-	--	-	--	-	--	-
...PHACUS	810	14	--	-	--	-	--	-
...TRACHELOMONAS	51	1	39	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 1979 TO SEPTEMBER 1980

## 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)	SAMPLING METHOD
NOV 20...	1000	35	12.2	10.2	28.6	7.46	69.9	POLYETHYLENE STRIP
JUN 18...	1100	28	14.3	10.3	54.8	2.73	73.0	POLYETHYLENE STRIP
AUG 20...	1300	29	36.7	31.2	54.4	4.33	101	POLYETHYLENE STRIP

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1750	1660	1700	2160	1960	2060	2420	2010	2190	1060	848	911
2	1930	1730	1800	2160	2010	2070	2160	2060	2130	1190	997	1050
3	1980	1810	1890	2090	1730	1950	2260	2010	2160	1450	1190	1320
4	2090	1890	1960	2110	1850	1980	2260	2060	2200	1660	1450	1540
5	1980	1750	1860	2190	2030	2100	2320	2060	2200	1830	1660	1740
6	1730	1550	1630	2220	2060	2140	2360	2140	2270	2010	1830	1910
7	1700	1560	1620	2220	2140	2160	2360	2140	2280	2090	1930	2040
8	1750	1650	1700	2220	2030	2130	2390	2190	2330	2140	2060	2100
9	1830	1680	1740	2320	2110	2210	2360	2320	2350	2090	1090	1940
10	1830	1650	1750	2420	2140	2260	2390	2290	2350	1830	970	1460
11	1850	1680	1760	2390	2110	2250	2490	2260	2390	945	541	680
12	1790	1680	1730	2320	2090	2210	2520	2320	2460	756	412	528
13	1750	1660	1720	2290	2110	2230	2490	2220	2410	474	413	444
14	1770	1680	1730	2290	2090	2210	2450	2260	2400	527	474	498
15	1960	1770	1810	2290	2110	2200	2450	2160	2360	538	525	533
16	1960	1910	1930	2290	1960	2160	2450	2160	2350	558	529	541
17	2110	1890	2030	1960	1590	1710	2520	2260	2430	589	560	569
18	2060	1810	1870	1790	1660	1730	2520	2360	2450	612	576	594
19	1810	1520	1640	1980	1750	1830	2450	2190	2340	724	615	663
20	1550	1400	2020	2260	1980	2080	2390	2290	2340	732	679	716
21	1520	1420	1470	2320	2190	2270	2320	2030	2160	720	659	696
22	1650	1520	1570	2320	2220	2280	2220	2060	2150	701	643	682
23	1750	1610	1670	2260	2110	2220	2220	1710	2150	724	669	702
24	1810	1680	1750	2290	2160	2220	1710	1220	1470	756	694	727
25	1810	1480	1700	2290	2160	2230	1220	769	836	769	724	753
26	1770	1560	1670	2360	2160	2250	1080	810	987	774	744	761
27	1810	1660	1720	2420	2220	2370	1380	1080	1200	760	736	752
28	2010	1810	1880	2490	2260	2400	1590	1380	1490	765	740	756
29	2140	1910	2020	2490	2290	2430	1710	1580	1640	903	869	871
30	2140	1960	2060	2520	2290	2450	1750	800	1420	951	870	913
31	2110	1960	2030	---	---	---	1700	1060	1400	963	909	940
MONTH	2140	1400	1790	2520	1590	2160	2520	769	2040	2140	412	978





TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	15.0	15.0	11.0	11.5	7.5	13.0	11.5	12.5	10.5	15.5	14.0
2	20.0	14.5	15.0	10.5	12.0	9.0	13.0	10.5	13.5	11.5	14.5	13.0
3	19.0	14.0	15.0	13.5	12.5	7.5	12.0	9.0	14.0	11.5	14.0	12.5
4	18.5	15.5	16.0	13.0	11.0	6.5	12.5	9.0	14.5	12.5	14.5	12.0
5	20.0	15.5	15.5	12.5	11.5	8.5	12.0	9.0	14.5	12.5	14.0	13.5
6	20.5	14.0	15.0	11.0	11.0	7.0	12.5	10.0	15.0	12.5	13.5	12.5
7	18.5	14.0	13.5	11.0	12.0	8.0	12.5	9.0	13.5	11.5	14.0	11.0
8	18.0	14.5	15.5	13.0	11.5	7.5	13.0	10.5	12.5	10.0	15.0	12.0
9	18.0	12.0	15.0	12.5	12.0	9.5	13.0	11.5	12.5	10.0	16.0	12.5
10	18.0	12.5	15.0	12.5	12.5	9.0	12.0	11.5	12.5	9.0	15.0	13.5
11	19.0	14.5	15.0	11.5	9.0	6.0	13.0	11.0	13.5	10.0	14.0	13.0
12	18.5	13.5	14.5	10.0	7.5	4.0	15.0	13.0	13.0	9.0	14.5	10.5
13	19.0	15.0	14.0	10.0	8.5	4.5	16.0	15.0	12.0	9.0	15.0	11.0
14	19.0	14.5	13.5	9.0	9.0	5.0	15.5	15.0	12.5	11.0	15.5	11.5
15	19.5	16.5	14.5	12.0	9.0	5.5	15.0	14.5	13.0	11.0	15.5	12.5
16	19.5	15.5	15.0	11.0	9.0	5.0	14.5	14.0	13.5	12.5	16.0	11.0
17	18.0	13.5	15.5	13.0	9.0	5.0	14.5	14.0	13.0	13.0	16.0	11.0
18	17.5	13.5	14.0	10.5	9.5	5.0	14.0	12.5	14.0	13.0	15.5	11.5
19	18.5	16.5	12.0	9.0	11.0	8.5	12.5	11.0	14.0	13.5	16.5	10.5
20	17.0	14.0	10.5	7.0	11.0	8.0	11.5	10.5	13.5	13.0	16.0	12.0
21	17.0	12.0	10.0	5.5	11.5	8.0	11.0	10.5	14.0	12.5	15.0	10.5
22	16.5	11.0	11.5	8.5	9.0	5.5	11.0	10.5	14.0	12.5	16.0	10.0
23	16.5	11.0	13.0	10.0	9.5	6.5	11.5	10.5	14.0	12.5	17.0	12.0
24	17.5	12.5	13.5	9.0	9.5	8.5	11.5	10.5	14.0	13.0	16.5	12.0
25	17.0	14.5	14.0	12.5	9.5	8.5	11.5	10.5	15.0	13.0	---	---
26	16.5	11.0	13.5	9.5	9.5	8.0	12.0	10.5	16.0	14.0	---	---
27	16.5	11.5	11.5	7.5	9.0	6.5	12.5	11.5	16.5	14.5	---	---
28	17.0	13.0	12.0	8.0	8.5	5.5	12.5	11.5	16.5	14.0	17.5	12.0
29	14.5	10.5	12.0	8.0	9.5	6.0	12.5	11.0	16.5	13.5	17.5	12.5
30	14.0	9.0	11.5	8.5	11.0	8.0	11.0	9.0	---	---	18.0	14.0
31	15.5	12.5	---	---	11.5	9.0	11.5	9.5	---	---	17.0	12.5
MONTH	20.5	9.0	16.0	5.5	12.5	4.0	16.0	9.0	16.5	9.0	18.0	10.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	13.0	19.5	16.0	17.0	15.5	20.0	17.5	27.5	20.0	21.5	18.0
2	16.5	12.5	20.0	16.0	20.5	14.0	20.0	17.5	26.5	19.5	21.5	17.5
3	16.5	13.0	20.0	16.5	19.5	13.0	20.5	17.5	24.5	19.0	21.5	17.5
4	15.0	13.5	20.5	17.0	20.5	15.5	23.5	17.0	22.5	18.0	21.5	17.5
5	15.5	14.0	19.5	16.5	21.0	14.0	24.0	17.0	24.0	18.0	21.0	17.5
6	15.0	14.0	20.0	16.0	21.5	14.5	23.0	17.0	24.0	18.5	20.5	17.5
7	16.0	13.0	20.0	16.0	22.0	14.5	23.5	16.5	24.0	18.5	21.0	17.0
8	17.0	14.0	18.0	16.0	22.5	15.0	23.0	16.5	24.0	18.0	18.5	17.5
9	18.0	14.5	16.5	14.5	23.0	16.0	23.5	16.5	24.0	18.0	20.5	17.5
10	17.5	13.5	15.5	13.5	22.5	16.5	24.5	17.0	24.5	18.0	19.0	17.0
11	18.0	13.5	14.0	13.0	22.0	16.0	24.5	17.5	25.0	18.0	21.5	17.5
12	18.5	14.0	15.5	13.5	22.5	16.0	24.0	17.5	24.5	18.5	19.5	17.0
13	18.5	13.5	16.0	14.0	22.0	15.0	21.5	18.5	19.5	18.0	18.5	17.0
14	19.5	15.5	17.5	14.0	22.5	15.5	23.5	18.0	18.0	17.0	19.0	15.0
15	19.5	15.0	19.0	14.5	23.5	16.0	24.0	17.5	19.5	16.5	19.0	15.0
16	19.5	15.5	19.0	15.0	23.5	17.0	24.0	18.0	20.5	16.5	20.0	14.5
17	19.0	16.0	21.0	14.5	23.0	17.0	24.0	18.0	18.5	16.5	21.0	16.0
18	18.0	15.0	21.5	16.0	18.0	17.0	23.5	18.0	17.5	17.0	21.0	16.5
19	19.0	16.0	22.0	16.0	21.0	16.0	23.0	17.5	22.0	17.0	21.5	17.0
20	18.0	16.0	20.0	16.0	22.5	16.5	23.5	18.0	23.5	16.5	19.5	14.5
21	16.0	14.0	18.5	16.0	23.0	16.0	24.0	18.0	23.0	18.0	19.5	14.5
22	14.0	12.5	20.5	15.0	23.0	16.0	25.0	18.0	18.5	17.0	20.0	13.5
23	14.0	13.5	18.5	13.0	23.5	16.0	24.5	18.5	21.5	17.0	20.0	14.0
24	17.0	13.5	17.0	13.0	23.0	16.0	24.0	18.5	22.0	16.0	20.0	14.0
25	18.0	15.5	19.0	12.0	24.0	17.0	24.5	18.0	22.0	17.5	19.0	15.0
26	18.0	14.0	19.0	12.5	24.5	16.0	24.5	18.5	21.5	18.0	18.5	15.5
27	17.5	15.5	18.5	13.5	24.5	17.0	25.0	19.0	22.0	17.5	19.0	16.0
28	16.5	15.5	19.5	14.0	25.5	18.0	25.5	19.5	21.0	17.5	20.0	14.0
29	17.0	15.0	20.5	15.0	22.5	18.5	25.5	19.5	21.5	17.5	20.5	14.0
30	18.5	15.0	19.5	15.5	21.5	18.0	25.5	19.5	22.5	16.5	21.0	15.0
31	---	---	20.5	15.5	---	---	26.0	20.0	22.0	17.0	---	---
MONTH	19.5	12.5	22.0	12.0	25.5	13.0	26.0	16.5	27.5	16.0	21.5	13.5
YEAR	27.5	4.0										

## PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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
OCT							
16...	1220	16.5	1.4	59	.22	--	--
NOV							
20...	1200	7.0	3.2	22	.19	--	--
DEC							
18...	1145	5.5	1.7	27	.12	--	--
JAN							
29...	1225	11.5	94	43	11	--	--
MAR							
11...	1510	15.5	553	266	397	28	36
25...	1245	13.0	151	272	111	36	45
APR							
03...	1100	13.0	85	53	12	69	80
14...	1350	18.5	114	52	16	--	--
MAY							
21...	1330	18.0	22	69	4.1	--	--
JUN							
18...	1015	17.0	17	55	2.5	--	--
JUL							
22...	1215	21.0	12	88	2.9	--	--
AUG							
20...	1320	20.0	12	129	4.2	--	--
SEP							
09...	1220	20.0	14	75	2.8	--	--

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							
16...	--	--	--	73	--	--	--
NOV							
20...	--	--	--	48	--	--	--
DEC							
18...	--	--	--	54	--	--	--
JAN							
29...	--	--	--	99	100	--	--
MAR							
11...	42	47	52	58	70	93	100
25...	53	63	75	87	98	100	--
APR							
03...	85	90	92	94	97	99	100
14...	--	--	--	88	--	--	--
MAY							
21...	--	--	--	61	--	--	--
JUN							
18...	--	--	--	100	--	--	--
JUL							
22...	--	--	--	77	--	--	--
AUG							
20...	--	--	--	97	--	--	--
SEP							
09...	--	--	--	97	--	--	--

## 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 mi<sup>2</sup> (72.0 km<sup>2</sup>).

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 ft<sup>3</sup>/s (0.23 m<sup>3</sup>/s) daily above station for municipal supply, domestic use, and irrigation.

AVERAGE DISCHARGE.--24 years, 14.3 ft<sup>3</sup>/s (0.405 m<sup>3</sup>/s), 10,360 acre-ft/yr (12.8 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,680 (75.9 m<sup>3</sup>/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 ft<sup>3</sup>/s (103 m<sup>3</sup>/s), on basis of contracted-opening measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft<sup>3</sup>/s (17 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	(m <sup>3</sup> /s)	Gage height (ft)	(m)	Date	Time	Discharge (ft <sup>3</sup> /s)	(m <sup>3</sup> /s)	Gage height (ft)	(m)
Jan. 12	1015	*1560	44.2	9.25	2.819	Apr. 5	0600	642	18.2	5.81	1.771
Feb. 19	1100	1100	31.2	7.56	2.304						

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	27	8.5	39	3.3	6.7	1.1	0	0	0
2	0	0	0	15	7.9	42	3.1	6.0	1.4	.30	0	0
3	0	.09	0	10	7.1	38	2.8	5.4	.69	2.0	0	0
4	0	.87	0	7.5	6.6	39	4.5	5.0	1.9	1.2	0	0
5	0	.08	0	6.0	6.1	87	228	4.8	4.4	.80	0	0
6	0	.01	0	4.9	5.5	144	66	4.5	3.6	.48	0	0
7	0	.21	0	4.2	5.2	72	45	4.2	.73	.31	0	0
8	0	.83	0	4.2	3.6	56	37	4.0	.43	.20	0	0
9	0	.07	0	35	3.4	44	31	7.4	.34	.13	0	0
10	0	0	0	45	3.1	42	26	12	.27	.06	0	0
11	0	0	0	305	2.7	39	22	9.6	.29	.05	0	0
12	0	0	0	735	2.6	30	20	8.3	.24	.04	0	0
13	0	0	0	885	2.9	24	18	7.9	1.5	.08	0	0
14	0	0	0	540	11	21	16	6.8	2.2	.08	0	0
15	.06	0	0	208	31	18	15	4.6	.56	.08	0	0
16	0	.84	0	142	99	15	13	4.0	.29	.10	0	0
17	0	5.3	0	146	313	13	12	3.7	.15	.12	.01	0
18	0	2.3	0	104	314	12	12	3.5	.09	.10	.01	0
19	1.2	1.1	.34	75	574	10	11	2.9	.06	.13	.01	0
20	6.1	.71	0	58	407	9.0	11	2.5	.04	.10	0	0
21	.22	.08	0	49	486	8.6	13	2.7	.03	.09	0	0
22	0	0	.08	40	226	7.9	15	2.7	.02	.09	0	0
23	0	.94	12	32	123	7.3	13	2.3	.02	.07	0	0
24	0	1.5	125	27	74	6.6	13	2.6	.01	.07	0	0
25	8.1	1.3	48	23	49	8.6	11	2.3	.01	.07	0	0
26	2.7	2.1	19	19	36	6.9	9.6	2.1	0	.05	0	0
27	.33	1.5	10	16	62	5.7	7.7	1.8	0	.03	0	.09
28	0	.35	6.7	14	98	4.6	7.4	1.9	0	0	0	0
29	0	0	5.2	12	49	3.8	7.5	1.1	0	0	0	0
30	0	0	48	11	---	3.7	7.0	.98	0	0	0	0
31	0	---	35	9.4	---	3.5	---	.97	---	0	0	---
TOTAL	18.71	20.18	309.32	3609.2	3017.2	861.2	700.9	135.25	20.37	6.83	.03	.09
MEAN	.60	.67	9.98	116	104	27.8	23.4	4.36	.68	.22	.001	.003
MAX	8.1	5.3	125	885	574	144	228	12	4.4	2.0	.01	.09
MIN	0	0	0	4.2	2.6	3.5	2.8	.97	0	0	0	0
AC-FT	37	40	614	7160	5980	1710	1390	268	40	14	.06	.2
CAL YR 1979	TOTAL	4075.24	MEAN 11.2	MAX 230	MIN 0	AC-FT 8080						
WTR YR 1980	TOTAL	8699.28	MEAN 23.8	MAX 885	MIN 0	AC-FT 17260						

## 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 mi<sup>2</sup> (26.4 km<sup>2</sup>).

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 except those for period of no gage-height record, Jan. 15 to Feb. 14, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--9 years, 7.64 ft<sup>3</sup>/s (0.216 m<sup>3</sup>/s), 5,540 acre-ft/yr (6.83 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s) Jan. 16, 1973, gage height, 5.65 ft (1.722 m), from rating curve extended above 340 ft<sup>3</sup>/s (9.63 m<sup>3</sup>/s); minimum daily, 0.36 ft<sup>3</sup>/s (0.010 m<sup>3</sup>/s) July 30 to Aug. 2, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft<sup>3</sup>/s (2.8 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 13	2045	*1000 28.3	5.16 1.573	Apr. 5	0515	117 3.31	2.19 0.668
Feb. 19	0800	637 18.0	4.14 1.262				

Minimum daily discharge, 0.88 ft<sup>3</sup>/s (0.025 m<sup>3</sup>/s) Oct. 1-4, 13-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	1.4	1.3	9.2	8.4	25	7.4	5.9	3.7	2.9	2.0	1.6
2	.88	1.4	1.3	6.2	7.8	24	7.3	5.8	3.5	3.9	1.9	1.6
3	.88	1.8	1.3	4.9	7.3	23	7.2	5.6	3.5	3.6	1.9	1.6
4	.88	2.0	1.3	4.1	6.8	22	8.3	5.4	3.8	3.4	1.9	1.6
5	.95	1.7	1.3	3.4	6.4	37	59	5.2	3.6	3.4	1.9	1.6
6	.97	1.6	1.2	3.2	6.0	54	21	5.2	3.4	3.2	1.8	1.4
7	.97	1.6	1.2	2.9	5.6	35	16	5.1	3.4	3.2	1.9	1.4
8	.97	1.9	1.2	3.0	5.6	27	14	4.9	3.4	3.2	2.1	1.4
9	.97	1.7	1.2	9.0	5.5	23	13	5.7	3.4	3.2	2.1	1.3
10	.97	1.6	1.2	13	5.2	21	12	6.0	3.2	3.2	2.1	1.3
11	.97	1.5	1.2	197	5.2	19	11	5.2	3.2	3.0	2.0	1.3
12	.89	1.5	1.2	437	5.2	17	10	5.2	3.2	2.9	1.9	1.3
13	.88	1.5	1.2	464	5.2	16	9.8	5.2	3.2	2.9	1.9	1.3
14	.88	1.4	1.2	261	7.2	15	9.4	5.0	3.2	2.9	1.9	1.3
15	.88	1.4	1.2	61	11	14	8.7	4.9	3.1	2.9	1.9	1.3
16	.88	1.8	1.2	50	54	14	8.4	4.5	3.2	2.9	2.0	1.3
17	.88	3.2	1.2	42	177	13	8.1	4.5	3.2	2.8	2.1	1.3
18	.95	1.9	1.2	36	132	12	7.9	4.3	3.2	2.7	2.0	1.2
19	3.3	1.7	1.6	29	306	12	7.8	4.3	3.2	2.7	2.0	1.3
20	3.5	1.6	1.7	26	209	11	7.6	4.3	3.2	2.7	2.0	1.3
21	1.9	1.5	1.6	23	240	11	7.6	4.1	3.2	2.7	1.9	1.2
22	1.6	1.6	1.6	20	88	10	8.0	4.1	3.0	2.6	1.9	1.2
23	1.5	1.9	3.4	18	56	9.8	7.7	4.1	3.0	2.4	1.9	1.2
24	1.4	1.8	31	16	40	9.5	7.3	3.9	3.0	2.3	1.9	1.1
25	5.7	1.7	13	14	32	10	7.0	3.9	3.2	2.3	1.8	1.1
26	2.7	1.5	5.6	13	27	9.4	6.9	3.9	3.1	2.3	1.8	1.1
27	1.9	1.5	3.9	12	32	8.9	6.7	3.9	3.0	2.2	1.8	1.1
28	1.6	1.5	3.2	11	43	8.4	6.4	3.9	3.0	2.1	1.8	1.1
29	1.5	1.4	2.9	10	31	8.1	6.4	3.7	2.9	2.2	1.8	1.1
30	1.4	1.4	27	9.7	---	7.8	6.1	3.7	2.9	2.2	1.7	1.1
31	1.4	---	16	9.1	---	7.6	---	3.7	---	2.1	1.6	---
TOTAL	45.93	50.0	134.6	1817.7	1565.4	534.5	324.0	145.1	97.1	87.0	59.2	39.0
MEAN	1.48	1.67	4.34	58.6	54.0	17.2	10.8	4.68	3.24	2.81	1.91	1.30
MAX	5.7	3.2	31	464	306	54	59	6.0	3.8	3.9	2.1	1.6
MIN	.88	1.4	1.2	2.9	5.2	7.6	6.1	3.7	2.9	2.1	1.6	1.1
AC-FT	91	99	267	3610	3100	1060	643	288	193	173	117	77
CAL YR 1979 TOTAL	1821.54			MEAN 4.99	MAX 56	MIN .88	AC-FT 3610					
WTR YR 1980 TOTAL	4899.53			MEAN 13.4	MAX 464	MIN .88	AC-FT 9720					

## SOQUEL CREEK BASIN

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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 mi<sup>2</sup> (104.1 km<sup>2</sup>).

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 period of no gage-height record, June 10 to July 9, which are poor. No regulation; small diversion above station for irrigation.

AVERAGE DISCHARGE.--29 years, 41.4 ft<sup>3</sup>/s (1.172 m<sup>3</sup>/s), 29,990 acre-ft/yr (37.0 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft<sup>3</sup>/s (447 m<sup>3</sup>/s) Dec. 23, 1955, gage height, 22.33 ft (6.806 m), from rating curve extended above 2,900 ft<sup>3</sup>/s (82.1 m<sup>3</sup>/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.--Peak discharges above base of 1,000 ft<sup>3</sup>/s (28 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 13	1400	*2630 74.5	9.68 2.950	Feb. 19	0745	2170 61.5	8.89 2.710
Feb. 17	1930	2140 60.6	8.83 2.691				

Minimum daily discharge, 1.1 ft<sup>3</sup>/s (0.031 m<sup>3</sup>/s) Oct. 3, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	3.0	4.1	77	43	137	35	28	15	7.8	3.7	3.1
2	1.2	2.9	4.1	42	40	162	34	28	15	7.8	3.4	3.0
3	1.1	6.9	4.1	29	37	126	33	28	14	7.8	3.5	3.1
4	1.2	7.0	4.1	23	35	209	38	28	14	7.7	3.5	3.1
5	1.2	5.1	4.0	18	33	261	307	29	14	7.6	3.5	3.2
6	1.2	4.3	4.1	16	30	243	100	28	13	7.4	5.0	3.1
7	1.2	4.8	4.0	14	28	178	74	28	13	7.2	5.9	3.1
8	1.1	6.6	4.0	14	27	147	62	27	13	7.1	5.6	3.3
9	1.3	4.5	4.2	78	26	127	54	26	12	6.9	5.1	3.4
10	1.3	4.2	4.3	77	24	115	50	26	11	6.6	4.8	3.4
11	1.2	4.0	4.2	573	23	104	45	26	11	6.2	4.4	3.6
12	1.2	3.8	4.1	966	21	94	41	25	10	5.9	4.4	2.8
13	1.3	3.6	4.2	1260	19	85	38	25	10	5.8	4.5	1.9
14	1.3	3.5	4.3	679	29	79	37	24	9.9	5.7	4.8	1.8
15	1.4	3.5	4.1	380	79	74	36	23	9.8	5.9	4.9	1.9
16	1.3	5.6	4.0	319	351	68	34	22	9.7	5.7	5.3	1.9
17	1.3	13	4.1	269	688	63	32	21	9.6	5.5	5.2	1.9
18	1.7	7.9	4.1	204	466	60	32	20	9.5	5.3	5.1	1.9
19	7.2	5.5	6.8	151	1120	57	31	19	9.4	5.3	5.2	2.0
20	12	4.5	7.6	122	592	53	31	18	9.3	5.3	4.3	1.9
21	5.2	4.0	8.3	107	610	52	33	18	9.1	5.4	4.3	1.9
22	3.1	4.6	7.3	94	358	50	33	18	8.9	5.6	4.2	2.0
23	2.4	6.8	34	85	274	47	34	18	8.7	5.6	4.3	1.8
24	2.1	5.5	326	77	212	45	31	18	8.5	5.5	4.0	1.7
25	44	5.3	113	71	167	52	29	18	8.3	5.2	3.7	1.8
26	14	6.1	38	65	137	47	28	17	8.1	4.9	3.7	1.9
27	5.6	5.4	21	60	185	43	27	17	8.0	4.5	3.6	1.9
28	3.8	4.9	14	56	223	41	27	17	7.8	4.2	3.4	2.0
29	3.2	4.6	11	53	156	39	26	16	7.8	4.1	3.3	2.0
30	3.1	4.3	270	49	---	37	26	16	7.8	3.9	3.1	1.8
31	3.1	---	143	46	---	36	---	15	---	3.8	3.0	---
TOTAL	131.5	155.7	1074.1	6074	6033	2931	1438	687	315.2	183.2	132.7	72.2
MEAN	4.24	5.19	34.6	196	208	94.5	47.9	22.2	10.5	5.91	4.28	2.41
MAX	44	13	326	1260	1120	261	307	29	15	7.8	5.9	3.6
MIN	1.1	2.9	4.0	14	19	36	26	15	7.8	3.8	3.0	1.7
AC-FT	261	309	2130	12050	11970	5810	2850	1360	625	363	263	143
CAL YR 1979 TOTAL	9053.5			MEAN 24.8	MAX 326	MIN 1.1	AC-FT 17960					
WTR YR 1980 TOTAL	19227.6			MEAN 52.5	MAX 1260	MIN 1.1	AC-FT 38140					

## SAN LORENZO RIVER BASIN

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 mi<sup>2</sup> (15.98 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

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 except those for periods of no gage-height record, Dec. 26 to Jan. 7, Jan. 25 to Feb. 14, and Mar. 15 to Apr. 4, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--12 years, 6.67 ft<sup>3</sup>/s (0.189 m<sup>3</sup>/s), 4,830 acre-ft/yr (5.96 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 672 ft<sup>3</sup>/s (19.0 m<sup>3</sup>/s) Jan. 16, 1973, gage height, 9.10 ft (2.774 m), from rating curve extended above 230 ft<sup>3</sup>/s (6.51 m<sup>3</sup>/s) on basis of computation of flow through culvert at gage height 8.48 ft (2.585 m); minimum daily, 0.08 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Aug. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft<sup>3</sup>/s (2.0 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 24	1530	153	4.33	4.25	1.295	Feb. 19	0245
Jan. 13	1945	349	9.88	6.18	1.884		

Minimum daily discharge 0.43 ft<sup>3</sup>/s (0.012 m<sup>3</sup>/s) Oct. 5-7, 28-30, and Nov. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	.43	1.0	9.0	9.5	31	7.4	5.2	3.7	2.6	1.1	1.5
2	.47	.43	1.0	6.5	9.2	27	7.3	5.0	3.4	2.7	1.2	1.5
3	.46	.68	1.0	4.5	8.9	25	7.1	4.9	3.5	2.7	1.3	1.5
4	.46	.86	.92	4.0	8.6	24	9.0	4.8	3.7	2.7	1.3	1.4
5	.43	.62	.92	3.2	8.3	32	20	4.7	3.3	2.8	1.4	1.4
6	.43	.63	.92	2.8	8.0	29	13	4.7	3.3	2.7	1.3	1.5
7	.43	.68	.86	2.7	7.7	25	11	4.6	3.2	2.6	1.5	1.5
8	.48	.70	.81	2.5	7.4	23	10	4.7	2.9	2.3	1.5	1.6
9	.51	.70	.81	6.3	7.3	21	9.4	5.9	2.9	2.6	1.5	1.5
10	.47	.70	.83	8.1	7.0	20	8.8	5.7	2.9	2.6	1.5	1.4
11	.45	.70	.81	48	6.9	18	8.7	5.3	2.7	2.2	1.5	1.4
12	.47	.70	.81	118	6.7	17	8.8	5.2	2.5	2.1	1.5	1.3
13	.48	.70	.81	139	6.6	16	8.2	5.2	2.3	2.2	1.6	1.3
14	.49	.70	.81	108	13	15	8.1	5.1	2.4	2.1	1.7	1.3
15	.51	.70	.81	42	18	14	7.8	4.7	2.4	2.0	1.8	1.3
16	.51	.86	.81	36	127	13	7.5	4.7	2.3	1.9	1.7	1.3
17	.51	1.3	.81	32	168	13	7.1	4.5	2.3	1.9	1.7	1.2
18	.49	.96	.81	27	135	12	6.9	4.4	2.4	1.9	1.7	1.2
19	1.2	.92	1.0	23	309	12	6.8	4.3	2.7	1.9	1.7	1.2
20	1.1	.90	.98	21	146	11	7.0	4.2	2.7	1.7	1.6	1.2
21	.81	.90	1.1	19	173	12	7.4	4.2	2.7	1.7	1.5	1.2
22	.70	1.1	.97	17	87	11	7.9	4.2	2.6	1.6	1.5	1.1
23	.66	1.3	15	16	53	10	7.4	4.2	2.7	1.5	1.7	1.1
24	.65	1.1	57	15	44	9.5	6.7	3.8	2.7	1.6	1.7	1.3
25	3.2	1.2	26	14	38	10	6.2	3.8	2.7	1.5	1.6	1.2
26	.71	1.5	7.0	13	34	9.7	5.8	3.9	2.6	1.4	1.6	1.3
27	.49	1.2	4.0	12	38	9.0	5.8	3.5	2.7	1.3	1.5	1.3
28	.43	1.0	3.0	11	43	8.6	5.8	3.6	2.6	1.3	1.5	1.5
29	.43	1.0	2.7	11	40	8.1	5.7	3.7	2.3	1.2	1.5	1.4
30	.43	1.0	20	10	---	7.8	5.3	3.4	2.3	1.2	1.5	1.3
31	.47	---	12	10	---	7.5	---	3.6	---	1.1	1.5	---
TOTAL	19.79	26.17	166.30	791.6	1568.1	501.2	243.9	139.7	83.4	61.6	47.2	40.2
MEAN	.64	.87	5.36	25.5	54.1	16.2	8.13	4.51	2.78	1.99	1.52	1.34
MAX	3.2	1.5	57	139	309	32	20	5.9	3.7	2.8	1.8	1.6
MIN	.43	.43	.81	2.5	6.6	7.5	5.3	3.4	2.3	1.1	1.1	1.1
AC-FT	39	52	330	1570	3110	994	484	277	165	122	94	80
CAL YR 1979	TOTAL	1401.80	MEAN	3.84	MAX	57	MIN	.43	AC-FT	2780		
WTR YR 1980	TOTAL	3689.16	MEAN	10.1	MAX	309	MIN	.43	AC-FT	7320		

11160020 SAN LORENZO RIVER NEAR BOULDER CREEK, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.

CHEMICAL ANALYSES: Water years 1973-75, 1980.

SEDIMENT RECORDS: Water year 1976.

COOPERATION.--Chemical-quality records were furnished by California Department of Water Resources.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO
DEC 05...	1200	--	561	8.3	--	11.1	250	78	13	24	17	.7
MAR 25...	1445	10	--	8.2	10.0	11.1	--	--	--	--	--	--
JUN 24...	1500	6.0	531	8.2	15.0	10.2	240	76	13	21	16	.6
SEP 24...	1215	2.0	538	8.3	12.5	9.5	250	78	13	23	17	.6

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	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, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL. (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)
DEC 05...	1.3	17	363	.49	--	.00	.01	.00	.10	.16	.13	--
MAR 25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 24...	1.2	15	330	.45	5.35	--	.01	.00	.10	.14	.07	--
SEP 24...	1.2	14	346	.47	1.87	--	.01	.00	.10	.17	.15	0

DATE	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	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)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 05...	--	100	--	--	--	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--	--	--	--	--	1.2
JUN 24...	--	100	--	--	--	--	--	--	--	--	--
SEP 24...	0	100	0	0	0	30	0	0	.0	10	1.5

## 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 mi<sup>2</sup> (41.4 km<sup>2</sup>).

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, Jan. 8 to Feb. 20, which are fair. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 2,080 (58.9 m<sup>3</sup>/s) Feb. 19, 1980, gage height, 10.36 ft (3.158 m), from rating curve extended above 600 ft<sup>3</sup>/s (49.9 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; maximum gage height, 10.50 ft (3.200 m) Jan. 14, 1978; minimum daily, 0.13 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) Oct. 16, 17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft<sup>3</sup>/s (4.2 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	1630	573	16.2	4.66	1.420	Feb. 19	unknown	*2080	58.9	10.36	3.158
Jan. 13	unknown	1820	51.5	9.70	2.957						

Minimum daily discharge 0.35 ft<sup>3</sup>/s (0.010 m<sup>3</sup>/s) Oct. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37	.94	1.4	21	26	31	9.8	9.5	6.8	3.4	1.6	.97
2	.37	.94	1.4	13	25	31	9.8	9.5	6.7	3.9	1.6	.94
3	.37	1.4	1.5	10	24	29	9.2	8.8	6.5	4.0	1.6	.94
4	.37	1.8	1.4	8.7	23	26	12	8.2	6.7	3.4	1.5	.97
5	.37	1.3	1.4	7.9	22	75	50	8.2	6.6	3.4	1.5	1.0
6	.37	1.2	1.4	7.4	22	61	18	7.9	6.5	3.2	1.5	.94
7	.35	1.2	1.3	7.1	21	48	15	7.9	6.3	3.2	1.5	.84
8	.35	1.2	1.3	6.8	21	41	14	7.9	7.4	3.2	1.5	.92
9	.38	1.2	1.3	12	20	36	13	8.5	5.4	3.0	1.5	.97
10	.40	1.1	1.3	20	20	32	13	9.7	5.3	2.9	1.3	.98
11	.42	1.1	1.3	100	19	30	13	8.5	5.3	3.0	1.3	.98
12	.44	1.1	1.3	250	19	27	13	8.5	5.3	3.1	1.3	1.0
13	.47	1.0	1.3	420	19	25	12	8.5	5.2	3.0	1.3	1.0
14	.49	1.0	1.3	320	18	23	13	8.2	5.0	3.1	1.2	1.0
15	.53	1.0	1.3	180	50	21	12	8.2	4.9	3.0	1.2	.98
16	.59	1.3	1.3	140	200	20	13	7.9	4.7	2.6	1.3	1.0
17	.59	2.2	1.3	115	300	18	12	7.3	4.6	2.6	1.3	1.1
18	.59	1.5	1.3	100	210	18	12	7.3	4.5	2.5	1.2	1.1
19	1.2	1.3	1.8	80	530	17	12	7.3	4.5	2.5	1.3	1.1
20	1.3	1.3	2.1	70	280	16	11	6.9	4.5	2.5	1.3	1.0
21	1.7	1.2	2.5	58	140	15	12	6.8	4.4	2.5	1.4	.87
22	1.0	1.5	2.3	50	170	15	13	6.4	4.0	2.5	1.4	.78
23	.89	2.4	82	47	97	14	13	6.8	3.9	2.5	1.3	.81
24	.82	1.7	235	42	66	13	12	7.0	3.9	2.5	1.2	.76
25	13	1.7	38	39	49	14	11	7.1	3.7	2.5	1.1	.70
26	2.4	2.7	13	37	40	13	11	7.3	3.6	2.6	1.2	.69
27	1.4	2.0	7.5	34	50	12	10	7.3	3.7	2.1	1.2	.75
28	1.2	1.7	5.7	32	52	12	10	7.3	3.7	1.8	1.1	.65
29	1.0	1.5	4.7	31	37	11	10	7.3	3.4	1.8	1.1	.59
30	.94	1.5	49	28	---	11	9.8	7.3	3.4	1.8	1.1	.59
31	.94	---	34	27	---	10	---	7.2	---	1.7	1.0	---
TOTAL	35.61	42.98	501.7	2313.9	2570	765	398.6	242.5	150.4	85.8	40.9	26.92
MEAN	1.15	1.43	16.2	74.6	88.6	24.7	13.3	7.82	5.01	2.77	1.32	.90
MAX	13	2.7	235	420	530	75	50	9.7	7.4	4.0	1.6	1.1
MIN	.35	.94	1.3	6.8	18	10	9.2	6.4	3.4	1.7	1.0	.59
AC-FT	71	85	995	4590	5100	1520	791	481	298	170	81	53
CAL YR 1979 TOTAL	3631.69		MEAN 9.95	MAX 235	MIN .30	AC-FT 7200						
WTR YR 1980 TOTAL	7174.31		MEAN 19.6	MAX 530	MIN .35	AC-FT 14230						



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.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,630 ft<sup>3</sup>/s (46.2 m<sup>3</sup>/s) Jan. 14, 1978, gage-height, 8.03 ft (2.448 m), from rating curve extended above 330 ft<sup>3</sup>/s (9.35 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.35 ft<sup>3</sup>/s (0.010 m<sup>3</sup>/s) Oct. 16, 17, 1977.

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)		Gage height (ft) (m)		Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)		Gage height (ft) (m)	
Oct. 25	0915	306	8.67	2.82	0.860	Feb. 19	unknown	*1060	30.0	5.33	1.625
Dec. 19	unknown	897	25.4	4.75	1.448	Feb. 21	1400	382	10.8	3.07	0.936
Dec. 30	unknown	725	20.5	4.17	1.271	Mar. 5	0145	315	8.92	2.85	0.869

Minimum daily discharge, 0.91 ft<sup>3</sup>/s (0.026 m<sup>3</sup>/s) Oct. 7-10.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.3	2.0	27	35	51	17	12	6.1	3.5	1.8	1.0
2	1.1	1.3	2.0	17	34	50	16	11	5.9	4.6	1.8	.98
3	1.1	3.7	2.0	13	33	48	16	11	5.4	4.1	1.8	.95
4	1.1	4.4	2.0	12	32	45	22	10	6.0	3.7	1.9	.98
5	.99	2.7	1.9	10	31	122	111	10	5.6	3.4	1.8	1.0
6	.99	1.8	1.8	9.6	29	83	42	11	5.2	3.4	1.8	1.1
7	.91	1.9	1.8	8.8	29	65	34	11	4.6	3.4	1.7	1.3
8	.91	2.2	1.8	8.5	28	55	28	10	4.5	3.5	1.6	1.5
9	.91	1.8	1.8	23	28	50	27	12	4.3	3.8	1.7	1.7
10	.91	1.7	1.8	21	27	46	24	12	4.0	3.7	1.7	1.8
11	.98	1.7	1.8	209	26	42	21	11	3.9	3.5	1.7	1.8
12	1.6	1.7	1.8	500	26	39	19	11	3.9	3.2	1.7	1.8
13	1.2	1.6	1.7	580	25	36	17	11	3.7	3.2	1.7	1.8
14	1.8	1.6	1.7	400	25	34	16	11	3.8	3.1	1.7	1.8
15	1.5	1.6	1.7	240	150	33	15	11	3.7	3.2	1.8	1.7
16	1.1	3.8	1.7	180	470	31	14	10	3.7	3.2	1.9	1.8
17	1.0	5.7	1.7	145	385	29	13	9.6	3.6	3.2	1.8	1.9
18	1.0	2.6	1.7	120	320	27	12	9.0	3.6	2.9	1.5	1.9
19	9.4	1.9	2.5	100	840	25	11	9.0	3.6	2.9	1.3	1.8
20	6.1	1.7	3.0	88	360	24	14	9.0	3.5	2.9	1.3	1.7
21	3.3	1.7	3.3	77	380	25	18	8.8	3.2	2.9	1.4	1.6
22	1.9	3.5	3.0	67	159	23	17	8.8	3.2	2.8	1.4	1.4
23	1.7	4.1	60	62	98	22	17	8.4	3.4	2.4	1.4	1.4
24	1.6	2.4	320	56	77	21	15	8.6	3.5	2.5	1.2	1.3
25	53	2.8	100	53	66	24	15	8.1	3.5	2.8	1.1	1.2
26	5.2	4.8	20	50	58	21	13	7.5	3.4	3.0	1.2	1.2
27	2.6	2.7	10	47	74	20	12	7.4	3.4	3.1	1.1	1.3
28	1.9	2.4	8.0	43	74	20	12	7.2	3.2	2.2	1.1	1.2
29	1.7	2.3	6.4	41	56	18	12	6.9	3.4	2.2	1.1	1.0
30	1.5	2.1	66	39	---	18	12	6.8	3.4	2.2	1.1	1.0
31	1.3	---	50	37	---	17	---	6.6	---	2.0	1.0	---
TOTAL	111.40	75.5	684.9	3283.9	3975	1164	632	296.7	122.2	96.5	47.1	42.91
MEAN	3.59	2.52	22.1	106	137	37.5	21.1	9.57	4.07	3.11	1.52	1.43
MAX	53	5.7	320	580	840	122	111	12	6.1	4.6	1.9	1.9
MIN	.91	1.3	1.7	8.5	25	17	11	6.6	3.2	2.0	1.0	.95
AC-FT	221	150	1360	6510	7880	2310	1250	589	242	191	93	85
CAL YR 1979	TOTAL	5162.90	MEAN	14.1	MAX	320	MIN	.91	AC-FT	10240		
WTR YR 1980	TOTAL	10532.11	MEAN	28.8	MAX	840	MIN	.91	AC-FT	20890		

## 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 mi<sup>2</sup> (28.7 km<sup>2</sup>).

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. 8 to Feb. 19, and May 21 to June 10, which are fair. No known regulation; only small diversion above station for individual use.

AVERAGE DISCHARGE.--23 years, 11.1 ft<sup>3</sup>/s (0.314 m<sup>3</sup>/s), 8,040 acre-ft/yr (9.91 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft<sup>3</sup>/s (131 m<sup>3</sup>/s) Jan. 14, 1978, gage height, 8.52 ft (2.597 m), from rating curve extended above 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/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.--Peak discharges above base of 450 ft<sup>3</sup>/s (13 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	1615	524	14.8	3.92	1.195
Feb. 19	unknown	*3940	112	7.83	2.387

Minimum daily discharge, 0.43 ft<sup>3</sup>/s (0.012 m<sup>3</sup>/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	1.0	1.1	16	16	33	9.8	7.2	3.4	2.2	1.2	1.0
2	.48	1.2	1.1	10	15	35	9.5	7.2	3.4	4.0	1.1	1.0
3	.47	2.3	1.0	7.5	15	33	9.4	7.1	3.4	2.9	1.2	1.0
4	.47	2.0	.98	6.3	14	28	11	6.9	3.6	2.5	1.3	.99
5	.48	1.4	.94	5.4	14	61	53	6.9	3.4	2.4	1.3	.97
6	.45	1.2	.96	4.8	13	49	17	6.9	3.3	2.3	1.3	.99
7	.44	1.3	.96	4.3	13	39	13	6.6	3.2	2.2	1.6	1.0
8	.43	1.5	.95	4.0	12	34	12	6.4	3.0	2.2	2.1	1.1
9	.49	1.2	.96	9.8	12	30	11	6.7	2.9	2.2	2.1	1.1
10	.47	1.1	.97	9.4	12	27	11	6.5	3.0	2.1	1.5	1.0
11	.45	1.1	.93	95	11	25	10	6.3	3.2	2.0	1.1	1.0
12	.45	1.1	.89	200	11	22	9.7	6.2	3.2	2.0	1.0	1.0
13	.48	1.0	.93	250	11	21	9.5	6.2	3.2	2.0	1.0	.99
14	.61	1.0	.92	190	30	20	9.2	6.2	3.2	2.0	1.1	.99
15	.78	1.0	.95	100	70	18	9.2	5.7	3.1	1.9	1.1	.96
16	.66	1.4	.91	84	200	17	9.1	5.4	3.0	1.9	1.2	.92
17	.58	3.7	.89	70	260	16	8.9	5.3	3.0	1.9	1.2	.93
18	.60	1.5	.89	56	210	16	8.9	5.1	3.0	1.8	1.2	.93
19	2.0	1.2	1.9	46	620	15	8.8	4.6	2.9	1.8	1.2	.91
20	1.9	1.2	1.5	40	323	14	8.5	3.8	2.8	1.8	1.1	.88
21	1.3	1.1	2.0	35	281	14	8.4	3.6	2.9	1.8	1.1	.88
22	.91	1.4	1.7	31	127	13	8.5	3.6	3.1	1.7	1.1	.85
23	.82	2.3	30	29	77	12	8.3	3.5	3.0	1.7	1.1	.80
24	.77	1.4	110	26	55	12	8.2	3.5	2.9	1.7	1.1	.80
25	14	1.5	21	23	44	13	8.0	3.5	2.5	1.6	1.0	.84
26	2.4	2.0	8.4	22	38	12	8.0	3.6	2.4	1.6	1.0	.88
27	1.4	1.4	5.7	21	53	11	7.7	3.5	2.3	1.6	1.0	.89
28	1.1	1.2	4.6	20	52	11	7.7	3.5	2.3	1.4	.99	.92
29	.99	1.2	4.1	19	38	10	7.5	3.4	2.3	1.4	.98	.94
30	.93	1.1	78	18	---	10	7.4	3.3	2.2	1.3	.96	.83
31	.97	---	26	17	---	9.8	---	3.4	---	1.3	1.0	---
TOTAL	38.72	43.0	312.13	1469.5	2647	680.8	328.2	161.6	89.1	61.2	37.23	28.29
MEAN	1.25	1.43	10.1	47.4	91.3	22.0	10.9	5.21	2.97	1.97	1.20	.94
MAX	14	3.7	110	250	620	61	53	7.2	3.6	4.0	2.1	1.1
MIN	.43	1.0	.89	4.0	11	9.8	7.4	3.3	2.2	1.3	.96	.80
AC-FT	77	85	619	2910	5250	1350	651	321	177	121	74	56
CAL YR 1979	TOTAL	2770.48	MEAN	7.59	MAX	196	MIN	.43	AC-FT	5500		
WTR YR 1980	TOTAL	5896.77	MEAN	16.1	MAX	620	MIN	.43	AC-FT	11700		

## 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 mi<sup>2</sup> (275 km<sup>2</sup>).

## 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. Flow regulated by Loch Lomond Reservoir since 1961, capacity, 8,400 acreft (10.4 hm<sup>3</sup>). Many small diversions above station for domestic supply.

AVERAGE DISCHARGE.--44 years, 133 ft<sup>3</sup>/s (3.767 m<sup>3</sup>/s), 96,360 acre-ft/yr (119 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,400 ft<sup>3</sup>/s (861 m<sup>3</sup>/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 ft<sup>3</sup>/s (312 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum, 0.8 ft<sup>3</sup>/s (0.023 m<sup>3</sup>/s), regulated, June 25, 1939; minimum daily, 5.6 ft<sup>3</sup>/s (0.16 m<sup>3</sup>/s) July 27, 28, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft<sup>3</sup>/s (40 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 24	1645	4020 114	11.52 3.511	Feb. 19	0715	*10500 297	20.82 6.346
Jan. 13	2115	6860 194	15.68 4.779	Feb. 21	0015	3690 105	10.99 3.350
Feb. 16	1415	4990 141	12.98 3.956				

Minimum daily discharge, 13 ft<sup>3</sup>/s (0.37 m<sup>3</sup>/s) Oct. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	18	22	217	149	373	115	83	58	46	28	21
2	14	18	21	147	143	377	112	76	58	41	27	26
3	14	26	21	107	138	359	109	76	56	36	27	22
4	14	32	20	84	133	313	134	76	61	36	26	21
5	14	25	20	69	129	681	569	74	57	36	26	21
6	14	22	20	62	123	561	236	72	53	35	26	20
7	16	22	20	56	119	439	181	72	51	35	26	22
8	14	24	20	53	116	381	158	71	48	35	25	23
9	14	22	20	129	112	341	147	85	48	35	24	23
10	14	21	20	127	110	313	138	89	46	35	23	23
11	13	21	19	1260	107	289	130	75	46	36	23	23
12	13	20	19	3120	106	266	122	73	46	39	23	22
13	15	20	19	3480	105	250	117	72	45	40	24	22
14	16	20	19	2400	197	235	113	72	44	40	24	28
15	16	20	19	985	394	223	109	70	46	40	25	23
16	15	25	19	859	2370	209	106	69	48	38	26	23
17	15	50	19	742	2830	200	115	67	47	37	25	23
18	15	30	19	571	2260	192	104	63	47	36	26	23
19	58	24	30	463	6390	181	101	65	46	36	25	22
20	42	19	33	376	2620	171	100	63	44	35	24	23
21	32	19	33	328	2780	173	111	63	44	35	24	21
22	22	27	27	290	1410	165	108	62	42	34	23	21
23	19	40	241	259	903	156	113	61	43	34	24	20
24	20	28	1880	237	671	148	101	61	40	33	24	20
25	210	29	458	221	524	162	97	61	40	33	22	19
26	48	42	157	205	440	148	93	60	40	32	22	19
27	26	30	99	193	503	139	89	61	39	33	22	20
28	22	25	65	183	586	132	87	60	37	32	21	20
29	20	23	55	172	422	126	87	59	36	30	20	19
30	19	22	599	161	---	122	85	55	35	31	20	19
31	19	---	324	154	---	118	---	58	---	30	21	---
TOTAL	818	764	4357	17710	26890	7943	3987	2124	1391	1104	746	652
MEAN	26.4	25.5	141	571	927	256	133	68.5	46.4	35.6	24.1	21.7
MAX	210	50	1880	3480	6390	681	569	89	61	46	28	28
MIN	13	18	19	53	105	118	85	55	35	30	20	19
AC-FT	1620	1520	8640	35130	53340	15750	7910	4210	2760	2190	1480	1290
CAL YR 1979 TOTAL	34725			MEAN 95.1	MAX 1880	MIN 12	AC-FT 68880					
WTR YR 1980 TOTAL	68486			MEAN 187	MAX 6390	MIN 13	AC-FT 135800					

## SAN LORENZO RIVER BASIN

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, 1980.

WATER TEMPERATURES: Water years 1966 to current year.

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.

REMARKS.--Zero bedload discharge observed at flows less than 87 ft<sup>3</sup>/s (2.46 m<sup>3</sup>/s).

COOPERATION.--Chemical-quality records were furnished by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,170 mg/L Jan. 16, 1973; minimum daily mean, 1 mg/L on several days in 1972-74, 1975, 80.

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, 80.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 5,910 mg/L Feb. 19; minimum daily mean, 1 mg/L July 30, Aug. 13-22.

SEDIMENT DISCHARGE: Maximum daily, 118,000 tons (107,000 metric tons) Feb. 19; minimum daily, 0.06 ton (0.05 metric ton) Aug. 13, 14, 20-22.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO
DEC 05...	1310	--	433	7.6	--	11.3	160	47	10	27	27	.9
MAR 25...	1330	175	--	7.7	10.0	11.2	--	--	--	--	--	--
JUN 24...	1330	15	392	7.8	18.0	9.3	150	44	9.0	22	24	.8
SEP 24...	1000	10	385	7.9	14.5	9.7	140	43	8.0	24	27	.9
DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	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, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL. TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL. TOTAL (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)
DEC 05...	2.0	32	272	.37	--	.34	.33	.01	.20	.19	.12	--
MAR 25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 24...	1.9	21	243	.33	9.84	--	.30	.02	.10	.15	.10	--
SEP 24...	1.9	25	242	.33	6.53	--	.45	.01	.10	.20	.16	0
DATE	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	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)	SEL- NIUM, DIS- SOLVED (UG/L AS SE)	CARBON, ORGANIC TOTAL (MG/L AS C)	
DEC 05...	--	100	--	--	--	--	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--	--	--	--	--	--	1.5
JUN 24...	--	100	--	--	--	--	--	--	--	--	--	--
SEP 24...	0	0	0	0	0	60	0	20	.0	10	1.9	

## 111605000 SAN LORENZO RIVER AT BIG TREES, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	14.5	---	---	---
2	---	---	10.0	---	---	---	---	---	---	17.0	---	---
3	17.0	---	---	11.0	---	12.0	---	---	---	---	---	17.0
4	---	13.0	---	---	12.0	---	---	14.0	15.0	---	18.0	---
5	---	---	9.5	---	---	11.5	12.0	---	15.0	17.5	---	17.5
6	---	---	---	10.5	---	---	---	---	---	---	---	---
7	---	---	9.5	---	---	---	---	13.5	---	---	18.0	---
8	15.5	12.5	---	10.5	11.0	---	---	---	17.0	18.0	---	17.0
9	---	---	10.0	---	---	---	12.5	---	---	---	---	---
10	14.5	---	---	---	---	11.5	12.5	13.0	---	---	19.0	---
11	---	---	---	12.5	---	---	---	---	---	18.0	---	16.5
12	---	---	8.0	13.0	9.0	---	---	---	17.0	---	---	16.5
13	---	11.0	---	13.5	---	---	13.5	13.5	---	---	20.0	---
14	---	---	---	13.0	---	---	---	---	---	18.0	19.0	15.0
15	---	---	---	12.0	11.5	---	---	---	19.0	---	---	---
16	16.0	---	7.5	13.0	12.0	11.0	13.0	---	---	---	18.5	---
17	---	12.0	---	12.0	12.5	---	---	---	---	17.5	---	15.5
18	---	---	---	---	12.5	---	---	---	18.0	---	---	---
19	15.5	---	---	---	12.0	---	---	17.0	---	---	---	---
20	15.0	---	9.5	10.0	11.5	---	13.5	16.5	---	18.0	18.5	16.5
21	---	---	8.0	---	12.5	---	---	---	18.5	---	---	---
22	---	---	---	---	12.0	11.5	---	---	---	---	---	---
23	---	10.0	7.5	---	---	---	---	---	---	---	---	---
24	---	---	9.5	10.5	---	---	13.5	---	---	18.5	---	16.0
25	16.0	10.0	---	---	13.5	---	---	---	---	---	17.0	---
26	---	---	---	---	---	---	---	---	18.0	---	---	---
27	---	---	8.0	10.0	---	12.0	14.0	---	---	20.0	---	---
28	13.0	9.0	---	---	---	---	---	---	---	---	17.5	17.5
29	---	---	7.0	---	12.5	---	---	---	17.5	---	---	---
30	---	9.5	10.0	11.0	---	---	13.5	---	---	19.0	---	---
31	13.5	---	12.0	---	---	12.0	---	---	---	---	17.0	---

## SAN LORENZO RIVER BASIN

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

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	5	.20	18	15	.73	22	4	.24
2	14	6	.23	18	14	.68	21	3	.17
3	14	6	.23	26	22	1.5	21	3	.17
4	14	6	.23	32	19	1.6	20	3	.16
5	14	5	.19	25	11	.74	20	4	.22
6	14	5	.19	22	12	.71	20	5	.27
7	16	6	.26	22	14	.83	20	6	.32
8	14	4	.15	24	14	.91	20	5	.27
9	14	4	.15	22	13	.77	20	4	.22
10	14	4	.15	21	12	.68	20	4	.22
11	13	4	.14	21	10	.57	19	4	.21
12	13	4	.14	20	9	.49	19	5	.26
13	15	4	.16	20	7	.38	19	5	.26
14	16	5	.22	20	7	.38	19	5	.26
15	16	4	.17	20	7	.38	19	5	.26
16	15	3	.12	25	9	.61	19	5	.26
17	15	3	.12	50	18	2.5	19	5	.26
18	15	5	.20	30	9	.73	19	5	.26
19	58	60	10	24	14	.91	30	10	.81
20	42	33	4.2	19	9	.46	33	10	.89
21	32	16	1.4	19	5	.26	33	11	.98
22	22	10	.59	27	8	.71	27	7	.51
23	19	6	.31	40	10	1.1	241	238	879
24	20	5	.27	28	5	.38	1880	1620	10200
25	210	549	533	29	5	.39	458	651	1020
26	48	241	36	42	10	1.1	157	50	21
27	26	102	7.2	30	5	.41	99	6	1.6
28	22	82	4.9	25	2	.14	65	5	.88
29	20	61	3.3	23	2	.12	55	8	1.2
30	19	32	1.6	22	5	.30	599	534	1230
31	19	19	.97	---	---	---	324	100	87
TOTAL	818	---	606.99	764	---	21.47	4357	---	13448.16
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	217	25	15	149	3	1.2	373	20	20
2	147	19	7.5	143	3	1.2	377	60	61
3	107	14	4.0	138	3	1.1	359	50	48
4	84	11	2.5	133	4	1.4	313	20	17
5	69	8	1.5	129	4	1.4	681	338	702
6	62	7	1.2	123	3	1.0	561	80	121
7	56	6	.91	119	3	.96	439	35	41
8	53	7	1.0	116	2	.63	381	15	15
9	129	106	43	112	2	.60	341	10	9.2
10	127	65	22	110	2	.59	313	9	7.6
11	1260	952	6440	107	3	.87	289	9	7.0
12	3120	2570	24400	106	5	1.4	266	9	6.5
13	3480	3280	45300	105	5	1.4	250	9	6.1
14	2400	3760	28500	197	43	26	235	8	5.1
15	985	1860	4950	394	735	1110	223	8	4.8
16	859	1390	3220	2370	2350	23100	209	8	4.5
17	742	1290	2580	2830	3420	34100	200	8	4.3
18	571	990	1530	2260	3360	22600	192	8	4.1
19	463	300	375	6390	5910	118000	181	7	3.4
20	376	38	39	2620	3480	27400	171	7	3.2
21	328	10	8.9	2780	5590	43600	173	7	3.3
22	290	8	6.3	1410	2580	10200	165	7	3.1
23	259	7	4.9	903	1440	3510	156	7	2.9
24	237	4	2.6	671	990	1790	148	7	2.8
25	221	4	2.4	524	790	1120	162	20	8.7
26	205	4	2.2	440	700	832	148	15	6.0
27	193	4	2.1	503	756	1100	139	13	4.9
28	183	4	2.0	586	443	798	132	11	3.9
29	172	3	1.4	422	70	80	126	10	3.4
30	161	3	1.3	---	---	---	122	8	2.6
31	154	3	1.2	---	---	---	118	7	2.2
TOTAL	17710	---	117467.9	26890	---	289379.8	7943	---	1134.6

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

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

APRIL				MAY				JUNE		
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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	115	7	2.2	83	8	1.8	58	6	.94	
2	112	6	1.8	76	8	1.6	58	6	.94	
3	109	6	1.8	76	8	1.6	56	5	.76	
4	134	32	12	76	8	1.6	61	12	2.0	
5	569	253	478	74	8	1.6	57	6	.92	
6	236	45	29	72	8	1.6	53	6	.86	
7	181	15	7.3	72	9	1.7	51	5	.69	
8	158	8	3.4	71	9	1.7	48	21	2.7	
9	147	4	1.6	85	18	4.8	48	10	1.3	
10	138	9	3.4	89	21	5.0	46	9	1.1	
11	130	7	2.5	75	16	3.2	46	9	1.1	
12	122	6	2.0	73	14	2.8	46	8	.99	
13	117	5	1.6	72	13	2.5	45	8	.97	
14	113	5	1.5	72	12	2.3	44	8	.95	
15	109	5	1.5	70	11	2.1	46	10	1.2	
16	106	17	4.9	69	11	2.0	48	8	1.0	
17	115	28	9.5	67	10	1.8	47	5	.63	
18	104	34	9.5	63	10	1.7	47	5	.63	
19	101	27	7.4	65	10	1.8	46	5	.62	
20	100	23	6.2	63	14	2.4	44	5	.59	
21	111	19	5.7	63	10	1.7	44	5	.59	
22	108	15	4.4	62	8	1.3	42	5	.57	
23	113	12	3.7	61	8	1.3	43	4	.46	
24	101	9	2.5	61	7	1.2	40	4	.43	
25	97	9	2.4	61	7	1.2	40	3	.32	
26	93	9	2.3	60	6	.97	40	3	.32	
27	89	12	2.9	61	6	.99	39	3	.32	
28	87	9	2.1	60	6	.97	37	3	.30	
29	87	9	2.1	59	6	.96	36	4	.39	
30	85	8	1.8	55	6	.89	35	4	.38	
31	---	---	---	58	6	.94	---	---	---	
TOTAL	3987	---	617.0	2124	---	58.02	1391	---	24.97	
JULY				AUGUST				SEPTEMBER		
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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	46	4	.50	28	2	.15	21	3	.17	
2	41	12	1.3	27	2	.15	26	4	.28	
3	36	6	.58	27	3	.22	22	4	.24	
4	36	4	.39	26	3	.21	21	4	.23	
5	36	3	.29	26	3	.21	21	4	.23	
6	35	3	.28	26	4	.28	20	4	.22	
7	35	3	.28	26	5	.35	22	4	.24	
8	35	4	.38	25	4	.27	23	5	.31	
9	35	4	.38	24	3	.19	23	4	.25	
10	35	4	.38	23	2	.12	23	4	.25	
11	36	4	.39	23	2	.12	23	3	.19	
12	39	4	.42	23	2	.12	22	6	.36	
13	40	4	.43	24	1	.06	22	4	.24	
14	40	5	.54	24	1	.06	28	2	.15	
15	40	4	.43	25	1	.07	23	2	.12	
16	38	4	.41	26	1	.07	23	2	.12	
17	37	4	.40	25	1	.07	23	3	.19	
18	36	3	.29	26	1	.07	23	2	.12	
19	36	3	.29	25	1	.07	22	2	.12	
20	35	2	.19	24	1	.06	23	2	.12	
21	35	2	.19	24	1	.06	21	2	.11	
22	34	2	.18	23	1	.06	21	2	.11	
23	34	2	.18	24	2	.13	20	4	.22	
24	33	2	.18	24	2	.13	20	3	.16	
25	33	3	.27	22	3	.18	19	3	.15	
26	32	3	.27	22	3	.18	19	3	.15	
27	33	5	.43	22	3	.18	20	4	.22	
28	32	3	.27	21	3	.17	20	4	.22	
29	30	2	.17	20	3	.16	19	4	.21	
30	31	1	.08	20	3	.16	19	4	.21	
31	30	2	.17	21	3	.17	---	---	---	
TOTAL	1104	---	10.94	746	---	4.50	652	---	5.91	
YEAR	68486.0		422780.26							

## SAN LORENZO RIVER BASIN

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

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1979	818.00	606.99	6	613
NOVEMBER ...	764.00	21.47	0	21
DECEMBER ...	4357.00	13448.16	252	13700
JANUARY 1980	17710.00	117467.90	1320	119000
FEBRUARY ...	26890.00	289379.80	2350	292000
MARCH .....	7943.00	1134.60	151	1290
APRIL .....	3987.00	617.00	39	656
MAY .....	2124.00	58.02	2	60
JUNE .....	1391.00	24.97	0	25
JULY .....	1104.00	10.94	0	11
AUGUST .....	746.00	4.50	0	4
SEPTEMBER ..	652.00	5.91	0	6
TOTAL .....	68486.00	422780.26	4120	427386



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

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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
OCT 25...	1020	15.5	672	873	1580	35	49	62
JAN 11...	1545	12.5	996	429	1150	17	23	30
13...	1600	13.5	4560	4330	53300	--	17	22
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 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT 25...	76	88	96	98	99	100	--	--
JAN 11...	38	47	56	65	83	99	100	--
13...	29	39	52	62	77	92	99	100

## SAN LORENZO RIVER BASIN

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

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JUL							
01...	1245	1	46	--	--	1	55
01...	1250	1	46	--	--	3	42
01...	1255	1	46	--	--	1	18
01...	1300	1	46	--	--	2	30
01...	1305	1	46	1	4	6	19
01...	1310	1	46	--	1	4	22
01...	1315	1	46	--	1	3	13

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
JUL							
01...	99	100	--	--	--	--	--
01...	83	93	96	97	99	100	--
01...	61	92	99	100	--	--	--
01...	72	95	99	100	--	--	--
01...	30	38	45	54	72	91	100
01...	50	72	83	89	95	100	--
01...	31	44	56	69	84	95	100

## 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 mi<sup>2</sup> (15.72 km<sup>2</sup>).

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 except those for periods of no gage-height record, Oct. 9 to Nov. 9, Dec. 1 to Jan. 11, and Feb. 15 to Feb. 25, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--11 years, 8.04 ft<sup>3</sup>/s (0.228 m<sup>3</sup>/s), 5,820 acre-ft/yr (7.18 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 937 ft<sup>3</sup>/s (26.5 m<sup>3</sup>/s) Apr. 1, 1974, gage height, 5.83 ft (1.777 m), from rating curve extended above 210 ft<sup>3</sup>/s (5.95 m<sup>3</sup>/s); no flow Sept. 9-18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 694 ft<sup>3</sup>/s (19.7 m<sup>3</sup>/s) Jan. 12 (0045 hrs), gage height, 5.52 ft (1.682 m), other peaks above base of 100 ft<sup>3</sup>/s (2.8 m<sup>3</sup>/s) not determined; minimum daily, 1.1 ft<sup>3</sup>/s (0.031 m<sup>3</sup>/s) Oct. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.5	1.7	11	12	28	13	10	5.8	3.8	3.1	2.6
2	1.3	1.8	1.7	8.8	11	28	12	9.7	5.8	4.8	3.0	2.6
3	1.3	2.1	1.7	5.6	11	26	12	9.2	5.5	4.8	3.0	2.6
4	1.3	2.7	1.6	4.5	11	24	15	8.9	6.3	4.5	3.0	2.6
5	1.3	2.1	1.6	4.0	10	47	41	8.7	5.8	4.3	3.1	2.6
6	1.2	1.9	1.6	3.6	10	43	23	8.6	5.5	4.2	3.1	2.5
7	1.2	1.9	1.6	3.2	9.8	36	19	8.4	5.3	4.1	3.1	2.5
8	1.3	2.0	1.6	3.1	9.6	31	17	8.2	5.4	4.2	3.0	2.6
9	1.3	1.9	1.6	7.1	9.3	28	16	9.1	5.3	4.4	3.0	2.6
10	1.2	1.8	1.7	6.8	9.2	25	15	9.1	5.2	4.5	2.9	2.6
11	1.1	1.7	1.6	94	9.1	24	14	8.6	5.0	4.2	2.8	2.6
12	1.1	1.7	1.5	212	8.9	22	14	8.4	5.0	4.1	2.7	2.6
13	1.2	1.7	1.5	105	8.8	21	13	8.3	4.9	4.1	2.7	2.4
14	1.4	1.6	1.5	67	12	20	13	8.1	4.8	4.1	2.8	2.4
15	1.4	1.6	1.5	40	25	19	13	7.8	4.7	4.0	2.9	2.3
16	1.3	2.3	1.5	35	240	18	12	7.2	4.6	3.9	2.9	2.1
17	1.3	3.2	1.6	33	190	17	12	6.8	4.6	3.8	2.9	2.1
18	1.3	2.0	1.8	26	160	17	12	6.7	4.5	3.9	2.9	2.1
19	4.8	1.8	2.5	22	430	16	12	6.5	4.6	3.9	2.9	2.0
20	3.4	2.0	2.7	19	170	16	12	6.2	4.6	3.9	3.0	2.0
21	2.4	2.0	2.6	18	190	16	13	6.1	4.4	3.9	2.8	2.0
22	1.9	2.8	2.3	16	100	15	13	6.0	4.3	3.7	2.7	1.9
23	1.7	2.2	10	15	80	15	12	5.8	4.4	3.6	2.7	1.8
24	3.0	2.1	120	15	45	14	12	5.7	4.4	3.6	2.7	1.8
25	14	2.0	35	15	36	15	11	5.8	4.4	3.5	2.9	1.6
26	4.0	1.9	88	14	30	14	11	5.9	4.2	3.4	2.9	1.6
27	2.1	1.8	5.0	14	33	14	11	5.9	4.0	3.3	2.8	1.7
28	1.9	1.7	4.0	13	39	14	11	5.9	4.0	3.3	2.7	1.6
29	1.8	1.6	3.5	13	31	13	10	5.7	3.9	3.1	2.7	1.6
30	1.7	1.6	40	12	---	13	10	5.7	3.9	3.1	2.7	1.5
31	1.6	---	21	12	---	13	---	5.7	---	3.1	2.7	---
TOTAL	67.1	59.0	365.5	867.7	1940.7	662	424	228.7	145.1	121.1	89.1	65.5
MEAN	2.16	1.97	11.8	28.0	66.9	21.4	14.1	7.38	4.84	3.91	2.87	2.18
MAX	14	3.2	120	212	430	47	41	10	6.3	4.8	3.1	2.6
MIN	1.1	1.5	1.5	3.1	8.8	13	10	5.7	3.9	3.1	2.7	1.5
AC-FT	133	117	725	1720	3850	1310	841	454	288	240	177	130

CAL YR 1979 TOTAL 2160.70 MEAN 5.92 MAX 120 MIN .90 AC-FT 4290  
WTR YR 1980 TOTAL 5035.50 MEAN 13.8 MAX 430 MIN 1.1 AC-FT 9990

## PESCADERO CREEK BASIN

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 mi<sup>2</sup> (118.9 km<sup>2</sup>).

## 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.--29 years, 40.3 ft<sup>3</sup>/s (1.141 m<sup>3</sup>/s), 29,200 acre-ft/yr (36.0 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,420 ft<sup>3</sup>/s (267 m<sup>3</sup>/s) Dec. 23, 1955, gage height, 21.27 ft (6.483 m), from rating curve extended above 2,700 ft<sup>3</sup>/s (76.5 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft<sup>3</sup>/s (20 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 24	1845	904 25.6	6.03 1.838	Feb. 19	0600	*2940 83.3	10.39 3.167
Jan. 13	2215	2860 81.0	10.25 3.124				

Minimum daily discharge, 1.4 ft<sup>3</sup>/s (0.040 m<sup>3</sup>/s) Oct. 1, 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	3.9	4.4	70	34	138	56	30	21	7.3	4.2	6.1
2	1.7	3.5	4.3	49	33	136	53	28	23	8.0	3.7	6.1
3	1.4	5.3	4.2	40	31	136	50	24	23	9.1	3.7	5.1
4	1.4	12	4.0	37	30	130	49	24	24	8.1	3.9	5.0
5	1.5	7.5	4.0	33	29	243	182	26	27	7.5	4.1	5.0
6	1.6	5.5	4.1	31	28	266	105	24	14	7.3	4.2	4.8
7	1.7	6.2	4.1	29	27	202	77	27	13	6.8	4.3	4.9
8	1.7	5.2	4.0	28	27	170	66	26	12	6.5	4.2	5.4
9	1.8	4.7	3.8	27	27	149	57	22	11	6.5	4.0	5.7
10	1.7	4.6	3.7	48	27	141	55	30	11	6.7	4.1	5.6
11	1.8	4.5	3.9	250	27	131	52	26	10	6.5	3.7	4.4
12	1.8	4.2	4.0	717	27	120	49	30	10	6.2	3.8	3.4
13	1.8	4.2	3.9	854	27	114	46	30	10	6.5	3.9	3.5
14	1.9	4.0	3.8	837	29	109	46	24	10	6.8	4.3	3.3
15	2.1	4.0	3.8	284	51	108	45	26	10	6.5	4.6	3.4
16	2.3	5.6	3.8	204	495	108	43	29	9.9	6.2	4.4	3.1
17	2.4	16	3.9	184	777	96	41	22	9.6	5.9	4.2	3.1
18	2.2	9.4	3.8	140	620	87	40	19	9.7	5.5	4.2	3.0
19	5.0	5.9	5.3	115	1960	87	37	21	9.7	5.8	3.6	3.3
20	14	4.5	6.9	98	790	86	37	21	9.8	5.7	4.0	3.3
21	7.7	4.0	6.3	86	1020	87	39	16	9.6	5.5	4.0	3.4
22	3.8	4.5	6.9	75	548	86	39	17	9.1	5.6	4.1	3.4
23	2.9	7.8	10	66	352	85	45	20	8.7	5.2	4.1	3.3
24	2.7	7.1	402	58	256	83	39	21	8.6	5.2	4.3	3.4
25	34	6.1	230	53	203	86	34	24	8.7	5.3	4.6	3.3
26	18	8.9	86	48	168	76	32	26	8.5	4.9	4.3	3.2
27	6.7	9.0	47	45	164	68	30	29	8.3	4.7	4.3	3.1
28	4.7	6.3	33	42	210	71	30	31	7.8	4.6	4.4	3.3
29	4.0	5.2	26	40	157	69	29	35	7.5	4.5	4.5	3.5
30	3.6	4.7	61	37	---	65	30	24	7.5	4.7	4.4	3.5
31	3.8	---	81	36	---	59	---	19	---	4.7	5.3	---
TOTAL	143.1	184.3	1072.9	4661	8174	3592	1533	771	362.0	190.3	129.4	120.9
MEAN	4.62	6.14	34.6	150	282	116	51.1	24.9	12.1	6.14	4.17	4.03
MAX	34	16	402	854	1960	266	182	35	27	9.1	5.3	6.1
MIN	1.4	3.5	3.7	27	27	59	29	16	7.5	4.5	3.6	3.0
AC-FT	284	366	2130	9250	16210	7120	3040	1530	718	377	257	240
CAL YR 1979 TOTAL	9482.2			MEAN 26.0	MAX 604	MIN 1.4	AC-FT 18410					
WTR YR 1980 TOTAL	20933.9			MEAN 57.2	MAX 1960	MIN 1.4	AC-FT 41520					

## PESCADERO CREEK BASIN

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11162500 PESCADERO CREEK NEAR PESCADERO, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to September 1980 (discontinued).

CHEMICAL ANALYSES: Water year 1977.

WATER TEMPERATURES: Water years 1965 to September 1980 (discontinued).

SEDIMENT RECORDS: Water years 1971, 1973, December 1979 to September 1980 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: April 1965 to February 1979.

SEDIMENT RECORDS: December 1979 to September 1980.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,980 mg/L Feb. 19; minimum daily mean, 1 mg/L May 6.

SEDIMENT DISCHARGE: Maximum daily, 18,100 tons (16,400 metric tons) Feb. 19; minimum daily, 0.02 ton (0.02 metric ton) many days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	---	10.0	---	---	---	---	---	---	---
2			---	---	11.0	10.0	---	---	---	---	---	---
3			---	---	10.5	---	---	---	10.5	10.0	---	---
4			---	---	11.0	---	---	15.0	---	---	---	---
5			---	---	12.0	11.0	---	---	10.5	---	---	---
6			---	---	10.0	10.0	---	---	10.5	---	---	---
7			---	---	10.0	10.0	11.0	---	10.5	---	---	---
8			---	---	---	10.0	10.5	---	---	---	---	---
9			---	10.5	9.5	11.0	---	---	11.0	---	---	---
10			---	---	---	11.0	12.0	12.5	---	18.0	---	---
11			---	14.5	9.0	11.5	13.0	---	14.5	---	---	16.5
12			---	---	8.0	10.0	14.5	---	---	---	---	---
13			---	14.0	9.0	11.0	---	11.0	---	---	15.5	---
14			---	15.0	---	11.0	---	10.0	---	---	---	---
15			---	10.5	---	11.0	---	---	---	---	---	---
16			---	10.5	---	10.0	---	---	---	---	---	---
17			---	10.0	---	10.0	---	13.5	10.5	---	---	---
18			---	---	---	---	13.0	14.5	---	---	---	---
19			---	9.0	12.0	11.0	---	15.0	---	---	---	---
20			---	8.0	12.0	---	13.0	---	---	17.0	---	---
21			---	9.5	14.0	10.0	---	14.5	---	---	---	---
22			---	---	12.0	11.0	---	---	---	17.0	---	---
23			---	9.0	---	---	---	14.5	---	---	---	---
24			10.5	10.0	12.0	11.0	---	10.0	---	---	---	---
25			11.0	10.0	13.0	---	12.0	---	---	---	---	---
26			---	---	14.0	---	12.5	10.0	---	---	---	---
27			8.0	---	---	11.0	---	---	---	---	---	---
28			---	7.0	12.0	11.0	---	10.5	---	---	---	---
29			11.0	7.0	11.0	---	---	---	---	---	---	---
30			---	---	---	---	---	---	10.0	---	---	---
31			13.0	8.0	---	---	---	---	---	---	---	---
MEAN			10.5	10.0	11.0	10.5	12.5	12.5	11.0	15.5	15.5	16.5
WTR YR 1980	MEAN	11.5		MAX	18.0		MIN	7.0				

## PESCADERO CREEK BASIN

11162500 PESCADERO CREEK NEAR PESCADERO, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1						4.4	4	.05	
2						4.3	4	.05	
3						4.2	3	.03	
4						4.0	3	.03	
5						4.0	3	.03	
6						4.1	3	.03	
7						4.1	3	.03	
8						4.0	3	.03	
9						3.8	2	.02	
10						3.7	2	.02	
11						3.9	2	.02	
12						4.0	2	.02	
13						3.9	2	.02	
14						3.8	2	.02	
15						3.8	2	.02	
16						3.8	2	.02	
17						3.9	2	.02	
18						3.8	2	.02	
19						5.3	4	.06	
20						6.9	5	.09	
21						6.3	5	.09	
22						6.9	5	.09	
23						10	17	1.1	
24						402	712	1030	
25						230	355	249	
26						86	175	41	
27						47	85	11	
28						33	26	2.3	
29						26	17	1.2	
30						61	53	12	
31						81	57	12	
TOTAL						1072.9	---	1360.41	
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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	70	44	8.3	34	14	1.3	138	40	15
2	49	34	4.5	33	6	.53	136	34	12
3	40	25	2.7	31	11	.92	136	30	11
4	37	20	2.0	30	18	1.5	130	22	7.7
5	33	17	1.5	29	17	1.3	243	240	169
6	31	14	1.2	28	11	.83	266	136	98
7	29	10	.78	27	11	.80	202	71	39
8	28	9	.68	27	10	.73	170	42	19
9	27	12	.87	27	8	.58	149	31	12
10	48	18	2.3	27	8	.58	141	24	9.1
11	250	328	301	27	9	.66	131	20	7.1
12	717	969	1980	27	9	.66	120	18	5.8
13	854	1220	6390	27	10	.73	114	14	4.3
14	837	1740	5670	29	11	.86	109	12	3.5
15	284	290	222	51	18	3.0	108	14	4.1
16	204	125	69	495	502	1370	108	13	3.8
17	184	86	43	777	851	2000	96	10	2.6
18	140	71	27	620	529	1030	87	9	2.1
19	115	46	14	1960	2980	18100	87	12	2.8
20	98	40	11	790	1150	2620	86	10	2.3
21	86	28	6.5	1020	1520	4360	87	7	1.6
22	75	14	2.8	548	560	829	86	5	1.2
23	66	13	2.3	352	260	247	85	5	1.1
24	58	14	2.2	256	138	95	83	6	1.3
25	53	11	1.6	203	93	51	86	6	1.4
26	48	8	1.0	168	55	25	76	5	1.0
27	45	7	.85	164	56	28	68	4	.73
28	42	8	.91	210	116	69	71	4	.77
29	40	6	.65	157	57	24	69	4	.75
30	37	9	.90	---	---	---	65	4	.70
31	36	16	1.6	---	---	---	59	4	.64
TOTAL	4661	---	14773.14	8174	---	30862.98	3592	---	441.39

## PESCADERO CREEK BASIN

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11162500 PESCADERO CREEK NEAR PESCADERO, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	56	3	.45	30	3	.24	21	5	.28
2	53	3	.43	28	3	.23	23	5	.31
3	50	3	.41	24	2	.13	23	6	.37
4	49	3	.40	24	2	.13	24	6	.39
5	182	93	64	26	2	.14	27	7	.51
6	105	30	8.5	24	1	.06	14	4	.15
7	77	18	3.7	27	2	.15	13	2	.07
8	66	13	2.3	26	3	.21	12	3	.10
9	57	11	1.7	22	3	.18	11	4	.12
10	55	10	1.5	30	4	.32	11	4	.12
11	52	6	.84	26	4	.28	10	4	.11
12	49	5	.66	30	3	.24	10	4	.11
13	46	5	.62	30	3	.24	10	4	.11
14	46	4	.50	24	6	.39	10	4	.11
15	45	4	.49	26	5	.35	10	3	.08
16	43	4	.46	29	4	.31	9.9	3	.08
17	41	3	.33	22	4	.24	9.6	3	.08
18	40	3	.32	19	3	.15	9.7	3	.08
19	37	3	.30	21	8	.45	9.7	3	.08
20	37	3	.30	21	5	.28	9.8	3	.08
21	39	3	.32	16	2	.09	9.6	3	.08
22	39	3	.32	17	3	.14	9.1	3	.07
23	45	4	.49	20	4	.22	8.7	3	.07
24	39	3	.32	21	5	.28	8.6	3	.07
25	34	3	.28	24	5	.32	8.7	3	.07
26	32	6	.52	26	3	.21	8.5	3	.07
27	30	5	.41	29	5	.39	8.3	3	.07
28	30	4	.32	31	7	.59	7.8	3	.06
29	29	4	.31	35	6	.57	7.5	2	.04
30	30	3	.24	24	4	.26	7.5	2	.04
31	---	---	---	19	4	.21	---	---	---
TOTAL	1533	---	91.74	771	---	8.00	362.0	---	3.98
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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	7.3	2	.04	4.2	2	.02	6.1	3	.05
2	8.0	2	.04	3.7	2	.02	6.1	3	.05
3	9.1	3	.07	3.7	2	.02	5.1	3	.04
4	8.1	3	.07	3.9	2	.02	5.0	2	.03
5	7.5	3	.06	4.1	2	.02	5.0	2	.03
6	7.3	3	.06	4.2	2	.02	4.8	2	.03
7	6.8	5	.09	4.3	2	.02	4.9	3	.04
8	6.5	4	.07	4.2	2	.02	5.4	3	.04
9	6.5	4	.07	4.0	2	.02	5.7	4	.06
10	6.7	5	.09	4.1	2	.02	5.6	6	.09
11	6.5	4	.07	3.7	2	.02	4.4	9	.11
12	6.2	4	.07	3.8	3	.03	3.4	7	.06
13	6.5	3	.05	3.9	4	.04	3.5	4	.04
14	6.8	3	.06	4.3	4	.05	3.3	4	.04
15	6.5	3	.05	4.6	3	.04	3.4	3	.03
16	6.2	3	.05	4.4	3	.04	3.1	3	.03
17	5.9	2	.03	4.2	3	.03	3.1	3	.03
18	5.5	2	.03	4.2	3	.03	3.0	2	.02
19	5.8	2	.03	3.6	3	.03	3.3	2	.02
20	5.7	2	.03	4.0	2	.02	3.3	2	.02
21	5.5	2	.03	4.0	2	.02	3.4	2	.02
22	5.6	2	.03	4.1	2	.02	3.4	2	.02
23	5.2	3	.04	4.1	2	.02	3.3	2	.02
24	5.2	4	.06	4.3	2	.02	3.4	2	.02
25	5.3	3	.04	4.6	2	.02	3.3	2	.02
26	4.9	3	.04	4.3	2	.02	3.2	2	.02
27	4.7	3	.04	4.3	2	.02	3.1	2	.02
28	4.6	2	.02	4.4	2	.02	3.3	2	.02
29	4.5	2	.02	4.5	2	.02	3.5	2	.02
30	4.7	2	.03	4.4	2	.02	3.5	2	.02
31	4.7	2	.03	5.3	2	.03	---	---	---
TOTAL	190.3	---	1.51	129.4	---	0.76	120.9	---	1.06
PERIOD	20596.5		47544.97						

## PESCADERO CREEK BASIN

11162500 PESCADERO CREEK NEAR PESCADERO, CA--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
DEC 24...	1530	10.5	451	537	654	32	42	51	60	70	--
JAN 11...	1930	15.0	393	534	567	35	46	60	74	87	--
13...	1425	14.0	492	336	446	27	36	44	54	65	--
14...	0730	15.0	927	2240	5610	--	31	40	52	64	--
14...	0830	15.0	840	2070	4700	--	33	42	53	66	--
FEB 19...	1435	12.0	2190	3160	18700	--	28	36	46	57	69
21...	1245	14.0	1070	1470	4250	--	33	42	52	65	--
21...	1730	12.0	899	1090	2650	27	35	45	56	68	--
24...	1555	12.0	243	128	84	--	--	--	--	--	--
MAR 05...	0845	11.0	258	252	176	--	--	--	--	--	--

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
DEC 24...	78	--	88	--	94	--	98	--	100	--
JAN 11...	95	--	99	--	100	--	--	--	--	--
13...	73	--	80	--	88	--	98	--	100	--
14...	79	--	91	--	98	--	100	--	--	--
14...	80	--	90	--	97	--	100	--	--	--
FEB 19...	--	84	--	94	--	99	--	100	--	--
21...	75	--	84	--	91	--	98	--	98	99
21...	83	--	93	--	98	--	100	--	--	--
24...	83	--	93	--	96	--	100	--	--	--
MAR 05...	89	--	90	--	91	--	97	--	100	--



## 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 mi<sup>2</sup> (131.8 km<sup>2</sup>).

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

GAGE.--Water-stage recorder to Aug. 29. Datum of gage is 11.40 ft (3.475 m) National Geodetic Vertical Datum of 1929. Twice daily gage-height readings used after Aug. 29.

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

AVERAGE DISCHARGE.--11 years, 35.8 ft<sup>3</sup>/s (1.01 m<sup>3</sup>/s), 25,940 acre-ft/yr (32.0 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,730 ft<sup>3</sup>/s (106 m<sup>3</sup>/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 ft<sup>3</sup>/s (28 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	1600	2180	61.7	13.05	3.978	Feb. 19	0045	2600	73.6	14.36	4.377
Jan. 13	2115	*2650	75.0	14.51	4.423						

Minimum daily discharge, 0.38 ft<sup>3</sup>/s (0.011 m<sup>3</sup>/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.58	3.5	6.0	100	29	79	21	16	9.5	6.4	1.9	1.6
2	.58	3.2	5.6	81	28	83	21	15	9.7	7.3	1.9	1.2
3	.47	8.4	5.0	65	27	78	20	15	9.2	7.4	2.6	2.0
4	.38	20	4.3	57	26	73	21	15	9.6	6.4	2.8	1.8
5	.46	7.6	3.9	50	26	245	106	13	9.8	5.8	2.9	1.0
6	.71	6.5	3.9	47	24	201	42	13	8.6	5.9	3.0	1.3
7	.77	6.9	3.8	44	24	133	32	14	8.3	4.9	3.0	1.8
8	.59	5.0	3.8	42	23	103	28	13	8.4	4.5	2.9	2.4
9	.61	4.1	3.7	43	24	83	27	14	8.6	4.4	2.9	3.7
10	.50	3.7	3.7	77	27	70	25	17	7.6	4.1	2.8	3.0
11	.58	3.5	3.6	511	27	63	24	15	7.7	3.9	2.6	2.8
12	.61	3.2	3.3	718	27	53	22	15	8.1	4.0	2.6	3.0
13	.54	3.1	3.3	1110	26	47	21	14	7.8	4.9	3.0	2.6
14	.87	3.0	3.2	702	38	44	21	14	8.4	5.3	4.2	2.4
15	.88	2.9	3.2	333	63	43	20	13	8.9	4.7	4.7	2.2
16	1.2	7.7	3.1	228	510	38	20	13	9.0	3.8	4.4	1.5
17	1.3	25	3.1	227	536	36	19	12	9.3	3.2	4.4	.92
18	1.3	9.2	3.1	164	657	37	19	12	9.5	3.8	3.4	.80
19	5.4	6.6	5.4	114	1410	35	19	11	9.7	4.5	3.7	.80
20	16	5.4	6.6	88	716	33	19	12	9.5	4.8	3.4	.92
21	5.8	4.4	5.8	73	676	34	21	12	8.9	4.4	3.2	.92
22	3.3	5.1	5.6	62	440	31	21	12	8.7	4.0	3.7	.92
23	2.5	12	40	51	266	29	23	11	8.4	3.7	3.4	.80
24	2.3	7.9	767	46	185	27	20	11	7.9	3.1	3.7	.80
25	44	13	424	43	140	32	19	11	7.1	3.1	2.6	.69
26	13	21	121	39	112	28	18	11	6.8	3.0	3.0	.49
27	6.7	13	70	37	146	26	17	10	6.0	3.4	2.8	.58
28	4.9	9.2	49	35	149	24	17	11	5.8	3.1	2.7	.49
29	3.8	7.6	42	33	95	24	17	10	6.0	3.0	2.4	.58
30	3.2	6.5	80	31	---	23	16	9.2	6.0	2.2	2.0	1.6
31	3.6	---	120	30	---	22	---	9.3	---	2.1	1.8	---
TOTAL	127.43	238.2	1806.0	5281	6477	1877	736	393.5	248.8	135.1	94.4	45.61
MEAN	4.11	7.94	58.3	170	223	60.5	24.5	12.7	8.29	4.36	3.05	1.52
MAX	44	25	767	1110	1410	245	106	17	9.8	7.4	4.7	3.7
MIN	.38	2.9	3.1	30	23	22	16	9.2	5.8	2.1	1.8	.49
AC-FT	253	472	3580	10470	12850	3720	1460	781	493	268	187	90

CAL YR 1979	TOTAL	11110.35	MEAN	30.4	MAX	767	MIN	.29	AC-FT	22040
WTR YR 1980	TOTAL	17460.04	MEAN	47.7	MAX	1410	MIN	.38	AC-FT	34630

## PILARCITOS CREEK BASIN

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 mi<sup>2</sup> (70.4 km<sup>2</sup>).

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 except those for period of no gage-height record, Feb. 21 to Apr. 4, and May 17 to June 10, which are poor. Flow partly regulated by storage in Pilarcitos Lake 10 mi (16 km) upstream, capacity, 3,100 acre-ft (3.82 hm<sup>3</sup>). Water is diverted to City of San Francisco Water System; small diversions for irrigation above station by pumping.

AVERAGE DISCHARGE (unadjusted).--14 years, 12.4 ft<sup>3</sup>/s (0.351 m<sup>3</sup>/s), 8,980 acre-ft/yr (11.1 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,290 ft<sup>3</sup>/s (36.5 m<sup>3</sup>/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 ft<sup>3</sup>/s (5.7 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 25	0545	290 8.21	5.07 1.545	Feb. 19	0615	*997 28.2	9.58 2.920
Jan. 13	1945	699 19.8	7.77 2.368				

Minimum daily discharge, no flow Oct. 1-18, July 31, Aug 1-3, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.5	2.2	14	9.4	23	5.4	4.4	2.0	.71	0	.43
2	0	2.2	2.3	12	8.8	21	5.3	3.8	1.9	.85	0	.52
3	0	5.3	1.6	11	8.4	19	5.1	3.6	1.8	.66	0	.72
4	0	2.3	1.4	10	8.1	30	9.8	4.0	1.6	.55	.07	.82
5	0	1.8	1.7	10	7.5	63	31	5.0	1.4	.51	.11	.63
6	0	4.4	1.7	9.7	7.2	42	19	5.0	1.3	.55	.05	.64
7	0	3.8	1.8	9.4	7.1	32	15	4.9	1.2	.57	0	1.2
8	0	2.7	1.5	10	6.6	23	10	5.4	1.3	.30	.16	1.4
9	0	2.5	1.4	15	6.2	20	8.5	6.3	1.4	.18	.27	1.2
10	0	2.1	1.6	17	6.2	18	8.2	7.0	1.2	.08	.42	1.0
11	0	1.6	1.5	96	6.1	14	7.9	6.3	1.1	.15	.47	1.2
12	0	1.6	1.4	156	5.8	13	7.0	6.5	1.2	.19	.34	1.2
13	0	1.3	1.5	265	5.8	12	6.5	5.6	1.1	.25	.43	1.1
14	0	1.6	1.5	201	9.0	11	6.5	5.3	1.0	.33	.64	1.1
15	0	2.2	1.5	77	11	10	6.1	4.2	.97	.31	.76	.83
16	0	9.8	1.6	55	24	9.4	4.9	3.6	1.0	.26	.88	.45
17	0	7.5	1.5	54	41	9.3	4.5	3.3	1.1	.27	1.1	.45
18	0	3.8	1.6	46	38	9.6	3.9	3.4	1.1	.18	1.3	.40
19	.04	3.0	3.2	38	360	8.7	3.9	3.5	1.1	.42	.83	.43
20	.16	2.5	2.2	31	152	8.4	4.2	3.3	1.1	.46	.71	.59
21	.11	2.3	2.0	27	190	8.8	4.6	3.4	1.2	.46	.83	.71
22	.05	3.4	1.7	23	135	7.6	4.0	3.3	1.2	.24	.88	.62
23	.03	2.9	12	20	60	7.4	4.1	3.1	1.2	.20	.83	.49
24	.02	3.4	75	17	45	7.0	3.6	2.8	1.1	.12	1.5	.43
25	13	3.9	81	16	34	8.0	3.8	2.6	.75	.10	3.4	.37
26	3.2	3.7	25	14	30	6.9	3.5	2.8	.83	.06	2.0	.37
27	1.8	2.9	16	13	37	6.4	3.6	2.6	.77	.13	1.6	.29
28	1.5	3.1	12	12	42	6.2	3.9	2.3	.63	.26	1.2	.40
29	1.2	2.7	10	12	27	6.1	3.8	2.1	.86	.06	.74	.46
30	1.2	2.2	15	11	---	5.9	4.3	2.0	.87	.01	.23	.28
31	1.6	---	16	10	---	5.5	---	2.0	---	0	.53	---
TOTAL	23.91	94.0	300.4	1312.1	1328.2	472.2	211.9	123.4	35.28	9.42	22.28	20.73
MEAN	.77	3.13	9.69	42.3	45.8	15.2	7.06	3.98	1.18	.30	.72	.69
MAX	13	9.8	81	265	360	63	31	7.0	2.0	.85	3.4	1.4
MIN	0	1.3	1.4	9.4	5.8	5.5	3.5	2.0	.63	0	0	.28
AC-FT	47	186	596	2600	2630	937	420	245	70	19	44	41
(†)	64	26	3.7	1721	1348	682	0	0.1	30	43	49	43

CAL YR 1979 TOTAL 3612.86 MEAN 9.90 MAX 230 MIN 0 AC-FT 7170 † 2910  
WTR YR 1980 TOTAL 3953.82 MEAN 10.8 MAX 360 MIN 0 AC-FT 7840 † 4060

† 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 mi<sup>2</sup> (28.0 km<sup>2</sup>).

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.--17 years, 6.97 ft<sup>3</sup>/s (0.197 m<sup>3</sup>/s), 5,050 acre-ft/yr (6.23 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,880 ft<sup>3</sup>/s (81.6 m<sup>3</sup>/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 900 ft<sup>3</sup>/s (25 m<sup>3</sup>/s) (revised) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Oct. 25	0640	1080 30.6	7.92 2.414	Feb. 19	0255	*2230 63.2	11.00 3.353
Nov. 3	0910	1450 41.1	8.87 2.104	Mar. 4	2315	1260 35.7	8.39 2.557
Jan. 13	1630	1210 34.3	8.26 2.518				

Minimum daily discharge, 0.59 ft<sup>3</sup>/s (0.017 m<sup>3</sup>/s) May 23-28, June 22-July 1, July 17-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	.93	.84	2.0	.85	6.7	1.6	1.4	.84	.59	1.2	.84
2	2.4	.84	.84	1.5	.85	52	1.6	1.6	.84	1.6	.84	.84
3	2.3	154	.74	1.6	.87	21	1.6	1.6	.84	1.0	.84	.84
4	2.3	2.4	.89	1.2	.86	46	28	1.6	.84	.84	.84	.84
5	2.5	1.7	.84	.85	.84	55	40	1.6	.84	.84	1.1	.84
6	2.7	19	.84	.84	.89	27	4.5	1.6	.84	.84	1.2	.84
7	2.6	5.5	.84	.84	.84	9.5	2.7	1.6	.84	.84	1.2	1.9
8	2.3	1.4	.84	.84	.96	7.4	2.1	1.6	.84	.84	1.3	1.8
9	2.7	.95	1.0	59	.85	5.1	1.9	15	.89	.84	1.2	1.5
10	2.6	.84	.84	35	.84	3.2	1.6	1.6	.84	.84	1.2	1.2
11	2.2	1.2	.84	145	.89	3.9	1.6	1.6	.84	.84	1.0	1.6
12	2.1	1.9	.84	41	.84	2.6	1.6	2.5	.84	.84	.84	1.2
13	2.1	1.6	.84	141	1.2	1.8	1.8	.84	.84	.84	.84	1.2
14	2.2	.90	.84	25	44	4.9	1.6	.84	.92	.84	.84	1.2
15	2.5	1.1	.90	67	69	1.7	1.6	.84	1.2	.84	.84	1.2
16	.84	84	.84	17	118	1.6	1.6	.84	1.2	.77	.84	1.2
17	.80	6.4	.84	29	69	1.6	1.6	.84	1.2	.59	.84	1.2
18	4.8	.94	1.6	9.0	33	1.5	1.6	.84	1.2	.59	.84	1.2
19	42	.84	44	4.7	211	1.2	1.3	.84	1.6	.59	.84	1.2
20	5.6	.84	10	3.2	151	1.2	16	.84	.84	.59	.84	1.2
21	1.5	.84	1.1	3.1	64	1.8	1.7	.84	.72	.59	.84	1.2
22	1.2	24	.84	2.8	20	1.7	2.4	.71	.59	.59	.84	1.2
23	1.2	1.2	115	2.0	11	2.4	1.6	.59	.59	.59	.84	1.2
24	1.2	3.8	197	1.6	22	1.6	1.6	.59	.59	.59	.84	1.2
25	135	5.4	30	1.5	7.5	9.9	1.6	.59	.59	.79	.84	1.2
26	1.8	.93	3.8	1.5	4.9	1.6	1.6	.59	.59	.84	.96	1.5
27	.84	.84	3.1	1.6	105	1.6	1.6	.59	.59	.84	.98	1.2
28	.84	.84	2.3	1.7	16	1.6	1.3	.59	.59	1.0	.84	1.2
29	.84	.84	1.8	1.3	9.7	1.6	1.2	.72	.59	1.2	.84	1.4
30	1.3	.84	40	.84	---	1.6	1.2	.84	.59	1.2	.84	1.4
31	.99	---	6.3	.84	---	1.6	---	.84	---	1.2	.84	---
TOTAL	236.75	326.81	471.29	604.35	966.68	281.9	131.7	47.51	25.16	25.83	28.98	36.54
MEAN	7.64	10.9	15.2	19.5	33.3	9.09	4.39	1.53	.84	.83	.93	1.22
MAX	135	154	197	145	211	55	40	15	1.6	1.6	1.3	1.9
MIN	.80	.84	.74	.84	.84	1.2	1.2	.59	.59	.59	.84	.84
AC-FT	470	648	935	1200	1920	559	261	94	50	51	57	72
(†)	1.19	2.54	2.20	3.03	3.56	1.17	0.55	0.17	0.03	0.05	0.06	0.09
(‡)	2.41	3.51	5.02	4.98	9.06	2.34	1.77	0.46	0.01	0.05	0.13	0.11
CAL YR 1979 TOTAL	3065.87											
MEAN 8.40												
MAX 197												
MIN .43												
AC-FT 6080												
WTR YR 1980 TOTAL	3183.50											
MEAN 8.70												
MAX 211												
MIN .59												
AC-FT 6310												

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

‡ Precipitation, in inches, at Skyline College gage.

## REDWOOD CREEK BASIN

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 mi<sup>2</sup> (4.71 km<sup>2</sup>).

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 good except those for period of no gage-height record, June 19 to July 25, which are fair. Low flow at times affected by return flow from urban irrigation.

AVERAGE DISCHARGE.--21 years, 1.06 ft<sup>3</sup>/s (0.030 m<sup>3</sup>/s), 768 acre-ft/yr (947,000 m<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 644 ft<sup>3</sup>/s (18.2 m<sup>3</sup>/s) Jan. 31, 1963, gage height, 9.36 ft (2.853 m), from rating curve extended above 180 ft<sup>3</sup>/s (5.10 m<sup>3</sup>/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 ft<sup>3</sup>/s (2.8 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 24	1430	162 4.59	4.68 1.426	Feb. 19	0015	196 5.55	5.08 1.548
Jan. 13	1745	*232 6.57	5.49 1.673				

Minimum daily discharge, no flow Oct. 2-7, 10-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.02	.07	.91	.56	1.7	.50	.27	.17	.08	.06	.04
2	0	.02	.07	.61	.55	5.8	.47	.26	.14	.30	.07	.03
3	0	2.2	.07	.49	.55	3.3	.42	.26	.13	.12	.08	.01
4	0	.22	.06	.43	.55	2.5	1.3	.25	.15	.06	.09	.03
5	0	.09	.07	.39	.51	14	16	.24	.16	.06	.08	.13
6	0	.07	.07	.35	.48	9.4	1.9	.25	.15	.05	.10	.01
7	0	.19	.06	.34	.42	3.5	.71	.23	.14	.05	.12	.02
8	.01	.15	.07	.46	.42	2.3	.60	.22	.13	.05	.17	.02
9	.01	.07	.07	2.5	.38	1.8	.68	1.3	.17	.05	.10	.02
10	0	.06	.06	3.8	.38	1.6	.53	2.0	.11	.04	.10	.01
11	0	.06	.07	34	.38	1.5	.49	.46	.09	.04	.15	.01
12	0	.05	.06	20	.38	1.4	.55	.32	.09	.04	.02	.01
13	0	.05	.06	56	.40	1.3	.42	.31	.09	.04	.02	.01
14	0	.05	.06	12	5.2	1.2	.41	.29	.09	.04	.01	.02
15	0	.05	.05	7.3	15	1.1	.40	.28	.08	.04	.02	.01
16	0	1.5	.05	3.8	39	1.1	.40	.26	.08	.04	.02	.02
17	0	.40	.05	2.5	26	1.0	.41	.25	.08	.03	.02	.04
18	0	.10	.05	1.8	21	.96	.41	.23	.08	.03	.03	.03
19	.96	.07	.28	1.4	69	.91	.38	.23	.07	.03	.03	.02
20	.30	.07	.10	1.2	21	.86	.39	.24	.07	.03	.04	.01
21	.02	.06	.16	1.0	22	.82	.38	.22	.07	.03	.06	.02
22	.01	.82	.08	.96	8.3	.79	.95	.20	.06	.03	.06	.02
23	.01	.31	7.4	.89	3.5	.74	.69	.31	.06	.03	.06	.02
24	.01	.11	31	.88	2.5	.72	.37	.24	.06	.03	.06	.02
25	7.2	.30	9.1	.82	2.0	1.5	.35	.17	.06	.04	.12	.01
26	.16	.40	1.2	.74	1.7	.86	.35	.17	.05	.03	.04	.01
27	.05	.10	.65	.71	9.1	.67	.32	.18	.05	.04	.01	.01
28	.02	.07	.46	.71	6.9	.63	.31	.17	.05	.04	.01	.01
29	.02	.07	.39	.66	2.1	.59	.31	.15	.05	.08	.01	.01
30	.02	.07	4.6	.60	---	.56	.31	.15	.05	.08	.01	.01
31	.02	---	2.1	.60	---	.53	---	.16	---	.08	.03	---
TOTAL	8.83	7.80	58.64	158.85	260.26	65.64	31.71	10.27	2.83	1.73	1.80	.64
MEAN	.28	.26	1.89	5.12	8.97	2.12	1.06	.33	.094	.056	.058	.021
MAX	7.2	2.2	31	56	69	14	16	2.0	.17	.30	.17	.13
MIN	0	.02	.05	.34	.38	.53	.31	.15	.05	.03	.01	.01
AC-FT	18	15	116	315	516	130	63	20	5.6	3.4	3.6	1.3
CAL YR 1979	TOTAL	451.12	MEAN 1.24	MAX 40	MIN 0	AC-FT	895					
WTR YR 1980	TOTAL	609.00	MEAN 1.66	MAX 69	MIN 0	AC-FT	1210					

## SAN FRANCISQUITO CREEK BASIN

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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 mi<sup>2</sup> (96.9 km<sup>2</sup>).

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 hm<sup>3</sup>). Diversions of about 800 acre-ft (986,000 m<sup>3</sup>) 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.--41 years, 18.2 ft<sup>3</sup>/s (0.515 m<sup>3</sup>/s), 13,190 acre-ft/yr (16.3 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,560 ft<sup>3</sup>/s (157 m<sup>3</sup>/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 ft<sup>3</sup>/s (20 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 13	2000	*3790 107	9.00 2.743
Feb. 16	2115	920 26.1	4.50 1.372
Feb. 19	0630	2090 59.2	6.60 2.012

Minimum daily discharge, 0.15 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) Oct. 2, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.92	.35	16	6.6	59	11	3.0	1.6	.57	.29	.55
2	.15	.93	.49	8.1	6.9	79	8.0	2.7	1.8	.85	.36	.35
3	.22	3.1	.70	5.0	7.2	76	8.0	2.5	1.7	.80	.39	.28
4	.30	2.5	.48	3.6	7.2	61	8.9	2.5	2.0	.66	.44	.32
5	.34	.85	.47	2.9	6.8	184	94	2.4	2.1	.50	.42	.58
6	.36	.64	.97	2.4	6.5	151	35	2.1	2.2	.55	.58	.63
7	.36	.80	1.3	2.0	15	95	21	2.1	1.9	.55	.42	.28
8	.49	.73	1.5	1.7	8.7	72	15	2.8	1.6	.65	.46	.41
9	.29	.48	1.6	12	6.0	57	9.0	4.8	1.6	.47	.85	.53
10	.26	.44	1.8	19	6.3	50	4.9	7.4	1.6	.47	.60	.42
11	.36	.42	2.2	337	6.0	47	6.2	5.2	1.4	.50	.57	.28
12	.35	.38	1.9	562	5.6	43	6.2	4.6	1.4	.76	.43	.22
13	.53	.44	.66	1150	5.3	38	5.8	4.4	1.2	.93	.43	.31
14	.70	.44	.68	525	24	36	4.6	4.3	1.3	.97	.37	.39
15	.77	.44	.55	193	92	33	4.5	3.8	1.0	.82	.39	.37
16	.89	2.5	.73	122	419	29	4.2	3.4	1.0	.58	.35	.43
17	.67	3.0	.91	101	458	27	3.9	3.0	.78	.71	.42	.38
18	.64	1.3	.77	73	366	27	4.0	2.8	.82	.63	.41	.49
19	1.8	.86	1.2	47	1370	34	4.1	2.5	.99	.64	.35	.39
20	1.0	.64	.74	34	455	26	4.1	2.3	.81	.70	.52	.46
21	.48	.52	1.1	28	551	23	4.5	2.3	.64	.77	.44	.30
22	.18	2.1	1.3	22	284	21	5.5	2.1	.71	.82	.51	.28
23	.15	2.2	11	19	172	18	7.0	2.0	1.1	.62	.51	.33
24	.31	1.0	206	18	118	14	5.6	1.9	.88	.52	.28	.31
25	16	1.1	167	16	77	12	4.9	2.0	.56	.58	.52	.34
26	2.2	3.3	39	14	58	16	4.3	2.1	.50	.49	.39	.30
27	.69	1.4	12	13	97	17	3.9	2.2	.47	.42	.36	.39
28	.41	.78	5.3	12	118	20	3.6	1.8	.46	.56	.33	.33
29	.61	.46	3.3	10	71	16	3.4	1.5	.37	.44	.32	.42
30	.54	.44	22	8.3	---	13	3.3	1.3	.39	.39	.51	.35
31	.86	---	22	6.6	---	13	---	1.6	---	.57	.44	---
TOTAL	33.09	35.11	510.00	3383.6	4824.1	1407	308.4	89.4	34.88	19.49	13.66	11.42
MEAN	1.07	1.17	16.5	109	166	45.4	10.3	2.88	1.16	.63	.44	.38
MAX	16	3.3	206	1150	1370	184	94	7.4	2.2	.97	.85	.63
MIN	.15	.38	.35	1.7	5.3	12	3.3	1.3	.37	.39	.28	.22
AC-FT	66	70	1010	6710	9570	2790	612	177	69	39	27	23
(†)	1.64	1.21	3.10	3.64	5.52	1.61	.95	.08	0	.15	0	0

CAL YR 1979 TOTAL 4778.26 MEAN 13.1 MAX 506 MIN 0 AC-FT 9480  
WTR YR 1980 TOTAL 10670.15 MEAN 29.2 MAX 1370 MIN .15 AC-FT 21160

† Precipitation, in inches.

## MATADERO CREEK BASIN

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 mi<sup>2</sup> (18.80 km<sup>2</sup>).

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.--28 years, 1.99 ft<sup>3</sup>/s (0.056 m<sup>3</sup>/s), 1,440 acre-ft/yr (1.78 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,380 ft<sup>3</sup>/s (39.1 m<sup>3</sup>/s) Feb. 27, 1973, gage height, 5.57 ft (1.698 m), from rating curve extended above 400 ft<sup>3</sup>/s (11.3 m<sup>3</sup>/s) on basis of step-backwater computation at gage height 8.00 ft (2.438 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 ft<sup>3</sup>/s (5.7 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Oct. 25	0830	320 9.06	2.30 0.701	Feb. 19	0030	*594 16.8	3.26 0.994
Jan. 13	1845	467 13.2	2.83 0.863	Feb. 20	2015	305 8.64	2.24 0.683
Feb. 16	1145	530 15.0	3.04 0.927				

Minimum daily discharge, no flow Dec. 14.

REVISIONS.--Peak discharges and annual maximum(\*) for water years 1971-75, 1978-79, and daily water discharges for water years 1971-74 and 1978 have been revised as shown in the following table. These figures supersede those published in the reports for 1971-75 and 1978-79.

Water Year	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
1971	Nov. 29, 1970	0230	333 9.43	2.35 0.716
	Dec. 2	0200	347 9.83	2.40 0.732
	20	2030	*576 16.3	3.20 0.975
1972	Dec. 21, 1971	2300	*246 6.97	2.04 0.622
1973	Oct. 11, 1972	0830	305 8.64	2.24 0.683
	Nov. 15	1730	485 13.7	2.89 0.881
	Jan. 16, 1973	0830	792 22.4	3.89 1.186
	18	0900	637 18.0	3.40 1.036
	30	0300	349 9.88	2.41 0.732
	Feb. 6	1030	684 19.4	3.55 1.082
	9	2330	305 8.64	2.24 0.683
	13	0230	379 10.7	2.52 0.768
	27	1500	*1380 39.1	5.57 1.698
1974	Nov. 30, 1973	2400	532 15.1	3.05 0.930
	Jan. 3, 1974	1630	*818 23.2	3.97 1.210
1975	Mar. 21, 1975	2000	*405 11.5	2.61 0.796
1978	Jan. 5, 1978	1455	313 8.86	2.27 0.692
	14	1800	747 21.2	3.75 1.143
	16	1100	*782 22.1	3.86 1.176
	Feb. 7	1000	438 12.4	2.73 0.832
	12	1330	402 11.4	2.60 0.792
1979	Jan. 14, 1979	2300	*305 8.64	2.24 0.683
	Feb. 22	1300	302 8.55	2.23 0.680

Nov. 28, 1970.....	75	Nov. 13, 1972.....	39	Feb. 14, 1973.....	79
29.....	74	14.....	79	26.....	88
		15.....	90	27.....	296
Dec. 2.....	108			28.....	42
18.....	52	Jan. 9, 1973.....	74		
20.....	110	16.....	187	Jan. 3, 1974.....	161
26.....	48	17.....	46		
		18.....	232	Jan. 5, 1978.....	128
Oct. 11, 1972.....	46	30.....	57	9.....	76
				13.....	70
Nov. 4.....	11	Feb. 6.....	220	14.....	241
10.....	20	9.....	29	16.....	154
11.....	27	10.....	51		

## 11166000 MATADERO CREEK AT PALO ALTO, CA--Continued

## REVISIONS--Continued

MONTH	TOTAL	MEAN	MAX	MIN	ACRE-FEET
November 1970	184.58	6.15	75	.14	366
December	514.38	16.6	110	.17	1020
WTR YR 1971	877.47	2.40	110	.04	1740
October 1972	91.30	2.95	46	.11	181
November	294.75	9.82	90	.10	585
January 1973	725.60	23.4	232	.05	1440
February	1030.6	36.8	296	2.7	2040
WTR YR 1973	2477.50	6.79	296	.05	4910
January 1974	315.5	10.2	161	1.3	626
WTR YR 1974	1160.75	3.18	161	.14	2300
January 1978	895.14	28.9	241	.45	1780
WTR YR 1978	1802.08	4.94	241	.03	3570

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.08	.03	1.6	.68	4.3	1.3	.68	.20	.14	.04	.10
2	.13	.06	.02	.71	.68	16	1.4	.52	.23	2.3	.05	.07
3	.14	5.2	.02	.46	.68	7.4	1.4	.52	.11	.20	.18	.09
4	.09	.79	.05	.39	.61	5.3	3.1	.60	.15	.07	.05	.09
5	.11	.08	.04	.30	.60	31	17	.45	.17	.15	.04	.08
6	.08	.08	.04	.24	.58	18	2.9	.52	.13	.15	.07	.05
7	.08	1.8	.04	.23	.56	7.2	2.3	.52	.06	.06	.09	.05
8	.06	.58	.03	.78	.66	5.0	1.9	.40	.04	.05	.12	.07
9	.09	.08	.02	12	.61	3.8	1.8	.77	.06	.12	.12	.10
10	.06	.10	.02	8.4	.60	3.6	1.6	.77	.04	.05	.08	.08
11	.08	.11	.02	38	.60	3.9	1.4	.52	.04	.09	.10	.06
12	.10	.13	.02	39	.61	3.3	1.3	.52	.04	.05	.09	.04
13	.09	.11	.01	106	.72	2.9	1.1	.60	.04	.07	.08	.06
14	.09	.08	0	26	10	2.7	1.1	.52	.06	.05	.15	.07
15	.10	.05	.02	17	27	2.3	1.1	.52	.06	.07	.08	.05
16	.11	6.7	.01	7.7	152	2.1	1.3	.40	.04	.06	.15	.05
17	.09	1.4	.02	6.3	57	2.1	1.1	.40	.06	.20	.10	.04
18	.11	.09	.03	3.8	79	2.3	1.1	.24	.09	.09	.09	.06
19	2.7	.04	3.0	2.6	221	2.1	1.1	.24	.06	.05	.12	.08
20	2.5	.01	.23	2.2	64	1.9	1.4	.24	.04	.04	.09	.08
21	.25	.02	.37	1.8	49	2.1	1.1	.18	.03	.04	.12	.08
22	.16	3.0	.10	1.6	20	1.7	4.8	.12	.05	.05	.12	.07
23	.43	.61	24	1.4	10	1.5	1.9	.14	.05	.03	.09	.21
24	.18	.04	38	1.3	7.0	1.3	1.4	.13	.07	.06	.09	.33
25	28	.55	14	1.3	5.7	5.5	1.1	.26	.07	.19	.06	.22
26	.49	1.0	2.7	1.2	4.7	1.9	1.1	.20	.07	.15	.10	.22
27	.11	.02	1.2	1.0	25	1.8	1.1	.34	.07	.13	.12	.24
28	.07	.01	.71	.87	11	1.6	.99	.20	.06	.04	.08	.25
29	.06	.02	.69	.94	5.4	1.6	.87	.08	.05	.07	.08	.12
30	.08	.03	8.1	.78	---	1.6	.77	.19	.03	.05	.10	.16
31	.06	---	4.0	.75	---	1.6	---	.21	---	.05	.10	---
TOTAL	36.81	22.87	97.54	286.65	755.99	149.4	61.83	12.00	2.27	4.92	2.95	3.27
MEAN	1.19	.76	3.15	9.25	26.1	4.82	2.06	.39	.076	.16	.095	.11
MAX	28	6.7	38	106	221	31	17	.77	.23	2.3	.18	.33
MIN	.06	.01	0	.23	.56	1.3	.77	.08	.03	.03	.04	.04
AC-FT	73	45	193	569	1500	296	123	24	4.5	9.8	5.9	6.5
CAL YR 1979	TOTAL	805.50	MEAN	2.21	MAX	63	MIN	0	AC-FT	1600		
WTR YR 1980	TOTAL	1436.50	MEAN	3.92	MAX	221	MIN	0	AC-FT	2850		

## 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 mi<sup>2</sup> (44.8 km<sup>2</sup>).

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 hm<sup>3</sup>) 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 hm<sup>3</sup>) 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, 2,340 acre-ft (2.89 hm<sup>3</sup>) Feb. 20, elevation, 519.5 ft (158.34 m); no minimum observed.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY  
STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Contents
Sept. 30, 1979.....	175
Oct. 31.....	17
Nov. 30.....	--
Dec. 31.....	860
Jan. 31, 1980.....	916
Feb. 29.....	868
Mar. 31.....	1180
Apr. 30.....	1180
May 31.....	1150
June 30.....	998
July 31.....	787
Aug. 31.....	599
Sept. 30.....	406



## RESERVOIRS IN GUADALUPE RIVER BASIN, CA

- 11166670 ALMADEN RESERVOIR.--Lat 37°09'54", long 121°49'39", in San Vicente Grant, Santa Clara County, Hydrologic Unit 18050003, at center of dam on Alamitos Creek, 0.7 mi (1.1 km) southwest of New Almaden, and 7 mi (11 km) south of Edenvale. DRAINAGE AREA, 12.0 mi<sup>2</sup> (31.1 km<sup>2</sup>), 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 hm<sup>3</sup>) between elevations 533.1 ft (162.49 m), invert of outlet tunnel and 606.9 ft (184.98 m), crest of spillway. Water released down Alamitos Creek for ground-water recharge by percolation and minor irrigation. Up to 100 ft<sup>3</sup>/s (2.83 m<sup>3</sup>/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 hm<sup>3</sup>) 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, 1,840 acre-ft (2.27 hm<sup>3</sup>) Feb. 19, elevation, 608.0 ft (185.32 m); no minimum observed.
- 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 mi<sup>2</sup> (17.95 km<sup>2</sup>), 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 hm<sup>3</sup>) 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 ft<sup>3</sup>/s (2.83 m<sup>3</sup>/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 hm<sup>3</sup>) 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, 9,890 acre-ft (12.2 hm<sup>3</sup>) April 20, elevation, 483.0 ft (147.22 m); minimum observed, 1,100 acre-ft (1.36 hm<sup>3</sup>) Dec. 15-19, elevation, 437.4 ft (133.31 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 mi<sup>2</sup> (15.51 km<sup>2</sup>), 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 hm<sup>3</sup>) 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 3,790 acre-ft (4.67 hm<sup>3</sup>) Feb. 19, 1980, elevation, 617.8 ft (188.32 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, 3,790 acre-ft (4.67 hm<sup>3</sup>) Feb. 19, elevation, 617.8 ft (188.32 m); minimum observed, 312 acre-ft (385,000 m<sup>3</sup>) Oct. 24, 25, elevation, 544.6 ft (165.99 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 mi<sup>2</sup> (25.33 km<sup>2</sup>), 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 hm<sup>3</sup>) 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 m<sup>3</sup>). 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 hm<sup>3</sup>) 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, 6,260 acre-ft (7.2 hm<sup>3</sup>) Feb. 20, elevation, 1,111.7 ft (338.85 m); minimum observed, 408 acre-ft (503,100 m<sup>3</sup>) Oct. 24, elevation, 1,013.6 ft (308.95 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 mi<sup>2</sup> (95.6 km<sup>2</sup>), 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 hm<sup>3</sup>) 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 m<sup>3</sup>). 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 hm<sup>3</sup>) 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, 20,920 acre-ft (25.8 hm<sup>3</sup>) Feb. 21, elevation, 651.6 ft (198.60 m); minimum observed, 3,080 acre-ft (3.80 hm<sup>3</sup>) Dec. 23, elevation 579.4 ft (176.61 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY  
STORAGE ABOVE SPILLWAY CREST) AT 2400, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Almaden Reservoir	Calero Reservoir	Guadalupe Reservoir	Lake Elsmann	Lexington Reservoir
Sept. 30, 1979.....	223	1640	318	700	4740
Oct. 31.....	144	1110	324	417	3650
Nov. 30.....	--	1110	349	460	3320
Dec. 31.....	500	1190	617	1030	4670
Jan. 31, 1980.....	410	5340	2510	4800	10060
Feb. 29.....	1700	9000	3590	6170	19710
Mar. 31.....	1680	9730	3620	6150	19710
Apr. 30.....	1630	9810	3640	6000	19790
May 31.....	1490	9080	3390	5290	19140
June 30.....	1620	8520	2580	4390	16140
July 31.....	1630	8350	1470	3210	14110
Aug. 31.....	1580	8020	519	2230	10300
Sept. 30.....	1540	7810	436	1310	6260

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1978 to current year.

BIOLOGICAL DATA: Water years 1978 to current year.

AT SOUTH END (Lat 37°10'24", long 121°59'33", in SW¼SW¼ sec.4, T.9 W., Santa Clara County,  
Hydrologic Unit 18050003)

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)			
MAR												
18...	1257	.10	--	--	--	--	--	57	--			
18...	1258	.50	--	--	--	--	--	9.0	--			
18...	1259	1.0	--	--	--	--	--	1.0	--			
18...	1310	.50	244	8.1	12.9	9.5	91	--	17.37			
18...	1311	1.0	244	8.0	12.9	9.5	91	--	22.09			
18...	1312	2.0	244	8.0	12.9	9.5	91	--	23.24			
18...	1313	3.0	244	7.9	12.8	9.5	91	--	23.24			
18...	1314	4.0	244	7.9	12.8	9.5	91	--	23.24			
18...	1315	5.0	243	7.9	12.8	9.5	91	--	23.24			
18...	1316	6.0	243	7.9	12.7	9.5	90	--	23.24			
18...	1317	7.0	244	7.9	12.7	9.4	90	--	23.24			
18...	1318	8.0	244	7.9	12.7	9.4	90	--	23.24			
18...	1319	9.0	249	7.9	12.5	9.5	90	--	23.24			
18...	1320	10.0	250	7.9	12.3	9.5	90	--	22.62			
18...	1321	11.0	254	7.9	12.1	9.7	92	--	22.09			
18...	1322	12.0	268	7.9	11.8	9.8	92	--	21.61			
18...	1330	1.0	244	8.0	12.9	9.5	95	--	--			
18...	1345	6.0	243	7.9	12.7	9.5	90	--	--			
18...	1350	10.0	250	7.9	12.3	9.5	90	--	--			
MAY												
29...	1349	.10	--	--	--	--	--	67	--			
29...	1350	.50	265	8.9	19.7	12.1	133	38	4.82			
29...	1351	1.0	264	8.9	19.7	12.1	133	21	4.82			
29...	1352	1.5	265	8.9	19.6	12.1	133	8.5	5.09			
29...	1353	2.0	266	8.9	19.3	12.1	133	4.9	5.09			
29...	1354	2.5	267	8.8	19.0	11.9	129	2.0	5.24			
29...	1355	3.0	267	8.8	18.8	11.8	128	1.0	5.24			
29...	1356	4.0	268	8.8	18.5	11.3	122	--	5.55			
29...	1357	5.0	271	8.8	18.3	10.6	114	--	5.24			
29...	1358	6.0	276	8.7	17.4	9.4	99	--	5.09			
29...	1359	7.0	284	8.4	16.9	7.8	81	--	4.56			
29...	1400	8.0	285	8.3	16.1	6.8	69	--	5.09			
29...	1401	9.0	290	8.2	15.6	6.1	62	--	4.95			
29...	1402	10.0	284	8.2	15.2	5.8	58	--	5.24			
29...	1403	11.0	286	8.1	14.6	5.4	53	--	9.77			
29...	1404	12.0	281	8.0	13.9	5.3	52	--	10.64			
29...	1415	1.0	264	8.9	19.7	12.1	133	--	--			
29...	1425	7.0	284	8.4	16.9	7.8	81	--	--			
29...	1435	12.0	281	8.0	13.9	5.3	52	--	--			
DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (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 AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
MAR												
18...A	1330	1.0	244	8.0	12.9	9.5	--	1	110	28	25	12
18...A	1345	6.0	243	7.9	12.7	9.5	--	6	110	20	25	12
18...A	1350	10.0	250	7.9	12.3	9.5	<1	10	120	30	26	12
MAY												
29...A	1415	1.0	264	8.9	19.7	12.1	--	1	130	35	33	11
29...A	1425	7.0	284	8.4	16.9	7.8	--	7	130	32	34	10
29...A	1435	12.0	281	8.0	13.9	5.3	--	12	130	32	33	11
29...	1440	.10	--	--	--	--	<1	<1	--	--	--	--
DATE	TIME	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY AS CAC03	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
MAR												
18...	13	20	.5	1.6	86	32	8.0	.1	14	156	.47	
18...	13	20	.5	1.7	89	31	8.0	.1	14	160	.46	
18...	14	21	.6	1.7	92	40	8.0	.1	15	322	.47	
MAY												
29...	13	18	.5	1.5	98	34	10	.1	11	171	.25	
29...	10	15	.4	1.5	100	37	10	.2	12	174	.25	
29...	10	14	.4	1.5	98	35	10	.1	15	176	.25	
29...	--	--	--	--	--	--	--	--	--	--	--	--

A Chemical-quality samples collected by Santa Clara Valley Water District.

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT SOUTH END--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO- GEN, NITRATE (MG/L AS N)	NITRO- GEN, NITRITE (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)	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											
18...	.26	<.01	.06	.01	.58	.52	.64	.53	.08	<.01	.02
18...	.30	<.01	.03	.01	.54	.47	.57	.48	.06	<.01	.03
18...	.29	<.01	.01	.00	.82	.69	.83	.69	.07	.01	.03
MAY											
29...	<.01	<.01	.07	.03	2.8	2.0	2.9	2.0	.06	.04	.01
29...	.04	<.01	.06	.04	.44	.26	.50	.30	.04	.04	.02
29...	.33	<.01	.04	.04	.62	.46	.66	.50	.06	.04	.02
29...	--	--	--	--	--	--	--	--	--	--	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE	MAR 18,80	MAR 18,80	MAR 18,80	MAY 29,80	MAY 29,80	MAY 29,80
TIME	1330	1345	1350	1415	1425	1435
DEPTH (M)	1.0	6.0	10.0	1.0	7.0	12.0
TOTAL CELLS/ML	470	78	160	180000	35000	2500
DIVERSITY: DIVISION	1.6	0.7	0.8	0.4	0.9	1.0
..CLASS	1.6	0.7	0.8	0.4	0.9	1.0
..ORDER	2.1	0.7	1.5	0.4	1.0	1.1
...FAMILY	2.2	0.7	1.5	0.4	1.0	1.1
....GENUS	2.2	0.7	1.5	0.9	1.5	1.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	--	-	* 0	--	-	--	-	
....OOCYSTACEAE												
....KIRCHNERIELLA	14	3	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	810	2	65	3
....SCENEDESMACEAE												
....SCENEDESMUS	--	-	--	-	78# 50		* 0	--	-	--	-	
....TETRASTRUM	55	12	--	-	--	-	--	-	--	-	--	-
....TETRASPORALES												
....PALMELLACEAE												
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	270	1	100	4
....VOLVOCALES												
....CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	110# 24		65# 83		39# 25		--	-	--	-	--	-
CHRYSOPHYTA												
..BACILLARIOPHYCEAE												
...CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	150# 32		13# 17		39# 25		--	-	* 0		--	-
....MELOSIRA	--	-	--	-	--	-	--	-	300	1	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-	13	1
...PENNALES												
....FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	--	-	11000	7	6200# 17		2000# 77	
....NITZSCHIA	14	3	--	-	--	-	--	-	* 0		--	-
CRYPTOPHYTA (CRYPTOMONADS)												
..CRYPTOPHYCEAE												
...CRYPTOMONADALES												
....CRYPTOMONADACEAE												
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-	13	1
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	19000	11	4500	13	230	9
....APHANIZOMENON	--	-	--	-	--	-	150000# 82		23000# 66		160	6
....OSCILLATORIA	120# 26		--	-	--	-	--	-	--	-	--	-

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 SOUTH END--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (M)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
MAR				
18...	1330	1.0	1.56	.00
18...	1345	6.0	1.76	.00
18...	1350	10.0	1.04	.00
MAY				
29...	1415	1.0	35.7	.00
29...	1425	7.0	11.5	.00
29...	1435	12.0	1.41	.00

AT CENTER (Lat 37°11'08", long 121°59'17", in SE&SE4 sec.32, T.8 S., R.1 W., Santa Clara County,  
Hydrologic Unit 18050003)

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT INCID- ENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
MAR									
18...	1107	.10	--	--	--	--	--	65	--
18...	1108	.50	--	--	--	--	--	6.2	--
18...	1109	1.0	--	--	--	--	--	1.0	--
18...	1115	.50	244	8.1	12.4	9.4	90	--	18.42
18...	1116	1.0	244	8.1	12.4	9.4	90	--	22.09
18...	1117	2.0	244	8.0	12.3	9.4	90	--	22.62
18...	1118	3.0	244	8.0	12.3	9.4	90	--	22.62
18...	1119	4.0	244	7.9	12.4	9.4	90	--	22.62
18...	1120	5.0	244	7.9	12.3	9.4	90	--	22.62
18...	1121	6.0	244	7.9	12.3	9.4	90	--	22.62
18...	1122	7.0	244	7.9	12.3	9.4	90	--	22.62
18...	1123	8.0	244	7.9	12.3	9.4	90	--	22.62
18...	1124	9.0	244	7.9	12.3	9.4	90	--	22.62
18...	1125	10.0	244	7.9	12.3	9.4	90	--	22.62
18...	1126	11.0	244	7.9	12.3	9.4	90	--	22.62
18...	1127	12.0	245	7.9	12.0	9.1	86	--	22.62
18...	1128	13.0	245	7.9	11.8	9.0	85	--	22.62
18...	1129	14.0	245	7.8	11.7	8.9	83	--	22.62
18...	1130	15.0	245	7.8	11.6	8.9	83	--	22.62
18...	1131	16.0	246	7.8	11.6	8.9	83	--	22.62
18...	1132	17.0	247	7.8	11.5	9.0	84	--	22.62
18...	1133	18.0	247	7.8	11.5	9.0	84	--	22.62
18...	1134	20.0	247	7.8	11.5	9.0	84	--	22.09
18...	1135	22.0	248	7.8	11.5	9.0	84	--	22.09
18...	1136	24.0	248	7.8	11.5	9.0	84	--	22.09
18...	1137	25.0	250	7.8	11.5	9.0	84	--	22.09
18...	1145	1.0	244	8.1	12.4	9.4	90	--	--
18...	1146	1.0	244	8.1	12.4	9.4	90	--	--
18...	1200	13.0	245	7.9	11.8	9.0	85	--	--
18...	1215	20.0	247	7.8	11.5	9.0	84	--	--
MAY									
29...	0944	.10	--	--	--	--	--	77	--
29...	0945	.50	270	8.8	18.6	11.6	125	37	4.95
29...	0946	1.0	272	8.8	18.6	11.6	125	18	5.39
29...	0947	1.5	274	8.8	18.6	11.6	125	7.5	5.39
29...	0948	2.0	274	8.8	18.4	11.4	123	3.8	5.39
29...	0949	2.5	274	8.8	18.4	11.3	122	1.5	5.39
29...	0950	2.8	274	8.8	18.3	11.2	120	1.0	5.39
29...	0951	3.0	274	8.8	18.3	11.1	119	--	5.39
29...	0952	4.0	278	8.7	17.8	9.8	104	--	4.95

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

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 1979 TO SEPTEMBER 1980

		SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)				OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)		LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH		
DATE	TIME	SAM- PLING DEPTH (M)	PH FIELD (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)	SILICA, DIS- SOLVED (MG/L AS SiO2)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	
SEP										
23...	1330	.10	440	7.8	21.9	8.5	98	63		
23...	1331	.50	432	7.8	22.7	8.4	98	36		
23...	1332	1.0	461	7.8	22.7	8.3	97	16		
23...	1345	1.0	461	7.8	22.7	8.3	97	--		
DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (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)	SILICA, DIS- SOLVED (MG/L AS SiO2)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
SEP										
23... A	1345	1.0	461	7.8	22.7	8.3	--	--	6.1	.00
23...	1620	.10	--	--	--	--	<1	<1	--	--
DATE	TIME	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)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
SEP										
23...	.00	.48	.43	.48	.43	70	<10	<1	<10	
23...	--	--	--	--	--	--	--	--	--	--
DATE	TIME	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)
SEP										
23...	<10	<10	<50	<10	70	<.5	<50	<10	50	
23...	--	--	--	--	--	--	--	--	--	--

A Chemical-quality samples collected by Santa Clara Valley Water District.

## GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

NEAR SOUTH END--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON		
DATE	SEP 23,80	
TIME	1345	
DEPTH	1.0	
TOTAL CELLS/ML	5300	
DIVERSITY: DIVISION	0.5	
..CLASS	0.7	
...ORDER	0.7	
...FAMILY	0.8	
...GENUS	0.8	
ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...CHARACIACEAE		
...SCHROEDERIA	96	2
...OOCYSTACEAE		
...DICTYOSPHAERIUM	96	2
...VOLVOCALES		
...CHLAMYDOMONADACEAE		
...CHLAMYDOMONAS	140	3
CHRYSTOPHYTA		
..BACILLARIOPHYCEAE		
...CENTRALES		
...COSCINODISCACEAE		
...CYCLOTELLA	4800#	89
..CHRYSTOPHYCEAE		
...CHRYSONOMADALES		
...MALLONADACEAE		
...MALLONAS	48	1
...OCHROMONADACEAE		
...DINOBRYON	48	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
..CYANOPHYCEAE		
...CHROOCOCCALES		
...CHROOCOCCACEAE		
...ANACYSTIS	48	1
EUGLENOPHYTA (EUGLENOIDS)		
..EUGLENOPHYCEAE		
...EUGLENALES		
...EUGLENACEAE		
...TRACHELOMONAS	96	2

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%  
 \* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

DATE	TIME	SAM- PLING DEPTH (M)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
SEP 23...	1345	1.0	5.10	.45

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 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
MAY									
29...	0953	5.0	282	8.6	17.4	8.8	93	--	4.56
29...	0954	6.0	284	8.5	17.0	8.1	84	--	4.43
29...	0955	7.0	285	8.4	16.9	7.8	81	--	3.98
29...	0956	8.0	292	8.3	15.9	5.8	59	--	3.57
29...	0957	9.0	291	8.2	15.0	5.8	58	--	4.43
29...	0958	10.0	285	8.2	14.3	5.9	58	--	5.09
29...	0959	11.0	285	8.1	14.0	6.2	61	--	6.86
29...	1000	12.0	283	8.1	13.5	6.2	60	--	9.37
29...	1001	14.0	280	8.1	13.0	6.3	61	--	12.32
29...	1002	16.0	277	8.0	12.9	6.3	61	--	13.77
29...	1003	18.0	274	8.0	12.8	6.3	61	--	14.45
29...	1004	20.0	275	8.0	12.8	6.3	61	--	15.85
29...	1005	22.0	274	8.0	12.7	6.4	60	--	16.54
29...	1006	24.0	270	8.0	12.7	6.4	60	--	17.07
29...	1007	25.0	271	7.9	12.6	6.4	60	--	18.04
29...	1040	1.0	272	8.8	18.6	11.6	125	--	--
29...	1041	1.0	272	8.8	18.6	11.6	125	--	--
29...	1050	8.0	292	8.2	15.9	5.8	59	--	--
29...	1100	24.0	270	8.0	12.7	6.4	60	--	--
SEP									
23...	1000	.10	426	7.6	21.0	7.7	87	--	4.44
23...	1001	.50	426	7.6	21.1	7.7	87	--	4.95
23...	1002	1.0	427	7.6	21.0	7.7	87	--	4.95
23...	1003	1.5	427	7.6	21.0	7.6	85	--	4.95
23...	1004	2.0	429	7.6	20.8	7.3	82	--	5.09
23...	1005	4.0	428	7.6	20.8	7.0	79	--	4.32
23...	1006	6.0	429	7.6	20.7	6.7	75	--	4.82
23...	1007	8.0	429	7.6	20.7	6.5	73	--	5.09
23...	1008	10.0	429	7.5	20.7	6.4	72	--	5.39
23...	1009	11.0	429	7.5	20.7	6.3	71	--	6.64
23...	1010	12.0	429	7.5	20.7	6.2	70	--	6.86
23...	1011	.10	--	--	--	--	--	62	--
23...	1012	.50	--	--	--	--	--	40	--
23...	1013	1.0	--	--	--	--	--	23	--
23...	1014	1.5	--	--	--	--	--	14	--
23...	1015	1.8	--	--	--	--	--	9.8	--
23...	1100	1.0	427	7.6	21.0	7.7	87	--	--
23...	1115	4.0	428	7.6	20.8	7.0	79	--	--
23...	1125	11.0	429	7.5	20.7	6.3	71	--	--

DATE	TIME	SAM- PLING DEPTH (M)	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							
18...	1145	1.0	.90	.00	--	--	--
18...	1200	13.0	.00	.00	--	--	--
18...	1215	20.0	.00	.00	--	--	--
MAY							
29...	1041	1.0	30.9	.12	--	--	--
29...	1050	8.0	5.16	.00	--	--	--
29...	1100	24.0	.40	.00	--	--	--
SEP							
23...	1100	1.0	3.62	.00	--	--	--
23...	1115	4.0	1.69	.00	--	--	--
23...	1125	11.0	1.17	.00	--	--	--
23...	1330	.90	--	--	3100	2300	770
23...	1331	1.8	--	--	1500	-770	2300

## GUADALUPE RIVER BASIN

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT CENTER--Continued

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
MAR											
18...A	1145	1.0	244	8.1	12.4	9.4	--	1	110	20	23
18...	1146	1.0	244	8.1	12.4	9.4	--	1	120	39	28
18...A	1200	13.0	245	7.9	11.8	9.0	--	13	110	20	23
18...A	1215	20.0	247	7.8	11.5	9.0	--	20	120	30	25
18...	1355	.10	--	--	--	--	K14	<1	--	--	--
MAY											
29...A	1040	1.0	272	8.8	18.6	11.6	--	--	130	36	32
29...	1041	1.0	272	8.8	18.6	11.6	--	--	130	39	33
29...A	1050	8.0	292	8.2	15.9	5.8	--	--	130	32	32
29...A	1100	24.0	270	8.0	12.7	6.4	--	--	120	22	31
29...	1445	.10	--	--	--	--	<1	<1	--	--	--
SEP											
23...	1100	1.0	427	7.6	21.0	7.7	--	--	150	28	38
23...A	1115	4.0	428	7.6	20.8	7.0	--	--	--	--	--
23...A	1125	11.0	429	7.5	20.7	6.3	--	--	--	--	--
23...	1625	.10	--	--	--	--	<1	<1	--	--	--

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 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)
MAR										
18...	12	15	23	.6	1.6	88	35	8.0	.1	14
18...	11	11	17	.4	1.5	76	39	7.8	.2	14
18...	12	14	22	.6	1.7	87	35	8.0	.1	14
18...	12	15	22	.6	1.7	90	32	8.0	.1	14
18...	--	--	--	--	--	--	--	--	--	--
MAY										
29...	12	13	18	.5	1.4	98	34	10	.1	--
29...	12	12	16	.5	1.5	100	42	8.5	.2	11
29...	12	9.0	13	.3	1.3	100	34	10	.1	14
29...	10	10	15	.4	1.4	94	33	9.0	.1	15
29...	--	--	--	--	--	--	--	--	--	--
SEP										
23...	13	13	16	.5	2.1	120	48	9.8	.2	5.6
23...	--	--	--	--	--	--	--	--	--	6.1
23...	--	--	--	--	--	--	--	--	--	6.1
23...	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS 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)	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)
MAR										
18...	164	.46	.30	<.01	--	--	.01	.00	.93	.47
18...	160	.22	.35	.01	.36	.37	.02	.01	.56	.44
18...	164	.42	.36	<.01	--	--	.01	.00	.56	.46
18...	164	.45	.25	.01	--	--	.01	.01	.83	.34
18...	--	--	--	--	--	--	--	--	--	--
MAY										
29...	--	.24	<.01	<.01	--	--	--	--	--	--
29...	176	.24	.02	.02	.04	.01	.09	.03	.54	.25
29...	172	.26	.10	<.01	--	--	.04	.03	1.2	1.4
29...	170	.25	.37	<.01	--	--	.04	.03	.33	.36
29...	--	--	--	--	--	--	--	--	--	--
SEP										
23...	202	.27	.00	.00	.00	.00	.00	.00	.76	.54
23...	--	--	--	--	--	--	.00	.00	--	.60
23...	--	--	--	--	--	--	.00	.00	.45	.41
23...	--	--	--	--	--	--	--	--	--	--

A Chemical-quality samples collected by Santa Clara Valley Water District.

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
MAR										
18...	.94	.47	--	.10	<.01	.03	--	--	--	--
18...	.58	.45	.94	.05	.04	.02	--	--	--	--
18...	.57	.46	--	.06	.02	.03	--	--	--	--
18...	.84	.35	--	.06	.02	.03	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
MAY										
29...	--	--	--	.04	.04	.01	--	--	--	--
29...	.63	.28	.67	--	.07	.01	--	--	--	--
29...	1.2	1.4	--	.02	.03	<.01	--	--	--	--
29...	.37	.39	--	.07	.06	.04	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
SEP										
23...	.76	.54	.76	.02	.01	.00	60	<10	<1	<10
23...	--	.60	--	--	--	--	70	<10	<1	<10
23...	.45	.41	--	--	--	--	70	<10	<1	<10
23...	--	--	--	--	--	--	--	--	--	--
DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	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)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR										
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
MAY										
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
SEP										
23...	<10	<10	<50	<10	20	<.5	<10	<50	<10	60
23...	<10	<10	<50	<10	10	<.5	--	<50	<10	50
23...	<10	<10	<50	<10	20	<.5	--	<50	<10	50
23...	--	--	--	--	--	--	--	--	--	--

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE	MAR 18,80	MAR 18,80	MAR 18,80	MAY 29,80	MAY 29,80
TIME	1145	1200	1215	1041	1050
DEPTH (M)	1	13	20	1	9
TOTAL CELLS/ML	520	370	120	210000	8400
DIVERSITY: DIVISION	1.1	1.3	0.9	0.2	1.0
..CLASS	1.4	1.5	0.9	0.2	1.0
..ORDER	1.4	1.8	0.9	0.2	1.0
...FAMILY	1.4	1.8	0.9	0.2	1.0
....GENUS	1.4	2.0	0.9	0.8	1.0

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										
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	39# 33		--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-
...OOCYSTIS	--	-	--	-	--	-	--	-	52	1
...SCENEDESMACEAE										
....CRUCIGENIA	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	--	-	--	-
..TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	--	-	--	-	--	-	--	-	--	-
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
...VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	110# 21		28	7	--	-	--	-	--	-

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--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME DEPTH (M)	PHYTOPLANKTON									
	MAR 18,80		MAR 18,80		MAR 18,80		MAY 29,80		MAY 29,80 --Continued	
	1145	1	1200	13	1215	20	1041	1	1050	9
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
..CENTRALES										
..COSCONODISCACEAE										
..CYCLOTILLA	350#	66	170#	44	78#	67	--	-	--	-
..MELOSIRA	--	-	14	4	--	-	--	-	--	-
..PENNALES										
..FRAGILARIACEAE										
..ASTERIONELLA	--	-	--	-	--	-	6300	3	3300#	39
..NAVICULACEAE										
..NAVICULA	--	-	28	7	--	-	--	-	--	-
..NITZSCHIA	--	-	--	-	--	-	--	-	--	-
..NITZSCHIA	--	-	--	-	--	-	--	-	--	-
..CHRYSTOPHYCEAE										
..CHRYSONOMADACEAE										
..MALLONADACEAE										
..MALLONAS	--	-	--	-	--	-	--	-	--	-
..OCHROMONADACEAE										
..OCHROMONAS	41	8	14	4	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
..CRYPTOMONADACEAE										
..CRYPTOMONAS	14	3	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
..CHROOCOCCALES										
..CHROOCOCCACEAE										
..AGMENELLUM	--	-	--	-	--	-	--	-	--	-
..ANACYSTIS	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES										
..NOSTOCACEAE										
..ANABAENA	--	-	--	-	--	-	28000	14	--	-
..APHANIZOMENON	--	-	--	-	--	-	170000#	83	5100#	60
..OSCILLATORIA	--	-	120#	33	--	-	--	-	--	-
..OSCILLATORIA	--	-			--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
..EUGLENOPHYCEAE										
..EUGLENALES										
..EUGLENAEAE										
..TRACHELOMONAS	14	3	--	-	--	-	--	-	--	-
DATE	MAY 29,80		SEP 23,80		SEP 23,80		SEP 23,80			
TIME	1100		1100		1115		1125			
DEPTH (M)	210		1		5		18			
TOTAL CELLS/ML	210		2400		680		120			
DIVERSITY: DIVISION	0.0		0.7		1.0		1.4			
..CLASS	0.0		0.8		1.0		1.4			
..ORDER	1.0		0.8		1.6		1.4			
..FAMILY	1.3		0.9		1.8		1.4			
..GENUS	1.3		0.9		2.0		1.4			
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										
..COELASTRACEAE										
..COELASTRUM	90#	44	--	-	--	-	--	-	--	-
..OOCYSTACEAE										
..ANKISTRODESUS	--	-	--	-	--	-	--	-	--	-
..DICTYOSPHAERIUM	--	-	--	-	39	6	--	-	--	-
..OOCYSTIS	13	6	20	1	--	-	--	-	--	-
..SCENEDESMACEAE										
..CRUCIGENIA	--	-	81	3	--	-	52#	44	--	-
..SCENEDESMUS	--	-	--	-	52	8	--	-	--	-
..TETRASPORALES										
..COCCOMYXACEAE										
..ELAKATOTHRIX	--	-	--	-	26	4	--	-	--	-
..PALMELLACEAE										
..SPHAEROCYSTIS	100#	50	--	-	--	-	--	-	--	-
..VOLVOCELES										
..CHLAMYDOMONADACEAE										
..CHLAMYDOMONAS	--	-	20	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 CENTER--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME DEPTH (M) ORGANISM	PHYTOPLANKTON							
	MAY 29,80		SEP 23,80		SEP 23,80		SEP 23,80--Continued	
	1100		1100		1115		1125	
	CELLS	PER-	CELLS	PER-	CELLS	PER-	CELLS	PER-
	/ML	CENT	/ML	CENT	/ML	CENT	/ML	CENT
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCEAE								
....CYCLOTELLA	--	-	2000#	85	26	4	13	11
....MELOSIRA	--	-	--	-	430#	62	--	-
...PENNALES								
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	52	8	--	-
...NAVICULACEAE								
....NAVICULA	--	-	--	-	--	-	--	-
...NITZSCHIAEAE								
....NITZSCHIA	--	-	--	-	26	4	--	-
..CHRYSTOPHYCEAE								
...CHRYSSOMONADALES								
....MALLOMONADACEAE								
...MALLOMONAS	--	-	20	1	--	-	--	-
...OCHROMONADACEAE								
....OCHROMONAS	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOMONADACEAE								
.....CRYPTOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
.....AGMENELLUM	--	-	160	7	--	-	--	-
.....ANACYSTIS	--	-	20	1	13	2	--	-
...HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	52#	44
....APHANIZOMENON	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
....EUGLENACEAE								
.....TRACHELOMONAS	--	-	20	1	26	4	--	-

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 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 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, SOLVED (PER- CENT SATUR- ATION)	LIGHT INCID- ENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
MAR									
18...	0924	.10	--	--	--	--	--	95	--
18...	0925	.50	252	7.7	11.8	9.3	88	14	22.09
18...	0926	1.0	251	7.7	11.8	9.3	88	1.0	22.62
18...	0927	2.0	251	7.7	11.8	9.2	87	--	22.98
18...	0928	3.0	250	7.7	11.8	9.2	87	--	22.98
18...	0929	4.0	250	7.7	11.8	9.2	87	--	22.98
18...	0930	5.0	249	7.7	11.8	9.2	87	--	22.09
18...	0931	6.0	249	7.7	11.8	9.2	87	--	22.09
18...	0932	7.0	248	7.7	11.8	9.2	87	--	22.09
18...	0933	8.0	248	7.7	11.8	9.2	87	--	22.09
18...	0934	9.0	248	7.7	11.8	9.2	87	--	22.09
18...	0935	10.0	248	7.7	11.8	9.2	87	--	22.09
18...	0936	11.0	247	7.7	11.7	9.2	86	--	22.09
18...	0937	12.0	248	7.7	11.7	9.2	86	--	22.09
18...	0938	14.0	248	7.7	11.6	8.9	83	--	22.09
18...	0939	16.0	250	7.7	11.6	8.9	83	--	22.09
18...	0940	18.0	250	7.7	11.6	8.9	83	--	22.09
18...	0941	20.0	250	7.7	11.6	8.9	83	--	22.09
18...	0942	22.0	251	7.7	11.6	8.9	83	--	22.09
18...	0943	24.0	251	7.7	11.5	8.9	83	--	22.09
18...	0944	26.0	252	7.7	11.5	8.8	82	--	22.09
18...	0945	28.0	252	7.7	11.5	8.8	82	--	22.09
18...	0946	29.0	253	7.6	11.5	8.7	81	--	--
18...	1000	1.0	251	7.7	11.8	9.3	88	--	--
18...	1015	11.0	247	7.7	11.7	9.2	86	--	--
18...	1030	26.0	252	7.7	11.5	8.8	82	--	--
MAY									
29...	1154	.10	--	--	--	--	--	61	--
29...	1155	.50	264	8.8	18.4	11.1	119	34	5.09
29...	1156	1.0	264	8.8	18.4	11.1	119	18	5.24
29...	1157	1.5	266	8.8	18.2	11.0	117	7.9	5.39
29...	1158	2.0	266	8.8	17.9	11.0	117	4.0	5.39
29...	1159	2.5	266	8.8	17.8	10.8	115	1.5	5.39
29...	1200	2.9	--	--	--	--	--	1.0	--
29...	1201	3.0	266	8.8	17.8	10.7	114	--	5.39
29...	1202	4.0	267	8.8	17.7	10.4	109	--	5.24
29...	1203	5.0	267	8.8	17.7	10.3	108	--	5.09
29...	1204	6.0	270	8.7	17.3	8.9	94	--	4.43
29...	1205	7.0	277	8.5	16.5	6.7	69	--	3.98
29...	1206	8.0	282	8.4	15.2	5.8	58	--	3.87

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT DAM--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
DATE	TIME							
MAY								
29...	1207	9.0	282	8.3	14.1	6.2	61	5.09
29...	1208	10.0	279	8.2	13.7	6.5	63	6.44
29...	1209	11.0	275	8.2	13.4	6.8	66	8.16
29...	1210	12.0	273	8.1	13.2	6.9	66	9.21
29...	1211	14.0	269	8.1	13.0	7.2	69	10.05
29...	1213	16.0	266	8.1	12.8	7.2	69	11.39
29...	1214	18.0	266	8.1	12.8	7.2	69	11.93
29...	1215	20.0	265	8.1	12.7	7.1	67	12.68
29...	1216	22.0	265	8.0	12.6	7.0	66	13.41
29...	1217	24.0	265	8.0	12.6	6.8	64	14.30
29...	1218	26.0	266	8.0	12.5	6.7	63	15.65
29...	1219	28.0	266	8.0	12.5	6.6	62	16.30
29...	1220	30.0	265	8.0	12.5	6.5	61	17.37
29...	1221	32.0	265	7.9	12.5	6.5	61	17.89
29...	1222	34.0	265	7.9	12.5	6.5	61	18.04
29...	1250	1.0	264	8.8	18.4	11.1	119	---
29...	1300	8.0	282	8.4	15.2	5.8	58	---
29...	1310	32.0	265	7.9	12.5	6.5	61	---
SEP								
23...	1215	.10	424	7.8	21.2	8.2	92	3.67
23...	1216	.50	422	7.8	21.5	8.0	91	3.77
23...	1217	1.0	425	7.8	21.5	8.0	91	3.77
23...	1218	1.5	426	7.8	21.4	8.0	91	3.87
23...	1219	2.0	428	7.8	21.0	7.9	89	3.98
23...	1220	3.0	427	7.8	20.9	7.8	88	3.98
23...	1221	4.0	427	7.8	20.8	7.8	88	3.98
23...	1222	5.0	427	7.8	20.8	7.8	88	4.09
23...	1223	6.0	427	7.8	20.8	7.8	88	4.20
23...	1224	7.0	427	7.8	20.8	7.8	88	4.32
23...	1225	8.0	428	7.8	20.7	7.7	87	4.56
23...	1226	9.0	428	7.8	20.7	7.6	85	4.44
23...	1227	10.0	428	7.8	20.7	7.6	85	4.32
23...	1228	12.0	427	7.7	20.7	7.6	85	4.20
23...	1229	14.0	428	7.7	20.7	7.5	84	4.82
23...	1230	16.0	428	7.7	20.6	7.5	84	5.09
23...	1231	18.0	428	7.7	20.6	7.4	83	5.55
23...	1232	19.0	---	---	---	---	---	7.09
23...	1233	20.0	428	7.7	20.6	7.4	83	8.16
23...	1234	21.0	---	---	---	---	---	8.83
23...	1235	22.0	427	7.6	20.6	6.5	73	9.42
DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT INCID- ENT PERCENT REMAIN- ING AT DEPTH
SEP								
23...	1236	.10	---	---	---	---	---	60
23...	1237	.50	---	---	---	---	---	44
23...	1238	1.0	---	---	---	---	---	30
23...	1239	1.5	---	---	---	---	---	20
23...	1240	2.0	---	---	---	---	---	14
23...	1250	1.0	425	7.8	21.5	8.0	91	---
23...	1300	5.0	427	7.8	20.8	7.8	88	---
23...	1310	18.0	428	7.7	20.6	7.4	83	---
DATE	TIME	SAM- PLING DEPTH (M)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)				
MAR								
18...	1000	1.0	.820	.000				
18...	1015	11.0	.420	.000				
18...	1030	26.0	.000	.000				
MAY								
29...	1250	1.0	34.5	.000				
29...	1300	8.0	6.33	.000				
29...	1310	32.0	.040	.000				
SEP								
23...	1250	1.0	4.08	.000				
23...	1300	5.0	2.63	.000				
23...	1310	18.0	2.73	.000				

## 11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (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 CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
DATE	TIME												
MAR													
18...	A 1000	1.0	251	7.7	11.8	9.3	--	--	110	28	25	12	
18...	A 1015	11.0	247	7.7	11.7	9.2	--	--	110	28	24	12	
18...	A 1030	26.0	252	7.7	11.5	8.8	--	--	120	30	25	12	
18...	1400	.10	--	--	--	--	K14	K23	--	--	--	--	
MAY													
29...	A 1250	1.0	264	8.8	18.4	11.1	--	--	130	30	32	11	
29...	A 1300	8.0	282	8.4	15.2	5.8	--	--	130	32	33	11	
29...	A 1310	32.0	265	7.9	12.5	6.5	--	--	120	22	32	10	
29...	1450	.10	--	--	--	--	<1	<1	--	--	--	--	
SEP													
23...	A 1250	1.0	425	7.8	21.5	8.0	--	--	--	--	--	--	
23...	A 1300	5.0	427	7.8	20.8	7.8	--	--	--	--	--	--	
23...	A 1310	18.0	428	7.7	20.6	7.4	--	--	--	--	--	--	
23...	1630	.10	--	--	--	--	<1	<1	--	--	--	--	
		SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY DIS- SOLVED (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 SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
DATE													
MAR													
18...	13	20	.5	1.7	85	35	8.0	<.1	14	160	.40	.40	
18...	13	20	.5	1.6	85	35	8.0	<.1	14	159	.41	.47	
18...	14	21	.6	1.6	90	35	8.0	.1	14	166	.46	.42	
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	12	17	.5	1.4	98	36	10	.1	12	175	.25	<.01	
29...	9.0	13	.3	1.4	98	34	10	.1	13	171	.25	.14	
29...	10	15	.4	1.3	94	36	10	.1	15	175	.25	.40	
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
23...	--	--	--	--	--	--	--	--	5.9	--	--	--	--
23...	--	--	--	--	--	--	--	--	5.9	--	--	--	--
23...	--	--	--	--	--	--	--	--	6.0	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
		NITRO- GEN, NITRATE TOTAL (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)	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)
DATE													
MAR													
18...	<.010	.01	.01	.53	.53	.54	.54	.08	<.01	.03	--	--	--
18...	<.010	.04	.01	.52	.44	.56	.45	.08	<.01	.03	--	--	--
18...	<.010	.04	.01	.62	.47	.66	.48	.01	.02	.03	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
29...	<.010	.07	.03	2.7	.31	2.8	.34	.06	.04	.02	--	--	--
29...	<.010	.06	.03	.61	.38	.67	.41	.07	.05	.05	--	--	--
29...	<.010	.04	.03	.58	.23	.62	.26	.06	.04	.04	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
23...	--	.00	.01	--	.47	--	.48	--	--	--	70	<10	--
23...	--	.00	.00	.54	.56	.54	.56	--	--	--	60	<10	--
23...	--	.00	.00	--	.51	--	.51	--	--	--	80	<10	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
		CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)	
DATE													
MAR													
18...	--	--	--	--	--	--	--	--	--	--	--	--	
18...	--	--	--	--	--	--	--	--	--	--	--	--	
18...	--	--	--	--	--	--	--	--	--	--	--	--	
18...	--	--	--	--	--	--	--	--	--	--	--	--	
MAY													
29...	--	--	--	--	--	--	--	--	--	--	--	--	
29...	--	--	--	--	--	--	--	--	--	--	--	--	
29...	--	--	--	--	--	--	--	--	--	--	--	--	
29...	--	--	--	--	--	--	--	--	--	--	--	--	
SEP													
23...	<1	<10	<10	<10	<10	<50	<10	10	<.5	<50	<10	60	
23...	<1	<10	<10	<10	<10	<50	<10	10	<.5	<50	<10	50	
23...	<1	<10	<10	<10	<10	<50	<10	20	<.5	<50	<10	50	
23...	--	--	--	--	--	--	--	--	--	--	--	--	

A Chemical-quality samples collected by Santa Clara Valley Water District.

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

11167980 LEXINGTON RESERVOIR NEAR LOS GATOS, CA--Continued

## AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME DEPTH (M) TOTAL CELLS/ML	PHYTOPLANKTON			
	MAR 18,80 1000 1.0 1400	MAR 18,80 1015 11.0 470	MAR 18,80 1030 26.0 83	MAY 29,80 1250 1.0 170000
DIVERSITY: DIVISION	0.2	1.6	0.9	0.4
..CLASS	0.2	1.6	0.9	0.4
..ORDER	0.2	1.7	1.5	0.5
...FAMILY	0.2	1.7	1.5	0.5
....GENUS	0.2	1.7	1.5	0.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHARACIACEAE								
...SCHROEDERIA	--	-	--	-	--	-	--	-
...COELASTRACEAE								
...COELASTRUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
...ANKISTRODESMUS	--	-	14	3	14#	17	--	-
...DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
...OOCYSTIS	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
...SCENEDESMUS	--	-	--	-	--	-	*	0
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	--	-	41	9	41#	50	--	-
..ZYGNEATALES								
...DESMIDIACEAE								
...CLOSTERIUM	--	-	--	-	--	-	--	-
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
...CYCLOTELLA	39	3	180#	38	28#	33	*	0
...MELOSIRA	--	-	--	-	--	-	1200	1
...STEPHANODISCUS	--	-	--	-	--	-	--	-
..PENNALES								
...FRAGILARIACEAE								
...ASTERIONELLA	--	-	--	-	--	-	12000	1
...SYNEDRA	--	-	--	-	--	-	--	-
...NITZSCHACEAE								
...NITZSCHIA	--	-	--	-	--	-	--	-
..CHRYSTOPHYCEAE								
...CHRYSONOMADACEAE								
...OCHROMONADACEAE								
...DINOBRYON	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
...ANACYSTIS	--	-	--	-	--	-	--	-
...HORMOGONALES								
...NOSTOCACEAE								
...ANABAENA	--	-	--	-	--	-	17000	10
...APHANIZOMENON	--	-	--	-	--	-	140000#	82
...OSCILLATORACEAE								
...OSCILLATORIA	1400#	97	220#	47	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
...TRACHELOMONAS	--	-	14	3	--	-	--	-

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 DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE	MAY 29,80	MAY 29,80	SEP 23,80	SEP 23,80
TIME	1300	1310	1300	1310
DEPTH (M)	8.0	32.0	4.0	11.0
TOTAL CELLS/ML	7200	0	720	340
DIVERSITY: DIVISION	1.2	0.0	1.2	1.6
..CLASS	1.2	0.0	1.4	1.6
..ORDER	1.4	0.0	2.1	2.3
...FAMILY	1.5	0.0	2.1	2.6
....GENUS	1.9	0.0	2.1	2.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	39	5	--	-
....COELASTRACEAE								
....COELASTRUM	150	2	--	-	--	-	--	-
....OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	77#	23
....OOCYSTIS	77	1	--	-	--	-	--	-
....SCENEDESMACEAE								
....SCENEDESMUS	77	1	--	-	--	-	--	-
..VOLVOCALES								
....CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	13	2	--	-
..ZYGNEATALES								
....DESMIDIACEAE								
....CLOSTERIUM	--	-	--	-	--	-	13	4
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCACEAE								
....CYCLOTELLA	--	-	--	-	90	13	26	8
....MELOSIRA	280	4	--	-	--	-	--	-
....STEPHANODISCUS	77	1	--	-	--	-	13	4
..PENNALES								
....FRAGILARIACEAE								
....ASTERIONELLA	3500#	49	--	-	100	14	77#	23
....SYNEDRA	*	0	--	-	--	-	--	-
....NITZSCHACEAE								
....NITZSCHIA	--	-	--	-	--	-	26	8
..CHRYSTOPHYCEAE								
....CHRYSONOMONADALES								
....OCHROMONADACEAE								
....DINOBRYON	--	-	--	-	26	4	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	64	9	26	8
...HORMOGONALES								
....NOSTOCACEAE								
....ANABAENA	1000	14	--	-	--	-	77#	23
....APHANIZOMENON	2000#	28	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	390#	54	--	-
....OSCILLATORIA								
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
....EUGLENACEAE								
....TRACHELOMONAS	--	-	--	-	--	-	--	-

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

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



## GUADALUPE RIVER BASIN

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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 mi<sup>2</sup> (378 km<sup>2</sup>).

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 fair. 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, 13,190 acre-ft (16.3 hm<sup>3</sup>) was diverted by San Jose Water Works for urban use and zero acre-ft was diverted by Santa Clara Valley Water District into Alamos percolation ponds from Coyote Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft<sup>3</sup>/s (259 m<sup>3</sup>/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, 7,910 ft<sup>3</sup>/s (224 m<sup>3</sup>/s) Feb. 19, gage height, 13.65 ft (4.161 m); no flow Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.37	1.9	14	1.0	359	2.0	.71	.36	.33	.11	0
2	.07	.41	.56	7.1	.84	389	6.5	.82	.37	104	.12	.37
3	.08	41	.43	2.2	.72	327	7.3	.68	.49	9.5	.18	.90
4	.04	11	1.7	.67	.67	250	12	.66	.35	2.5	.13	.71
5	1.4	.95	.41	.34	.65	464	281	.57	.35	1.2	.09	.75
6	4.1	.35	.38	.19	.68	434	201	.54	.30	.28	.08	.66
7	.36	.48	.72	.08	.72	285	117	.57	.26	.27	.17	1.5
8	2.6	3.8	.31	1.3	.60	206	42	.55	.24	.27	.37	1.5
9	.21	.75	.24	108	.50	187	26	.65	.23	.33	.18	.50
10	.09	.22	.28	62	.45	151	24	2.1	.31	.23	.22	.29
11	.15	.09	3.6	258	.45	149	19	2.3	.75	.24	.14	.20
12	.74	.07	.62	209	.45	121	15	1.5	.33	.25	.08	.13
13	.11	.08	2.3	369	.50	80	13	3.8	.38	.20	.24	.11
14	.35	.25	1.6	319	1.0	74	15	3.3	.30	.27	.22	.08
15	3.2	.41	.60	186	10	88	11	1.6	.27	.20	.30	.06
16	.09	35	.45	83	150	63	13	1.0	2.8	.25	.21	.13
17	.12	60	.40	99	390	57	17	.95	2.5	.28	.03	.12
18	.11	7.6	.48	36	1000	43	10	.91	.33	.22	.04	.16
19	5.8	5.1	73	22	3900	31	7.5	.73	.39	.23	.09	.16
20	14	.36	18	17	1120	25	5.1	.75	.33	.20	.19	.17
21	3.5	4.0	24	14	2370	26	41	.86	.25	.25	.08	.18
22	.62	8.1	7.4	12	1350	23	47	1.2	.35	.23	.05	.09
23	3.6	9.0	287	9.9	688	23	25	.42	5.1	.19	.02	.18
24	.49	.91	499	6.9	559	22	4.1	.31	1.8	.23	.05	.25
25	246	2.4	152	4.0	439	87	6.6	.31	.80	.19	.09	.36
26	13	4.4	33	1.1	353	24	3.0	.41	.30	.17	.23	.41
27	1.8	5.1	19	.53	467	16	2.4	.60	.22	.18	.10	.39
28	.38	4.5	11	4.2	398	13	2.3	.56	.25	.24	.09	.33
29	.24	1.9	6.5	2.8	364	2.7	1.7	.34	.25	.24	.08	.29
30	.30	1.1	132	1.6	---	1.5	.77	.33	.30	.23	.02	6.6
31	.41	---	29	1.1	---	1.2	---	.31	---	.14	.09	---
TOTAL	304.03	209.70	1307.88	1852.01	13567.23	4022.4	978.27	30.34	21.26	123.54	4.09	17.58
MEAN	9.81	6.99	42.2	59.7	468	130	32.6	.98	.71	3.99	.13	.59
MAX	246	60	499	369	3900	464	281	3.8	5.1	104	.37	6.6
MIN	.04	.07	.24	.08	.45	1.2	.77	.31	.22	.14	.02	0
AC-FT	603	416	2590	3670	26910	7980	1940	60	42	245	8.1	35

CAL YR 1979 TOTAL 6233.28 MEAN 17.1 MAX 556 MIN 0 AC-FT 12360  
WTR YR 1980 TOTAL 22438.33 MEAN 61.3 MAX 3900 MIN 0 AC-FT 44510

## 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 mi<sup>2</sup> (23.88 km<sup>2</sup>).

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, Dec. 31 to Jan. 15. Water is diverted for municipal use by San Jose Water Works at diversion dam above station.

AVERAGE DISCHARGE (adjusted for diversion).--47 years, 10.0 ft<sup>3</sup>/s (0.283 m<sup>3</sup>/s), 7,250 acre-ft/yr (8.94 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,730 ft<sup>3</sup>/s (77.3 m<sup>3</sup>/s) Dec. 22, 1955, gage height, 6.40 ft (1.951 m) site and datum then in use, from rating curve extended above 510 ft<sup>3</sup>/s (14.4 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 110 ft<sup>3</sup>/s (3.1 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 24	1500	251 7.11	4.26 1.298	Feb. 19	0515	*1610 45.6	6.89 2.100
Jan. 13	unknown	636 18.0	5.29 1.612	Mar. 5	0130	130 3.68	4.03 1.228
Feb. 16	1830	502 14.2	4.98 1.518				

Minimum daily discharge, 0.39 ft<sup>3</sup>/s (0.011 m<sup>3</sup>/s) Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	.80	1.3	15	6.5	42	8.5	3.1	1.4	1.1	2.1	.48
2	.62	.80	1.3	12	4.4	44	7.8	2.9	.80	1.9	2.0	.69
3	.60	.86	1.3	9.5	3.9	44	7.5	2.7	.82	1.3	1.9	.60
4	.54	.86	1.3	8.0	3.7	40	12	2.6	1.6	1.2	1.9	.39
5	.66	.86	1.4	6.7	3.5	71	30	2.3	.69	1.4	1.6	.45
6	.65	.86	1.5	6.1	4.6	60	17	3.1	.50	1.4	.47	.40
7	.61	.86	1.6	5.9	3.0	48	12	2.0	.65	1.2	.69	.40
8	.62	.86	1.6	12	2.9	44	10	1.9	1.7	1.1	.62	1.2
9	.58	.86	1.6	81	2.7	41	9.5	3.7	1.0	.90	.60	1.2
10	.54	.86	1.7	45	2.6	43	9.3	4.6	2.4	1.1	.56	.87
11	.55	.95	1.8	100	3.1	40	8.0	2.1	2.6	.68	.54	.40
12	.54	.95	1.8	160	2.5	36	7.5	1.9	1.6	1.1	.55	.67
13	.55	.97	1.8	280	2.4	33	6.7	1.9	1.5	2.8	.61	1.3
14	.60	.99	1.8	180	12	23	6.3	2.9	1.4	1.8	.71	1.4
15	.65	.99	1.7	95	46	22	5.9	3.8	1.5	.70	.75	1.4
16	.65	1.6	1.7	63	235	22	7.0	3.7	1.5	.88	.83	1.3
17	.65	2.3	1.7	56	317	19	7.3	3.5	1.6	.95	.73	1.3
18	.64	1.7	1.7	49	368	17	6.4	3.3	2.1	1.1	1.2	1.4
19	1.3	1.5	2.5	41	703	16	4.7	3.7	2.6	1.1	1.4	1.4
20	1.2	1.4	2.5	27	264	15	5.0	2.5	1.5	1.0	.83	1.4
21	.91	1.3	3.3	25	234	16	5.6	1.2	1.6	.97	.75	1.4
22	.80	1.6	2.5	22	120	14	6.3	1.4	2.1	1.2	.71	1.3
23	.78	1.9	38	19	93	13	6.5	1.4	2.1	.99	.62	1.1
24	.83	1.7	99	15	77	13	4.4	1.3	2.1	1.8	.71	1.0
25	11	1.6	45	15	61	16	4.2	1.2	1.6	3.2	.66	1.0
26	1.6	2.1	17	12	51	15	3.9	1.0	2.5	2.4	.43	1.1
27	1.1	1.8	9.6	8.8	54	12	3.7	1.0	2.8	3.0	.41	1.2
28	.95	1.6	6.6	8.9	56	12	3.6	1.0	2.4	3.0	.62	1.3
29	.83	1.5	5.1	8.3	48	9.9	3.6	1.1	2.3	2.0	.43	1.1
30	.80	1.4	26	7.8	---	9.3	3.4	.88	1.4	2.2	.61	.98
31	.80	---	25	6.2	---	8.9	---	.76	---	2.1	.53	---
TOTAL	33.74	38.33	310.7	1400.2	2784.8	859.1	233.6	70.44	50.36	47.57	27.07	30.13
MEAN	1.09	1.28	10.0	45.2	96.0	27.7	7.79	2.27	1.68	1.53	.87	1.00
MAX	11	2.3	99	280	703	71	30	4.6	2.8	3.2	2.1	1.4
MIN	.54	.80	1.3	5.9	2.4	8.9	3.4	.76	.50	.68	.41	.39
AC-FT	67	76	616	2780	5520	1700	463	140	100	94	54	60
(†)	0	0	0	40	124	157	248	228	119	76	49	14
CAL YR 1979 TOTAL	2691.91	MEAN 7.38	MAX 180	MIN .21	AC-FT 5340	† 490						
WTR YR 1980 TOTAL	5886.04	MEAN 16.1	MAX 703	MIN .39	AC-FT 11670	† 1050						

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

## 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 mi<sup>2</sup> (282 km<sup>2</sup>).

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.--20 years, 45.7 ft<sup>3</sup>/s (1.294 m<sup>3</sup>/s), 33,110 acre-ft/yr (40.8 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft<sup>3</sup>/s (286 m<sup>3</sup>/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 ft<sup>3</sup>/s (90.6 m<sup>3</sup>/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 ft<sup>3</sup>/s (28 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	1915	1030	29.2	6.48	1.975	Feb. 19	1200	*6210	176	12.39	3.776
Jan. 13	1615	4110	116	10.39	3.167						

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	48	19	142	27	14	6.7	2.3	.56	.26
2			0	27	18	176	26	13	6.8	4.7	.56	.26
3			0	19	17	292	25	12	6.7	7.6	.56	.27
4			0	16	16	207	25	11	7.1	5.3	.55	.29
5			0	13	15	341	151	11	7.3	3.8	.54	.25
6			0	11	15	578	86	10	7.2	3.2	.53	.23
7			0	10	13	365	51	9.7	7.2	2.8	.47	.23
8			0	9.1	13	260	41	9.2	7.2	2.5	.46	.23
9			0	132	12	197	36	10	7.1	2.2	.39	.20
10			0	285	12	161	33	14	6.9	2.0	.36	.19
11			0	1270	12	137	30	12	6.7	1.8	.36	.19
12			0	1450	11	114	27	11	6.4	1.8	.35	.17
13			0	2160	11	98	25	11	6.2	1.6	.35	.16
14			0	1730	23	88	24	10	6.0	1.5	.36	.16
15			0	690	273	78	23	9.2	5.8	1.4	.35	.15
16			0	399	2020	69	22	8.5	5.4	1.3	.31	.13
17			0	466	2370	63	21	7.8	5.3	1.2	.31	.13
18			0	394	3540	60	20	7.2	4.8	1.1	.32	.13
19			0	232	3340	54	19	6.7	4.7	.99	.31	.12
20			0	145	1670	49	19	6.3	4.5	.99	.30	.11
21			0	102	2940	47	21	6.0	4.2	.91	.30	.12
22			0	77	962	44	23	5.7	3.9	.90	.28	.11
23			0	59	490	41	24	5.5	3.6	.85	.27	.09
24			329	49	311	39	21	5.6	3.4	.78	.27	.08
25			344	42	221	44	19	5.6	3.3	.76	.27	.08
26			108	36	171	42	18	5.7	3.2	.70	.23	.07
27			45	32	152	36	17	5.7	3.1	.68	.22	.06
28			28	29	268	34	16	5.7	3.0	.66	.22	.06
29			21	28	170	31	16	5.7	2.8	.63	.24	.06
30			108	23	---	30	15	5.9	2.5	.61	.26	.03
31		---	99	20	---	28	---	6.3	---	.64	.27	---
TOTAL	0	0	1082	10003.1	19105	3945	921	267.0	159.0	58.20	11.13	4.62
MEAN	0	0	34.9	323	659	127	30.7	8.61	5.30	1.88	.36	.15
MAX	0	0	344	2160	3540	578	151	14	7.3	7.6	.56	.29
MIN	0	0	0	9.1	11	28	15	5.5	2.5	.61	.22	.03
AC-FT	0	0	2150	19840	37890	7820	1830	530	315	115	22	9.2
CAL YR 1979	TOTAL	7777.99	MEAN	21.3	MAX	1130	MIN	0	AC-FT	15430		
WTR YR 1980	TOTAL	35556.05	MEAN	97.1	MAX	3540	MIN	0	AC-FT	70530		

## 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 mi<sup>2</sup> (311 km<sup>2</sup>). 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 hm<sup>3</sup>) 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 hm<sup>3</sup>) Dec. 8, 1950, elevation, 782.5 ft (238.51 m); no contents at times.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 26,680 acre-ft (32.9 hm<sup>3</sup>) Mar. 8, elevation, 781.7 ft (238.27 m); minimum observed, 9,250 acre-ft (11.4 hm<sup>3</sup>) Dec. 24, elevation 749.8 ft (228.55 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 mi<sup>2</sup> (505 km<sup>2</sup>). 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 hm<sup>3</sup>) 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 hm<sup>3</sup>) 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, 91,650 acre-ft (113 hm<sup>3</sup>) April 26, elevation, 624.9 ft (190.48 m); minimum observed, 20,760 acre-ft (25.6 hm<sup>3</sup>) Oct. 24, elevation, 538.6 ft (164.15 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY  
STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Coyote Lake	Anderson Lake
Sept. 30, 1979.....	14030	21250
Oct. 31.....	11190	21090
Nov. 30.....	9730	21900
Dec. 31.....	10870	21740
Jan. 31, 1980.....	19950	31710
Feb. 29.....	22630	79890
Mar. 31.....	23680	89210
Apr. 30.....	23680	90840
May 31.....	23680	86780
June 30.....	23600	82730
July 31.....	23360	78830
Aug. 31.....	22870	74130
Sept. 30.....	16380	75910

## 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 mi<sup>2</sup> (508 km<sup>2</sup>).

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).--74 years, 62.8 ft<sup>3</sup>/s (1.778 m<sup>3</sup>/s), 45,500 acre-ft/yr (56.1 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft<sup>3</sup>/s (708 m<sup>3</sup>/s) probably Mar. 7, 1911 (record furnished by Duryea, Haehl, and Gilman); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 107 ft<sup>3</sup>/s (3.03 m<sup>3</sup>/s) Feb. 25, gage height, 2.55 ft (0.777 m); minimum daily 1.4 ft<sup>3</sup>/s (0.040 m<sup>3</sup>/s) Apr. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	15	12	12	9.0	5.6	7.6	32	50	49	58	57
2	49	12	12	12	9.0	6.3	8.3	35	50	57	59	57
3	50	12	12	12	9.0	5.9	6.2	40	50	57	59	56
4	50	12	12	12	9.0	6.0	6.2	38	51	57	59	53
5	47	12	11	12	8.5	6.6	6.8	38	50	57	58	53
6	44	11	11	12	10	6.5	6.2	38	53	57	56	54
7	44	11	11	12	9.9	6.1	6.0	36	52	56	66	56
8	43	11	12	12	10	5.8	5.8	41	52	57	72	56
9	43	11	12	12	10	5.8	5.8	44	52	57	61	56
10	43	11	12	12	10	5.8	5.8	44	54	56	62	56
11	43	11	11	12	10	5.8	5.7	43	55	56	62	54
12	44	11	11	13	10	5.8	5.7	46	55	57	61	54
13	42	11	10	13	10	5.8	6.1	51	55	56	62	55
14	41	9.6	10	13	10	5.8	6.1	53	55	55	62	56
15	42	9.6	11	13	11	5.8	6.2	57	57	53	63	56
16	42	10	10	13	11	5.6	6.1	62	57	53	63	55
17	42	10	10	13	11	5.5	6.1	62	57	52	62	55
18	42	10	10	12	12	5.5	6.0	62	57	53	60	56
19	43	11	10	12	14	5.5	6.1	61	59	53	60	56
20	43	11	11	12	9.3	5.7	6.2	60	60	54	60	56
21	43	11	11	12	5.6	5.8	5.1	60	57	52	59	56
22	31	11	11	12	4.7	5.8	1.4	60	56	51	59	56
23	23	11	12	8.7	4.6	5.7	12	60	60	54	59	57
24	23	11	13	5.7	4.5	5.6	32	58	61	58	59	61
25	23	11	13	6.8	23	5.9	32	59	60	57	59	61
26	23	11	12	9.0	4.3	5.5	32	59	60	58	57	61
27	23	11	12	9.0	5.9	5.3	32	57	59	58	57	61
28	23	11	12	9.0	5.9	5.1	33	51	61	59	55	61
29	23	11	12	9.0	5.9	5.1	32	51	51	60	55	61
30	20	11	12	9.0	---	5.1	32	51	44	60	57	61
31	18	---	12	9.0	---	5.0	---	50	---	59	57	---
TOTAL	1159	332.2	353	345.2	267.1	177.1	368.5	1559	1650	1728	1858	1702
MEAN	37.4	11.1	11.4	11.1	9.21	5.71	12.3	50.3	55.0	55.7	59.9	56.7
MAX	50	15	13	13	23	6.6	33	62	61	60	72	61
MIN	18	9.6	10	5.7	4.3	5.0	1.4	32	44	49	55	53
AC-FT	2300	659	700	685	530	351	731	3090	3270	3430	3690	3380
CAL YR 1979	TOTAL	13617.51	MEAN	37.3	MAX	81	MIN	.01	AC-FT	27010		
WTR YR 1980	TOTAL	11499.10	MEAN	31.4	MAX	72	MIN	1.4	AC-FT	22810		

## COYOTE CREEK BASIN

## 11172100 UPPER PENITENCIA CREEK AT SAN JOSE, CA

LOCATION.--Lat 37°23'43", long 121°49'38", on north boundary of San Jose Pala Grant, Santa Clara County, Hydrologic Unit 18050003, on left bank at downstream side of Dorel Drive bridge, 0.1 mi (0.2 km) upstream from Dutard Creek near northeast limits of San Jose.

DRAINAGE AREA.--21.5 mi<sup>2</sup> (55.7 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Concrete control since Sept. 12, 1963. Datum of gage is 265.30 ft (80.863 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 3, 1962, at site 0.4 mi (0.6 km) downstream at different datum.

REMARKS.--Records good. Flow partly regulated by Cherry Flat Reservoir 5 mi (8 km) upstream, capacity, 500 acre-ft (616,000 m<sup>3</sup>).

AVERAGE DISCHARGE.--19 years, 4.95 ft<sup>3</sup>/s (0.140 m<sup>3</sup>/s), 3,590 acre-ft/yr (4.43 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,700 ft<sup>3</sup>/s (48.1 m<sup>3</sup>/s) Feb. 19, 1980, gage height, 6.41 ft (1.954 m) in gage well, 7.8 ft (2.38 m) from outside gage, from rating curve extended above 360 ft<sup>3</sup>/s (10.2 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1935, 2,100 ft<sup>3</sup>/s (59.5 m<sup>3</sup>/s) Apr. 2, 1958, from information furnished by Santa Clara Valley Water District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,700 ft<sup>3</sup>/s (48.1 m<sup>3</sup>/s) Feb. 19 (0845 hrs), gage-height, 6.41 ft (1.954 m), and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 13	2100	735	20.8	5.44	1.658
Feb. 19	0845	*1700	48.1	6.41	1.954
Mar. 6	0645	101	2.86	4.00	1.219

Minimum daily discharge, 0.09 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) Oct. 1, Aug. 1, 2, 4, 6, Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.23	.32	2.4	2.2	16	3.1	1.7	.96	.46	.09	.37
2	.18	.23	.32	2.0	2.1	16	3.0	1.6	.96	1.2	.09	.38
3	.19	.48	.32	1.8	2.0	17	2.8	1.4	.96	.87	.10	.22
4	.12	.39	.30	1.7	1.9	18	2.9	1.3	1.1	.66	.09	.12
5	.12	.32	.28	1.5	1.9	44	19	1.3	1.0	.57	.12	.13
6	.12	.33	.32	1.3	1.8	71	10	1.2	1.0	.52	.09	.13
7	.12	.28	.32	1.2	2.1	47	7.1	1.2	.92	.50	.10	.14
8	.14	.27	.32	1.1	1.7	33	5.7	1.1	.88	.47	.11	.15
9	.13	.26	.32	3.5	1.4	25	4.8	1.2	.85	.48	.11	.13
10	.11	.24	.31	9.4	1.3	19	4.3	1.9	.84	.45	.12	.13
11	.10	.23	.27	26	1.3	19	3.9	1.6	1.3	.42	.11	.13
12	.11	.22	.32	39	1.3	15	3.4	1.6	1.2	.40	.11	.15
13	.10	.23	.32	105	1.3	12	3.1	1.6	1.1	.41	.12	.13
14	.11	.22	.32	95	2.1	11	2.9	1.5	1.0	.40	.12	.15
15	.12	.23	.35	31	7.1	11	2.8	1.3	.96	.39	.11	.14
16	.14	.45	.35	27	24	8.6	2.7	1.2	.95	.35	.20	.14
17	.14	.71	.32	26	37	7.7	2.4	1.1	.93	.33	.39	.13
18	.14	.37	.32	25	112	7.1	2.3	1.0	.90	.32	.45	.14
19	.49	.30	.45	18	545	6.1	2.1	1.0	.89	.32	.42	.14
20	.49	.28	.43	14	197	5.3	2.4	.95	.88	.30	.40	.14
21	.30	.28	.58	11	294	5.2	3.8	.96	.83	.23	.39	.15
22	.25	.35	.71	8.3	136	4.9	4.3	.92	.76	.21	.38	.12
23	.22	.32	.96	6.2	72	4.3	4.3	.89	.76	.21	.38	.10
24	.20	.35	15	5.5	50	3.9	3.1	.92	.76	.21	.29	.09
25	1.3	.36	16	5.1	40	8.7	2.5	.91	.75	.20	.22	.10
26	.46	.54	5.9	3.7	28	7.7	2.2	.93	.73	.19	.18	.11
27	.33	.40	3.1	3.3	22	5.1	2.1	.88	.69	.17	.15	.12
28	.29	.35	2.0	3.1	35	4.2	2.0	.87	.57	.15	.15	.13
29	.25	.34	1.6	2.9	20	3.7	1.9	.96	.47	.13	.15	.12
30	.23	.32	2.7	2.5	---	3.8	1.8	.96	.46	.12	.25	.10
31	.23	---	2.6	2.3	---	3.9	---	.96	---	.11	.35	---
TOTAL	7.32	9.88	57.73	485.8	1643.5	464.2	118.7	36.91	26.36	11.75	6.34	4.43
MEAN	.24	.33	1.86	15.7	56.7	15.0	3.96	1.19	.88	.38	.20	.15
MAX	1.3	.71	16	105	545	71	19	1.9	1.3	1.2	.45	.38
MIN	.09	.22	.27	1.1	1.3	3.7	1.8	.87	.46	.11	.09	.09
AC-FT	15	20	115	964	3260	921	235	73	52	23	13	8.8
CAL YR 1979	TOTAL	870.90	MEAN 2.39	MAX 62	MIN 0	AC-FT 1730						
WTR YR 1980	TOTAL	2872.92	MEAN 7.85	MAX 545	MIN .09	AC-FT 5700						

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 mi<sup>2</sup> (199.7 km<sup>2</sup>).

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.--12 years, 49.2 ft<sup>3</sup>/s (1.393 m<sup>3</sup>/s), 35,650 acre-ft/yr (44.0 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,600 ft<sup>3</sup>/s (187 m<sup>3</sup>/s) Feb. 19, 1980, gage height, 12.36 ft (3.767 m); minimum daily, 0.11 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) July 28-30, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft<sup>3</sup>/s (23 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	2045	1040	29.5	7.29	2.222	Feb. 17	0200	2320	65.7	8.96	2.731
Jan. 11	1430	1110	31.4	7.40	2.256	Feb. 19	1145	*6600	187	12.36	3.767
Jan. 13	2115	5440	154	11.60	3.536						

Minimum daily discharge, 0.42 ft<sup>3</sup>/s (0.012 m<sup>3</sup>/s) Oct. 5, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.43	2.2	4.8	64	22	128	18	23	11	3.1	2.1	1.2
2	.49	2.2	4.3	41	20	127	17	22	10	4.3	1.9	1.3
3	.49	2.4	4.1	30	19	194	16	21	10	5.3	1.9	1.3
4	.43	2.6	3.8	24	18	168	16	20	10	4.6	2.0	1.3
5	.42	4.9	3.5	19	17	297	190	19	10	4.0	2.0	1.3
6	.43	3.8	3.3	17	17	450	100	19	9.8	3.8	1.9	1.3
7	.42	3.3	3.1	15	19	309	82	18	9.0	3.5	1.8	1.3
8	.44	3.0	3.1	13	17	225	66	17	8.7	3.3	1.8	1.3
9	.47	2.8	3.2	31	15	174	56	18	8.4	3.5	1.7	1.3
10	.48	2.8	3.3	260	15	142	50	23	8.0	3.4	1.7	.94
11	.52	2.6	2.9	805	14	128	44	19	7.8	3.2	1.6	.70
12	.53	2.6	2.8	1300	17	111	39	19	7.8	3.0	1.6	.70
13	.58	2.5	2.8	1960	90	93	35	18	7.6	3.1	1.6	.67
14	.52	2.4	2.8	1460	210	83	32	17	7.2	3.1	1.6	.71
15	.52	2.3	2.8	490	344	77	30	16	6.8	3.0	1.5	.83
16	.54	2.5	2.6	299	1180	68	28	16	6.3	2.8	1.5	.76
17	.56	3.6	2.6	247	1460	61	27	14	5.8	2.8	1.5	.73
18	.53	7.6	2.6	228	2570	57	26	14	5.6	2.8	1.5	.76
19	1.2	4.9	2.8	156	3470	53	24	14	5.5	2.8	1.5	.76
20	1.4	3.9	3.6	111	1250	45	33	13	5.3	2.8	1.5	.80
21	2.9	3.4	4.8	84	2280	38	37	12	4.8	2.8	1.3	.83
22	3.6	3.2	8.9	65	789	32	38	12	4.5	2.9	1.2	.78
23	3.0	3.4	8.1	53	420	29	37	12	4.4	2.8	1.3	.76
24	2.7	4.6	443	46	279	27	33	12	4.3	2.7	1.3	.87
25	3.3	5.1	348	43	202	30	30	12	4.3	2.5	1.3	.95
26	5.0	19	114	37	157	31	29	12	4.2	2.4	1.2	.90
27	4.5	18	51	35	138	26	27	12	4.0	2.5	1.1	.94
28	3.4	9.5	32	31	247	23	26	12	3.6	2.3	1.2	.97
29	2.8	6.6	23	29	155	21	25	12	3.3	2.2	1.2	.90
30	2.6	5.2	24	26	---	20	24	11	3.2	2.1	1.2	.88
31	2.4	---	84	24	---	19	---	11	---	2.2	1.3	---
TOTAL	47.60	142.9	1205.6	8043	15451	3286	1235	490	201.2	95.6	47.8	28.74
MEAN	1.54	4.76	38.9	259	533	106	41.2	15.8	6.71	3.08	1.54	.96
MAX	5.0	19	443	1960	3470	450	190	23	11	5.3	2.1	1.3
MIN	.42	2.2	2.6	13	14	19	16	11	3.2	2.1	1.1	.67
AC-FT	94	283	2390	15950	30650	6520	2450	972	399	190	95	57
CAL YR 1979 TOTAL	11828.25			MEAN 32.4	MAX 950	MIN .42	AC-FT 23460					
WTR YR 1980 TOTAL	30274.44			MEAN 82.7	MAX 3470	MIN .42	AC-FT 60050					

## ALAMEDA CREEK BASIN

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 Valley Community Services District (VCSD) wasteway, 0.7 mi (1.1 km) upstream from Arroyo Mocho, 3 mi (5 km) northwest of Pleasanton.

DRAINAGE AREA.--40.8 mi<sup>2</sup> (105.7 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to September 1980.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 320 ft (98 m) from topographic map. Prior to August 29, 1979, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for period of no gage-height record, May 15 to Aug. 4, which are poor. No regulation or large diversion above station.

EXTREMES FOR CURRENT PERIOD.--Peak discharges above base of 500 ft<sup>3</sup>/s (14 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	1715	575	16.3	5.49	1.673	Feb. 16	1945	1530	43.3	7.99	2.435
Jan. 13	1945	*4340	123	13.40	4.084	Feb. 19	0530	unknown		unknown	

Minimum daily discharge, 0.27 ft<sup>2</sup>/s (0.008 m<sup>3</sup>/s) Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.47	1.0	1.0	12	4.3	20	7.1	4.1	3.3	2.2	1.8	1.4
2	.45	1.4	.99	5.8	4.3	85	6.8	3.6	2.8	10	1.8	1.7
3	.39	1.8	.99	4.7	4.1	46	6.0	4.0	2.4	4.5	1.9	1.8
4	.42	4.3	.94	4.3	4.5	26	12	3.6	2.7	2.5	2.4	1.6
5	.36	2.7	.93	4.1	4.5	169	85	3.5	2.7	2.2	2.2	1.6
6	.33	1.3	.95	4.0	4.1	133	9.6	3.8	2.5	2.1	1.8	1.3
7	.32	1.2	.84	4.2	3.9	35	7.1	3.5	2.3	2.1	2.0	1.3
8	.41	1.5	.76	4.7	3.9	26	6.5	3.6	2.7	2.0	1.8	1.7
9	.43	1.2	.84	33	3.9	22	6.1	9.6	2.3	1.9	1.8	2.5
10	.38	1.0	.93	16	3.5	20	6.0	5.3	2.2	2.0	1.7	1.6
11	.52	.95	.93	277	4.3	18	5.9	3.4	2.0	2.0	2.0	1.5
12	.36	1.0	.76	483	4.1	16	5.2	3.7	1.9	1.8	1.8	1.8
13	.29	1.0	.92	1220	3.7	15	5.1	3.5	2.2	1.8	1.6	1.7
14	.27	1.1	1.0	361	47	16	4.8	3.2	2.1	1.7	2.1	1.5
15	.35	1.0	1.0	88	169	16	4.6	3.1	2.3	1.8	1.7	1.5
16	.34	1.8	.97	67	576	13	4.4	3.4	2.2	1.9	1.6	1.5
17	.65	17	.98	52	343	12	4.5	3.0	2.1	1.8	1.7	1.5
18	.44	1.7	1.7	28	330	12	5.0	3.2	1.9	1.8	2.0	1.5
19	44	1.3	15	16	1490	10	4.8	3.4	1.7	1.6	1.8	1.8
20	6.4	1.2	3.3	13	359	9.6	6.7	3.3	2.2	1.5	1.8	1.7
21	1.7	1.1	17	10	600	9.6	14	3.6	2.1	2.0	1.7	1.7
22	1.3	6.4	3.5	7.6	200	8.9	13	3.4	2.2	1.9	1.7	1.9
23	1.1	5.1	70	7.0	90	8.6	7.8	3.5	2.0	1.8	1.7	1.6
24	1.0	2.0	253	6.5	40	8.3	5.4	4.5	2.1	1.7	1.4	1.5
25	108	4.0	150	6.5	35	11	4.8	7.0	2.4	1.7	2.4	1.7
26	2.8	9.0	13	5.6	25	9.9	4.5	3.5	2.2	1.6	1.7	1.7
27	1.4	1.5	7.1	5.4	99	7.6	4.4	3.0	2.2	1.5	1.7	1.6
28	1.2	1.2	5.3	4.6	76	7.4	4.2	3.2	2.2	1.5	1.7	1.9
29	1.1	1.1	4.5	4.6	24	7.1	4.5	3.0	2.0	1.7	1.7	2.1
30	.97	1.0	26	4.1	---	6.8	4.4	3.2	1.9	1.6	1.7	1.7
31	1.0	---	30	3.9	---	6.5	---	3.0	---	1.7	1.4	---
TOTAL	179.15	110.25	615.13	2763.6	4556.1	811.3	270.2	118.7	67.8	67.9	56.1	49.9
MEAN	5.78	3.68	19.8	89.1	157	26.2	9.01	3.83	2.26	2.19	1.81	1.66
MAX	108	18	253	1220	1490	169	85	9.6	3.3	10	2.4	2.5
MIN	.27	.95	.76	3.9	3.5	6.5	4.2	3.0	1.7	1.5	1.4	1.3
AC-FT	355	219	1220	5480	9040	1610	536	235	134	135	111	99

WTR YR 1980 TOTAL 9666.13 MEAN 26.4 MAX 1490 MIN .27 AC-FT 19170



11174600 ALAMO CANAL NEAR PLEASANTON, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1975 to current year.

CHEMICAL ANALYSES: Water 1975 to current year.

SPECIFIC CONDUCTANCE: October 1979 to September 1980.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1979 to September 1980.

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

REMARKS.--Difference between recorder values before adjustment and field measurement values exceeded  $\pm 10$  percent micromhos for specific conductance at times during the year.

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,980 micromhos Oct. 17; minimum recorded 172 micromhos Feb. 19.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
DEC 19...	1100	44	290	7.4	9.5	87	42	21	8.4
JAN 12...	1230	--	255	--	--	70	0	16	7.3
FEB 17...	1720	--	380	--	13.5	130	16	29	13
MAR 04...	1015	--	810	--	11.5	280	41	68	27
13...	1600	--	1200	--	17.5	380	95	93	37
APR 01...	1230	--	1240	8.2	18.5	400	95	94	39
14...	1430	--	1250	8.2	23.0	400	110	95	39
29...	1330	--	1070	7.7	22.0	460	130	110	44
JUL 24...	1330	--	1500	--	26.0	440	110	100	46

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 SiO2)
DEC 19...	23	47	1.1	2.3	45	40	27	.1	9.7
JAN 12...	30	47	1.6	2.7	82	35	13	.3	13
FEB 17...	37	38	1.4	2.3	110	54	20	.2	18
MAR 04...	68	34	1.8	2.4	240	110	99	.3	22
13...	100	36	2.2	2.6	290	170	96	.4	22
APR 01...	120	40	2.6	2.2	300	170	130	.4	12
14...	120	39	2.6	2.5	290	170	130	.4	15
29...	130	38	2.7	2.4	330	170	140	.2	20
JUL 24...	140	41	2.9	1.6	330	150	190	.2	22

DATE	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, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
DEC 19...	212	166	.29	25.4	1.2	140	--	170
JAN 12...	180	170	.24	--	.78	220	150	2
FEB 17...	267	244	.36	--	.84	190	90	8
MAR 04...	547	507	.74	--	1.2	300	30	40
13...	691	701	.94	--	1.1	370	20	40
APR 01...	765	752	1.04	--	.73	470	20	70
14...	790	751	1.07	--	.85	520	10	70
29...	843	821	1.15	--	1.1	580	190	110
JUL 24...	885	851	1.20	--	.46	720	40	170

OCTOBER				NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1550	1420	1470	1670	1580	1640	---	---	---	---	---	---
2	1490	1360	1420	1640	1490	1590	---	---	---	---	---	---
3	1500	1420	1450	1500	679	1080	---	---	---	---	---	---
4	1560	1500	1550	998	720	834	---	---	---	---	---	---
5	1570	1510	1550	1210	837	993	---	---	---	---	---	---
6	1630	1530	1580	1430	1220	1360	---	---	---	---	---	---
7	1660	1590	1630	1500	1150	1440	---	---	---	---	---	---
8	1690	1610	1660	1540	1240	1420	1520	1460	1490	---	---	---
9	1650	1520	1590	1430	1210	1300	1520	1470	1500	---	---	---
10	1640	1570	1610	1510	1430	1470	1550	1500	1530	---	---	---
11	1680	1580	1640	1520	1480	1500	1570	1470	1510	---	---	---
12	1620	1460	1530	1540	1490	1520	1590	1400	1490	---	---	---
13	1730	1620	1660	1520	1440	1480	1620	1450	1560	---	---	---
14	1740	1630	1700	1540	1490	1520	1540	1290	1450	---	---	---
15	1750	1720	1730	1550	1490	1530	1400	1280	1350	---	---	---
16	1730	1590	1660	1530	296	1240	1430	1270	1360	---	---	---
17	1980	1320	1540	736	736	504	1320	906	1210	---	---	---
18	1600	1200	1470	1120	756	979	---	---	---	---	---	---
19	1630	730	904	1270	1090	1180	---	---	---	---	---	---
20	1140	731	893	1340	1270	1300	---	---	---	---	---	---
21	1410	1140	1290	1360	1320	1340	---	---	---	---	---	---
22	1500	1370	1460	1390	446	1060	---	---	---	---	---	---
23	1580	1500	1550	830	412	601	---	---	---	---	---	---
24	1610	1560	1590	1220	830	985	---	---	---	---	---	---
25	1590	591	858	972	444	816	---	---	---	---	---	---
26	1300	801	1090	808	394	591	---	---	---	---	---	---
27	1510	1300	1410	1100	808	968	---	---	---	---	---	---
28	1600	1510	1570	1230	1100	1180	---	---	---	---	---	---
29	1580	1480	1540	1310	1230	1280	---	---	---	---	---	---
30	1630	1570	1600	1360	1310	1340	---	---	---	1520	1480	1500
31	1670	1610	1640	---	---	---	---	---	---	1540	1460	1500
MONTH	1980	591	1480	1670	296	1200	---	---	---	---	---	---
FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1510	1430	1480	---	---	---	---	---	---	1140	1050	1100
2	1470	1430	1450	---	---	---	---	---	---	1130	1030	1090
3	1520	1430	1480	---	---	---	---	---	---	1110	1030	1070
4	1490	1250	1400	---	---	---	---	---	---	1130	1020	1080
5	1340	1270	1300	---	---	---	---	---	---	1160	1020	1080
6	1410	1340	1380	---	---	---	---	---	---	1090	1020	1050
7	1460	1370	1420	---	---	---	---	---	---	1120	1020	1090
8	1530	1420	1470	---								



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 mi<sup>2</sup> (98.9 km<sup>2</sup>).

## 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.--35 years, 4.37 ft<sup>3</sup>/s (0.124 m<sup>3</sup>/s), 3,170 acre-ft/yr (3.91 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 1,680 ft<sup>3</sup>/s (47.6 m<sup>3</sup>/s) Mar. 5, 1978, gage height, 7.66 ft (2.335 m), from rating curve extended above 270 ft<sup>3</sup>/s (7.65 m<sup>3</sup>/s); maximum daily discharge, 1,000 ft<sup>3</sup>/s (28.3 m<sup>3</sup>/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 ft<sup>3</sup>/s (53.2 m<sup>3</sup>/s), by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 90 ft<sup>3</sup>/s (2.5 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 13	2300	502	14.2	7.69	2.344
Feb. 19	1215	*1210	34.3	9.14	2.786

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	3.3	1.0	7.8	3.3	1.8	1.1	.29	.08	.03
2			0	2.1	1.0	9.2	3.2	1.8	.93	.49	.08	.03
3			0	1.5	1.2	20	3.1	1.8	.84	.87	.08	.03
4			0	.95	1.2	14	3.2	1.9	.84	1.0	.08	.03
5			0	.64	1.2	25	13	1.7	.84	.66	.07	.03
6			0	.48	.97	27	8.2	1.7	.84	.49	.06	.03
7			0	.26	.87	21	5.0	1.8	.81	.34	.06	.03
8			0	.16	.77	24	4.2	1.7	.72	.27	.04	.03
9			0	1.0	.77	15	3.8	1.7	.72	.25	.02	.02
10			0	1.6	.77	12	3.6	2.6	.62	.27	.01	.02
11			0	60	.77	10	3.3	2.6	.53	.23	.02	.02
12			0	98	.77	8.5	3.1	2.4	.53	.23	.02	.02
13			0	112	.77	7.2	3.0	2.4	.46	.24	.02	.02
14			0	115	1.0	6.6	2.9	2.3	.45	.21	.02	.02
15			0	26	4.2	6.1	2.7	2.0	.45	.24	.03	.02
16			0	16	67	5.4	2.7	1.9	.39	.21	.03	.02
17			0	13	145	5.2	2.7	2.0	.38	.20	.02	.02
18			0	11	220	5.0	2.6	1.8	.33	.15	.02	.02
19			0	8.2	542	4.6	2.5	1.8	.33	.15	.03	.02
20			0	5.4	178	4.3	2.0	1.6	.33	.13	.03	.02
21			0	4.0	233	4.2	2.9	1.4	.32	.11	.03	.02
22			0	3.2	98	4.1	3.3	1.2	.29	.11	.03	.02
23			0	2.6	46	3.9	3.4	1.3	.28	.09	.03	.02
24			.95	2.2	25	3.8	3.0	1.4	.28	.08	.03	.02
25			26	2.0	15	4.3	2.7	1.6	.28	.09	.03	.02
26			9.3	1.8	11	5.1	2.5	1.7	.28	.09	.03	.02
27			2.3	1.7	10	4.1	2.5	1.8	.33	.08	.03	.02
28			.99	1.6	13	3.8	2.5	1.4	.31	.09	.03	.02
29			.43	1.5	8.3	3.5	2.4	.97	.27	.08	.03	.02
30			.68	1.4	---	3.4	2.0	1.1	.29	.08	.03	.02
31		---	3.2	1.2	---	3.1	---	1.1	---	.08	.03	---
TOTAL	0	0	43.85	499.79	1628.56	281.2	105.3	54.27	15.37	7.90	1.15	.68
MEAN	0	0	1.41	16.1	56.2	9.07	3.51	1.75	.51	.25	.037	.023
MAX	0	0	26	115	542	27	13	2.6	1.1	1.0	.08	.03
MIN	0	0	0	.16	.77	3.1	2.0	.97	.27	.08	.01	.02
AC-FT	0	0	87	991	3230	558	209	108	30	16	2.3	1.3
CAL YR 1979	TOTAL	741.24	MEAN	2.03	MAX	97	MIN	0	AC-FT	1470		
WTR YR 1980	TOTAL	2638.07	MEAN	7.21	MAX	542	MIN	0	AC-FT	5230		

## ALAMEDA CREEK BASIN

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11176000 ARROYO MOCHO NEAR LIVERMORE, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

CHEMICAL ANALYSES: December 1979 to September 1980.

SPECIFIC CONDUCTANCE: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1979 to current year.

INSTRUMENTATION--Water-quality monitor since January 1979.

REMARKS.--Difference between recorder values before adjustment and field measurement values exceeded  $\pm 10$  percent micromhos for specific conductance at times during the year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,630 micromhos Sept. 11, 16, 1979; minimum recorded, 183 micromhos Feb. 21, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,630 micromhos Sept. 11, 16; minimum recorded, 183 micromhos Feb. 21.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)
DEC 27...	1030	--	--	--	460	84	39	89	46	50	.9	--
JAN 12...	1030	360	--	--	160	16	18	27	15	41	.5	2.2
FEB 17...	1415	270	--	11.0	120	11	17	19	13	19	.5	2.1
MAR 04...	0915	490	--	10.5	240	29	28	41	21	16	.6	2.5
13...	1330	570	--	14.5	280	29	31	49	24	16	.6	2.6
APR 01...	0945	770	7.9	12.0	360	30	37	65	32	16	.7	2.9
14...	1100	805	7.7	18.0	370	18	37	67	35	17	.8	3.2
29...	1130	900	8.0	15.0	440	60	46	79	37	15	.8	3.2

DATE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
DEC 27...	--	--	--	--	11	--	569	.79	--	--	<10	3
JAN 12...	140	34	13	.1	10	210	207	.29	.81	350	40	7
FEB 17...	110	22	7.1	.1	10	188	159	.26	.51	210	160	6
MAR 04...	210	41	20	.2	13	292	296	.40	.54	360	20	3
13...	250	47	20	.2	10	337	336	.46	.22	410	20	5
APR 01...	330	62	30	.2	8.8	433	438	.59	.17	540	10	8
14...	350	61	30	.2	11	477	457	.65	.28	560	20	10
29...	380	63	35	.2	12	499	505	.68	.15	650	80	20

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)
JAN 02...	1030	.10	2040	8.3	8.2	330	0	55	46
12...	1100	--	670	--	--	100	0	20	13
FEB 17...	1500	--	2130	--	13.0	240	0	49	28
MAR 04...	1124	--	2300	--	11.5	250	0	46	34
13...	1400	--	4440	--	18.5	480	95	93	59

## ALAMEDA CREEK BASIN

11176000 ARROYO MOCHO NEAR LIVERMORE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
JAN 02...	360	85	8.7	4.0	470	140	320	1.4	14
12...	140	84	6.0	4.8	180	46	120	.7	13
FEB 17...	360	76	10	7.9	240	59	490	.6	17
MAR 04...	390	76	11	7.8	280	66	510	.6	19
13...	770	77	15	12	380	89	1200	1.2	3.6

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
JAN 02...	1230	1250	1.67	.33	5.0	6200	30	40
12...	491	478	.67	--	2.3	2100	270	7
FEB 17...	1210	1180	1.65	--	2.2	10000	170	0
MAR 04...	1220	1260	1.66	--	2.1	10000	150	20
13...	2480	2510	3.37	--	4.9	28000	20	20

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	945	909	925
2							---	---	---	990	945	970
3							---	---	---	1020	990	1000
4							---	---	---	1040	1010	1030
5							---	---	---	1060	1040	1050
6							---	---	---	1080	1060	1070
7							---	---	---	1090	1080	1080
8							---	---	---	1090	1050	1080
9							---	---	---	1050	915	968
10							---	---	---	909	796	859
11							---	---	---	---	---	---
12							---	---	---	---	---	---
13							---	---	---	---	---	---
14							---	---	---	---	---	---
15							---	---	---	---	---	---
16							---	---	---	---	---	---
17							---	---	---	---	---	---
18							---	---	---	576	541	558
19							---	---	---	583	553	564
20							---	---	---	621	573	595
21							---	---	---	679	621	667
22							---	---	---	705	679	695
23							---	---	---	728	705	714
24							---	---	---	736	709	722
25							834	603	664	748	736	742
26							834	683	764	760	748	753
27							1010	838	921	769	760	762
28							1090	990	1040	787	769	779
29							1140	1080	1110	796	787	792
30							1170	1010	1070	810	796	803
31							983	903	929	819	810	813
MONTH							---	---	---	---	---	---

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SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	FEBRUARY			MARCH			APRIL			MAY			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
1	824	814	820	526	511	520	712	679	701	906	879	890	
2	829	824	825	535	524	531	712	679	701	906	883	893	
3	834	824	829	529	438	472	720	683	704	906	883	894	
4	838	834	836	490	449	465	720	683	705	911	888	897	
5	838	834	837	503	451	473	690	522	609	906	892	896	
6	848	838	842	469	457	463	665	619	644	902	859	877	
7	854	848	851	506	483	492	693	665	682	881	854	869	
8	859	854	857	489	396	417	719	693	704	870	859	866	
9	865	859	861	466	439	456	726	707	714	865	843	855	
10	870	865	867	496	466	490	741	713	726	848	838	842	
11	870	865	867	518	496	512	748	726	736	848	838	844	
12	870	865	868	541	512	534	761	735	747	854	843	850	
13	876	870	872	569	541	564	764	745	752	854	848	850	
14	876	859	867	559	547	553	751	729	741	854	843	849	
15	862	728	826	691	537	603	732	716	724	859	843	852	
16	760	282	518	684	669	678	738	716	727	859	848	856	
17	440	244	296	680	662	671	741	723	731	887	854	869	
18	431	232	278	668	655	661	751	726	738	887	876	881	
19	289	209	226	659	643	649	755	735	742	892	881	885	
20	292	250	270	653	640	647	984	681	819	945	887	913	
21	260	183	235	659	646	652	902	844	876	951	933	940	
22	289	260	281	672	659	664	874	848	863	951	927	941	
23	348	289	325	679	666	672	866	861	864	951	939	943	
24	397	348	373	686	672	678	883	866	874	951	933	942	
25	436	396	417	705	669	685	892	870	880	945	939	941	
26	468	436	453	686	669	674	902	870	884	945	933	939	
27	490	448	474	698	676	685	892	874	883	945	933	939	
28	482	470	475	709	686	698	888	879	881	945	921	932	
29	511	482	499	724	698	708	897	874	883	933	921	931	
30	---	---	---	724	698	711	897	879	888	939	927	934	
31	---	---	---	724	690	709	---	---	---	939	927	933	
MONTH	876	183	615	724	396	593	984	522	771	951	838	895	
		JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
1	939	933	938	1060	1050	1050	1210	1190	1200	1520	1490	1500	
2	945	933	940	1050	951	1030	1220	1190	1210	1530	1490	1510	
3	945	939	941	1040	990	1010	1220	1200	1210	1550	1500	1530	
4	945	939	943	1010	990	997	---	---	---	1550	152		

## 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 mi<sup>2</sup> (34.7 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to May 1980 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 515 ft (157 m), from topographic map.

REMARKS.--Records fair except those for period of no gage height record, Oct. 31 to Dec. 5, which are poor. Some releases from South Bay Aqueduct into stream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 410 ft<sup>3</sup>/s (11.6 m<sup>3</sup>/s) Jan. 13, 1980, gage height, 3.07 ft (0.936 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft<sup>3</sup>/s (1.4 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 13	1900	*410	11.6	3.07	0.936
Feb. 19	0945	295	8.35	2.86	.872

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	.06	.08	.10	.28	.88	.45	.21				
2	.12	.05	.07	.09	.27	2.9	.46	.20				
3	.04	.11	.07	.09	.28	4.0	.44	.18				
4	.04	.07	.07	.09	.27	1.6	.52	.14				
5	1.3	.06	.06	.09	.27	7.9	2.2	.13				
6	.05	.06	.06	.09	.30	15	.77	.13				
7	.04	.06	.06	.08	.25	7.3	.52	.13				
8	1.4	.05	.06	.06	.23	1.8	.46	.15				
9	.04	.05	.06	.28	.24	1.3	.42	.16				
10	.03	.05	.06	.42	.25	1.1	.40	.24				
11	.04	.06	.06	8.3	.25	1.0	.32	.23				
12	1.2	.06	.06	8.4	.32	.87	.30	.22				
13	.10	.06	.06	51	.34	.86	.27	.20				
14	.12	.05	.05	34	.60	.88	.25	.20				
15	1.8	.05	.05	9.0	1.4	.91	.25	.20				
16	.05	.05	.05	7.0	6.1	.86	.25	.21				
17	.04	.20	.05	8.6	12	.80	.24	.68				
18	.04	.08	.05	5.0	9.2	.79	.23	---				
19	.04	.07	.05	2.3	108	.66	.23	---				
20	.13	.07	.06	1.3	35	.63	.23	---				
21	.08	.07	.66	.68	43	.65	.42	---				
22	.06	.08	.22	.39	6.7	.58	.67	---				
23	.06	.10	.24	.36	2.6	.55	.66	---				
24	.06	.08	2.1	.34	1.6	.52	.42	---				
25	.47	.07	3.6	.33	1.3	.83	.33	---				
26	.14	.07	.45	.33	1.1	.83	.28	---				
27	.09	.06	.18	.31	3.5	.72	.27	---				
28	.08	.06	.12	.31	4.0	.59	.28	---				
29	.07	.08	.10	.32	1.1	.54	.29	---				
30	.06	.08	.11	.30	---	.50	.24	---				
31	.06	---	.11	.30	---	.45	---	---				
TOTAL	9.75	2.12	9.08	140.26	240.75	58.80	13.07	---				
MEAN	.31	.071	.29	4.52	8.30	1.90	.44	---				
MAX	1.9	.20	3.6	51	108	15	2.2	---				
MIN	.03	.05	.05	.06	.23	.45	.23	---				
AC-FT	19	4.2	18	278	478	117	26	---				
CAL YR 1979	TOTAL	326.23	MEAN .89	MAX	39	MIN 0	AC-FT 647					



11176140 ALTAMONT CREEK NEAR LIVERMORE, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1979 to May 1980 (discontinued).

CHEMICAL ANALYSES: January to May 1980 (discontinued).

SPECIFIC CONDUCTANCE: Water year 1979 to May 1980 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1979 to May 1980 (discontinued).

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

REMARKS.--Difference between recorder values before adjustment and field measurement values exceeded  $\pm 10$  percent micromhos for specific conductance at times during the year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 5,070 micromhos Feb. 16, 1980; minimum recorded, 287 micromhos Jan. 13, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 5,070 micromhos Feb. 16; minimum recorded, 287 micromhos Jan. 13.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
JAN									
02...	1030	.10	2040	8.3	8.2	330	0	55	46
12...	1100	--	670	--	--	100	0	20	13
FEB									
17...	1500	--	2130	--	13.0	240	0	49	28
MAR									
04...	1124	--	2300	--	11.5	250	0	46	34
13...	1400	--	4440	--	18.5	480	95	93	59
DATE		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)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
JAN									
02...	360	85	8.7	4.0	470	140	320	1.4	14
12...	140	84	6.0	4.8	180	46	120	.7	13
FEB									
17...	360	76	10	7.9	240	59	490	.6	17
MAR									
04...	390	76	11	7.8	280	66	510	.6	19
13...	770	77	15	12	380	89	1200	1.2	3.6
DATE		SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
JAN									
02...	1230	1250	1.67	.33	5.0	6200	30	40	
12...	491	478	.67	--	2.3	2100	270	7	
FEB									
17...	1210	1180	1.65	--	2.2	10000	170	0	
MAR									
04...	1220	1260	1.66	--	2.1	10000	150	20	
13...	2480	2510	3.37	--	4.9	28000	20	20	

11176140 ALTAMONT CREEK NEAR LIVERMORE, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

OCTOBER				NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2380	588	1120	2480	2340	2430	2370	2190	2300	---	---	---
2	1610	984	1210	2550	2480	2510	2410	2370	2390	---	---	---
3	1800	1550	1690	2500	2200	2350	2440	2410	2420	---	---	---
4	1990	1760	1870	2220	2190	2210	---	---	---	---	---	---
5	2150	393	920	2290	2150	2210	---	---	---	---	---	---
6	1540	772	1120	2310	2280	2300	---	---	---	---	---	---
7	1540	1440	1470	2350	2310	2320	---	---	---	---	---	---
8	1580	382	740	2350	2250	2300	---	---	---	---	---	---
9	1350	764	1040	2500	2340	2390	---	---	---	---	---	---
10	1750	1410	1580	2460	2430	2450	---	---	---	---	---	---
11	2150	1750	1980	2560	2440	2480	---	---	---	3550	1150	1520
12	2150	533	968	2500	2370	2460	---	---	---	1280	896	1050
13	1370	646	1060	2550	2460	2500	---	---	---	1230	287	897
14	1610	1140	1490	2550	2500	2520	---	---	---	1260	476	900
15	1650	500	806	2740	2480	2580	---	---	---	1500	1240	1360
16	1230	860	1020	2740	2130	2510	---	---	---	1920	1500	1730
17	1390	1220	1280	2130	1560	1900	---	---	---	1970	1410	1700
18	1470	1360	1410	2150	1930	2040	---	---	---	2110	1570	1790
19	1550	1110	1290	2150	1920	2070	---	---	---	2780	2110	2520
20	1810	1320	1630	1920	1770	1810	---	---	---	3100	2780	2940
21	1930	1810	1880	2000	1800	1870	---	---	---	3280	3100	3160
22	2150	1930	2050	2260	2000	2170	---	---	---	3370	3280	3310
23	2160	2060	2100	2250	2220	2250	---	---	---	3370	3180	3310
24	2310	2050	2150	2310	2190	2240	---	---	---	3310	3130	3210
25	2340	658	1490	2320	2290	2310	---	---	---	---	---	---
26	1140	690	933	2320	2110	2200	---	---	---	---	---	---
27	1220	1060	1120	2410	2160	2250	---	---	---	---	---	---
28	1360	1210	1290	2310	2310	2310	---	---	---	---	---	---
29	1790	1360	1670	2380	2290	2350	---	---	---	---	---	---
30	1920	1630	1720	2280	2150	2180	---	---	---	---	---	---
31	2340	1920	2170	---	---	---	---	---	---	---	---	---
MONTH	2380	382	1430	2740	1560	2280	---	---	---	---	---	---
FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	4270	3840	4160						
2	---	---	---	4440	2060	3680						
3	---	---	---	2730	2110	2420						
4	---	---	---	3440	2680	3060						
5	---	---	---	3370	1380	1910						
6	---	---	---	---	---	---						
7	---	---	---	---	---	---						
8	---	---	---	---	---	---						
9	---	---	---	---	---	---						
10	---	---	---	---	---	---						
11	---	---	---	---	---	---						
12	---	---	---	---	---	---						
13	---	---	---	---	---	---						
14	---	---	---	---	---	---						
15	---	---	---	---	---	---						
16	5070	1670	3730	---	---	---						
17	2240	1880	2100	---	---	---						
18	2250	1200	1840	---	---	---						
19	999	407	571	---	---	---						
20	1380	581	978	---	---	---						
21	1170	503	774	---	---	---						
22	2010	1330	1630	---	---	---						
23	2640	2080	2370	---	---	---						
24	3030	2660	2890	---	---	---						
25	3370	3050	3270	---	---	---						
26	3690	3400	3590	---	---	---						
27	3870	1580	3300	---	---	---						
28	3000	1530	2280	---	---	---						
29	3790	2450	3560	---	---	---						
30	---	---	---	---	---	---						
31	---	---	---	---	---	---						
MONTH	---	---	---	---	---	---						

## ALAMEDA CREEK BASIN

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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 mi<sup>2</sup> (194.2 km<sup>2</sup>).

## 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 14 discharge measurements were furnished by Alameda County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft<sup>3</sup>/s (38.2 m<sup>3</sup>/s) Feb. 19, 1980, gage height 7.28 ft (2.219 m), from rating curve extended above 830 ft<sup>3</sup>/s (23.5 m<sup>3</sup>/s); no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft<sup>3</sup>/s (11 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 13	2100	1290	36.5	7.14	2.176
Feb. 19	0915	*1350	38.2	7.28	2.219

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	3.8	7.1	7.7	5.9	6.4	1.6	1.2	1.6	0		
2	3.8	4.9	5.7	6.3	6.5	19	1.6	1.3	1.7	7.5		
3	4.3	6.6	6.2	7.3	6.4	34	1.6	1.4	1.8	3.6		
4	5.2	5.7	6.2	7.2	6.4	14	1.6	1.3	.93	1.1		
5	7.1	5.7	6.0	6.9	6.2	60	2.6	1.3	1.0	.77		
6	7.7	5.3	5.0	6.7	7.2	70	2.6	1.6	1.1	.64		
7	5.6	4.5	3.5	5.8	7.0	28	2.3	1.5	.95	.73		
8	6.0	4.5	2.0	6.0	6.7	15	2.0	1.5	.81	.42		
9	5.9	3.5	2.5	12	1.1	7.0	1.8	4.0	.80	0		
10	6.3	4.5	6.5	9.8	.89	6.0	1.8	3.6	.99	.05		
11	5.4	5.5	5.5	65	1.0	5.4	1.3	3.0	.82	.17		
12	5.5	5.5	6.5	66	1.1	4.8	.81	2.6	.54	.71		
13	8.0	5.5	6.0	259	1.1	4.6	.68	1.7	.29	.1		
14	6.6	4.7	6.0	183	8.1	4.6	.68	1.8	.31	.61		
15	6.2	5.2	6.5	33	27	6.1	.68	1.7	.74	.01		
16	5.7	5.3	6.5	17	95	4.0	.68	1.7	.61	0		
17	5.3	17	7.0	19	95	3.8	.68	1.6	.78	0		
18	5.7	6.2	5.5	15	67	3.8	.68	.97	.58	0		
19	8.5	5.1	9.0	9.3	672	3.1	.57	.81	.69	0		
20	10	6.4	5.5	7.3	146	2.6	.44	.80	.58	0		
21	6.6	6.5	9.5	7.8	214	2.6	.44	.78	.48	0		
22	5.7	6.5	8.0	6.3	47	2.6	1.8	.73	.33	0		
23	5.7	7.9	10	6.1	23	2.3	5.6	.91	.42	0		
24	5.3	6.2	40	5.9	12	2.3	2.4	8.3	.35	0		
25	28	5.7	42	4.8	9.0	2.3	1.6	4.2	.12	0		
26	9.6	4.1	11	8.0	7.2	2.8	1.0	2.5	0	0		
27	5.7	2.3	7.5	7.6	31	2.8	.85	2.3	0	0		
28	5.7	4.9	6.5	4.3	39	2.8	.71	1.6	.33	0		
29	4.9	7.1	4.9	8.0	10	2.6	.42	2.1	.06	0		
30	4.9	7.1	9.1	7.3	---	2.3	.47	1.2	0	0		
31	5.3	---	7.9	6.9	---	1.8	1.1	1.1	---	0		
TOTAL	210.4	173.7	271.1	822.3	1559.79	329.4	41.99	61.10	19.71	17.41	0	0
MEAN	6.79	5.79	8.75	26.5	53.8	10.6	1.40	1.97	.66	.56	0	0
MAX	28	17	42	259	672	70	5.6	8.3	1.8	7.5	0	0
MIN	3.8	2.3	2.0	4.3	.89	1.8	.42	.73	0	0	0	0
AC-FT	417	345	538	1630	3090	653	83	121	39	35	0	0
CAL YR 1979 TOTAL	3117.56			MEAN 8.54	MAX 225	MIN 0	AC-FT 6180					
WTR YR 1980 TOTAL	3506.90			MEAN 9.58	MAX 672	MIN 0	AC-FT 6960					

## ALAMEDA CREEK BASIN

11176180 ARROYO LAS POSITAS AT EL CHARRO ROAD, NEAR PLEASANTON, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

CHEMICAL ANALYSES: December 1979 to September 1980.

SPECIFIC CONDUCTANCE: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1978 to current year.

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

REMARKS.--Difference between recorder values before adjustment and field values for specific conductance exceeded  $\pm 10$  percent micromhos at times during the year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,000 micromhos July 3-5, 1980; minimum recorded, 238 micromhos July 2, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,000 micromhos July 3-5; minimum recorded, 242 micromhos July 2.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
DATE	TIME								
DEC 31...	1430	9.8	1220	7.3	15.5	210	79	36	29
JAN 12...	1130	--	340	--	--	59	0	14	5.8
FEB 17...	1545	--	585	--	13.0	93	0	19	11
MAR 13...	1500	--	2480	--	13.0	450	130	85	57
		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)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
DATE									
DEC 31...	170	78	5.1	12	130	170	180	.2	23
JAN 12...	49	63	2.8	3.5	72	23	48	.2	8.3
FEB 17...	98	69	4.4	3.6	110	31	98	.3	20
MAR 13...	390	65	8.0	6.0	320	160	520	.8	12
		SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED, (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
DATE									
DEC 31...	772	780	1.05	20.4	--	1500	20	9	
JAN 12...	211	203	.29	--	1.5	860	80	1	
FEB 17...	385	355	.52	--	1.4	1900	130	2	
MAR 13...	1420	1450	1.93	--	3.1	8800	30	30	

## ALAMEDA CREEK BASIN

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11176180 ARROYO LAS POSITAS AT EL CHARRO ROAD, NEAR PLEASANTON, CA--Continued  
 SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	1060	1030	1050			
2				---	---	---	1090	1050	1070			
3				1290	864	1190	1100	1070	1090			
4				1200	1020	1150	1110	1070	1100			
5				1260	1190	1220	1140	1100	1120			
6				1250	1200	1230	1190	1140	1170			
7				1270	1230	1250	1200	1160	1190			
8				1280	1230	1260	1200	1160	1190			
9				1300	1260	1280	1200	1170	1190			
10				1290	1220	1260	1210	1190	1210			
11				1300	1230	1270	1210	1180	1200			
12				1300	1230	1260	1220	1180	1200			
13				1280	1210	1250	1240	1190	1220			
14				1280	1230	1250	1250	1220	1240			
15				1290	1220	1250	1260	1220	1250			
16				1280	1220	1250	1260	1220	1250			
17				1250	626	739	1250	1210	1240			
18				1040	874	970	1250	1220	1240			
19				1080	1040	1060	1240	1030	1170			
20				1110	1070	1090	1070	1030	1050			
21				1130	1110	1120	1070	816	1000			
22				1130	1080	1110	1470	884	1360			
23				1090	970	1010	1320	984	1220			
24				1070	988	1020	994	468	747			
25				1070	1040	1060	656	444	551			
26				1070	982	1030	1140	656	995			
27				994	940	967	1280	1140	1220			
28				1000	956	980	1290	1260	1280			
29				1030	986	1010	1320	1280	1300			
30				1050	1010	1030	---	---	---			
31				---	---	---	---	---	---			
MONTH				1300	626	1130	1470	444	1140			
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1570	1280	1430						
2	---	---	---	1680	1150	1560						
3	---	---	---	1260	1060	1130						
4	---	---	---	---	---	---						
5	---	---	---	---	---	---						
6	---	---	---	916	574	776						
7	1930	1600	1670	1200	916	1080						
8	1800	1530	1620	1590	1200	1410						
9	1560	1480	1520	1940	1590	1800						
10	---	---	---	---	---	---						
11	---	---	---	---	---	---						
12	---	---	---	---	---	---						
13	---	---	---	---	---	---						
14	---	---	---	---	---	---						
15	1940	758	1260	---	---	---						
16	1620	400	1070	---	---	---						
17	676	428	551	---	---	---						
18	754	472	631	---	---	---						
19	480	242	327	---	---	---						
20	552	396	485	---	---	---						
21	532	352	412	---	---	---						
22	874	532	720	---	---	---						
23	1130	858	971	---	---	---						
24	1420	1130	1290	---	---	---						
25	1670	1420	1570	---	---	---						
26	1850	1670	1770	---	---	---						
27	1940	852	1710	---	---	---						
28	1020	860	957	---	---	---						
29	1280	1010	1130	---	---	---						
30	---	---	---	---	---	---						
31	---	---	---	---	---	---						
MONTH	---	---	---	---	---	---						



## 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 mi<sup>2</sup> (368 km<sup>2</sup>).

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.--18 years, 14.1 ft<sup>3</sup>/s (0.399 m<sup>3</sup>/s), 10,220 acre-ft/yr (12.6 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,220 ft<sup>3</sup>/s (62.9 m<sup>3</sup>/s) Feb. 19, 1980, gage height, 11.87 ft (3.618 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft<sup>3</sup>/s (7.1 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 13	2000	1370 38.8	11.18 3.408	Feb. 27	2015	292 8.27	9.48 2.890
Feb. 19	1500	*2220 62.9	11.87 3.618				

Minimum daily discharge, no flow several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	10	11	13	11	12	9.1	3.5	3.8	2.1	.11	12
2	5.7	11	11	11	11	24	2.9	2.7	3.3	23	.10	5.3
3	5.1	15	11	11	8.4	39	2.6	4.4	4.4	11	.02	.02
4	6.0	13	11	11	12	20	3.8	12	3.0	8.4	0	0
5	7.3	11	11	11	11	93	45	5.9	1.8	12	.07	0
6	7.4	12	9.7	11	8.7	105	11	2.7	1.7	11	.06	0
7	6.6	9.3	9.2	9.8	8.2	48	3.5	2.5	3.1	6.7	.21	.17
8	7.4	11	7.1	10	9.9	32	4.5	2.4	7.5	1.2	.17	.49
9	8.4	8.2	7.1	16	6.1	24	4.8	4.2	5.0	.70	1.2	.01
10	6.7	11	12	15	7.6	19	4.9	4.6	2.9	.01	4.7	0
11	6.3	12	11	143	7.3	14	1.9	4.5	1.3	0	.40	.06
12	6.3	12	12	185	4.9	12	2.3	4.5	.97	4.0	.59	.20
13	9.2	12	10	318	9.2	12	8.2	2.6	5.1	13	1.1	.18
14	6.9	11	11	373	15	13	12	2.4	5.8	5.0	.14	.87
15	6.6	8.6	12	96	39	16	17	2.2	7.9	.07	.70	.45
16	6.9	13	12	39	159	13	12	2.1	7.2	0	3.1	.72
17	12	28	13	35	280	11	10	4.4	7.4	.21	8.0	3.8
18	7.1	13	11	27	287	10	24	6.3	3.9	3.3	4.6	2.5
19	15	12	16	20	1280	6.6	23	2.7	4.3	12	.01	1.2
20	18	12	11	17	433	3.8	28	1.9	3.4	13	0	.38
21	9.0	11	17	18	531	7.7	40	1.8	.56	6.5	0	.39
22	11	13	16	19	189	10	50	1.6	.33	.66	0	.37
23	12	13	17	17	85	8.9	48	1.4	.49	.14	.15	.82
24	10	11	69	13	45	6.9	35	13	.34	.21	2.9	1.0
25	46	9.8	75	8.5	32	9.1	29	9.4	.09	.25	6.3	.76
26	18	11	21	13	25	14	29	14	.01	5.5	.02	1.2
27	9.7	8.4	15	13	69	13	21	13	0	11	0	6.4
28	12	11	13	11	65	12	15	7.5	0	5.1	0	2.1
29	11	12	11	13	21	12	12	4.5	.63	.12	.71	3.4
30	8.8	10	16	13	---	11	9.5	3.5	1.6	.32	2.9	.57
31	10	---	17	13	---	10	---	3.5	---	.10	12	---
TOTAL	321.0	355.3	506.1	1523.3	3670.3	642.0	519.0	151.7	87.82	156.59	50.26	45.36
MEAN	10.4	11.8	16.3	49.1	127	20.7	17.3	4.89	2.93	5.05	1.62	1.51
MAX	46	28	75	373	1280	105	50	14	7.9	23	12	12
MIN	5.1	8.2	7.1	8.5	4.9	3.8	1.9	1.4	0	0	0	0
AC-FT	637	705	1000	3020	7280	1270	1030	301	174	311	100	90
CAL YR 1979	TOTAL	5079.10	MEAN 13.9	MAX 306	MIN 2.1	AC-FT 10070						
WTR YR 1980	TOTAL	8028.73	MEAN 21.9	MAX 1280	MIN 0	AC-FT 15920						

## ALAMEDA CREEK BASIN

11176300 TASSAJARA CREEK NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'57", long 121°52'41" in Santa Rita Grant, Alameda County, Hydrologic Unit 18050004, at center pier on upstream side of bridge on old Santa Rita Road, 800 ft (244 m) downstream from bridge on Interstate Highway 580 and 2.6 miles (4.2 km) north of Pleasanton, CA.

DRAINAGE AREA.--26.8 mi<sup>2</sup> (69.4 km<sup>2</sup>).

## 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 current year. 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 except those above 150 ft<sup>3</sup>/s (4.2 m<sup>3</sup>/s) and those for period of no gage-height record, April 4 to May 14, which are fair.

AVERAGE DISCHARGE.--15 years, 2.45 ft<sup>3</sup>/s (0.069 m<sup>3</sup>/s), 1,780 acre-ft/yr (2.19 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 750 ft<sup>3</sup>/s (21.2 m<sup>3</sup>/s) Jan. 13, 1980, gage height, 8.50 ft (2.591 m), from rating curve extended above 300 ft<sup>3</sup>/s (8.50 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 4.55 ft (1.387 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 75 ft<sup>3</sup>/s (2.1 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 12	1015	176 4.98	3.49 1.064	Feb. 20	2230	290 8.21	4.29 1.308
Jan. 13	1900	*750 21.2	8.50 2.591	Feb. 27	2200	145 4.11	2.84 0.866
Feb. 16	2045	353 10.0	4.92 1.500	Mar. 2	2045	85 2.41	2.35 0.716
Feb. 19	0830	449 12.7	5.83 1.777	Mar. 6	0600	80 2.27	2.31 0.704

Minimum daily discharge, no flow several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.66	3.8	15	5.0	2.6	.89	0		
2			0	.02	3.8	27	4.8	2.4	.92	.13		
3			0	0	3.7	24	4.4	2.6	.76	.67		
4			0	0	3.5	16	7.2	2.4	.63	.33		
5			0	0	3.5	34	26	2.3	.70	.16		
6			0	0	3.0	37	6.8	2.4	.69	.12		
7			0	0	2.6	17	5.6	2.3	.67	.10		
8			0	0	2.7	15	5.0	2.2	.59	.06		
9			0	.06	2.7	14	4.6	4.7	.59	0		
10			0	1.1	2.8	13	4.5	2.9	.55	0		
11			0	15	2.8	12	4.4	2.1	.55	0		
12			0	64	2.8	11	3.9	2.2	.59	0		
13			0	147	2.9	10	3.6	2.1	.59	0		
14			0	99	5.3	10	3.4	2.0	.55	0		
15			0	26	17	10	3.3	1.8	.44	0		
16			0	18	117	8.7	3.2	1.7	.36	0		
17			0	22	96	8.4	3.2	1.4	.36	0		
18			0	16	78	7.7	3.5	1.3	.28	0		
19			0	9.7	275	7.1	3.3	1.3	.25	0		
20			0	7.6	119	7.0	4.0	1.2	.33	0		
21			0	6.5	137	6.8	7.0	1.1	.33	0		
22			0	5.4	51	6.3	6.2	1.1	.33	0		
23			0	4.2	32	6.0	4.3	1.0	.28	0		
24			3.8	3.6	25	6.8	3.5	1.2	.20	0		
25			6.4	4.3	21	6.2	3.2	1.9	.18	0		
26			1.0	4.4	18	5.6	3.0	1.1	.06	0		
27			.15	4.6	32	5.0	2.9	1.0	0	0		
28			0	4.6	30	4.9	2.8	.96	0	0		
29			0	4.3	16	4.5	3.0	1.0	0	0		
30			0	4.0	---	4.7	2.9	.96	0	0		
31		---	.03	4.0	---	4.6	---	1.0	---	0		---
TOTAL	0	0	11.38	476.04	1109.9	365.3	148.5	56.22	12.67	1.57	0	0
MEAN	0	0	.37	15.4	38.3	11.8	4.95	1.81	.42	.051	0	0
MAX	0	0	6.4	147	275	37	26	4.7	.92	.67	0	0
MIN	0	0	0	0	2.6	4.5	2.8	.96	0	0	0	0
AC-FT	0	0	23	944	2200	725	295	112	25	3.1	0	0

CAL YR 1979 TOTAL 635.46 MEAN 1.74 MAX 136 MIN 0 AC-FT 1260  
WTR YR 1980 TOTAL 2181.58 MEAN 5.96 MAX 275 MIN 0 AC-FT 4330



11176300 TASSAJARA CREEK NEAR PLEASANTON, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1979 to current year.

CHEMICAL ANALYSES: January to September 1980.

SPECIFIC CONDUCTANCE: Water year 1979 to current year.

PERIOD OF DAILY RECORD--

SPECIFIC CONDUCTANCE: March 1979 to current year.

INSTRUMENTATION--Water-quality monitor since March 1979.

REMARKS.--Difference between recorder values before adjustment and field measurement values exceeded  $\pm 10$  percent micromhos for specific conductance at times during the year.

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

EXTREMES FOR PERIOD OF DAILY RECORD--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,200 micromhos July 3, 1980; minimum recorded, 164 micromhos Feb. 19, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,200 micromhos July 3; minimum recorded, 164 micromhos Feb. 19.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
JAN 11...	1600	345	--	--	73	0	16	8.0	51	58	2.6	6.6
FEB 17...	1615	380	--	13.0	120	0	27	12	41	42	1.7	3.4
MAR 04...	0945	760	--	10.0	270	6	62	27	72	37	1.9	3.2
13...	1530	880	--	13.0	310	19	71	32	87	38	2.2	2.9
APR 01...	1130	983	8.2	14.5	280	2	57	34	100	43	2.6	3.0
14...	1230	1020	7.7	19.0	300	0	62	35	110	44	2.8	4.2
29...	1430	1080	8.0	21.0	340	11	74	38	120	43	2.8	3.9
DATE	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 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)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
JAN 11...	110	30	28	.3	14	251	228	.34	1.7	380	140	2
FEB 17...	130	43	16	.3	18	273	243	.37	.86	280	60	2
MAR 04...	260	95	40	.4	22	504	483	.69	.95	500	30	4
13...	290	120	49	.5	19	553	560	.75	.84	620	20	4
APR 01...	280	130	56	.5	3.9	558	554	.76	.12	680	<10	4
14...	320	140	60	.5	8.5	630	614	.86	.23	790	<10	3
29...	330	140	70	.5	18	619	665	.84	.26	810	430	30

## ALAMBDA CREEK BASIN

11176300 TASSAJARA CREEK NEAR PLEASANTON, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1										---	---	---
2										---	---	---
3										---	---	---
4										---	---	---
5										---	---	---
6										---	---	---
7										---	---	---
8										---	---	---
9										---	---	---
10										---	---	---
11										---	---	---
12										---	---	---
13										---	---	---
14										---	---	---
15										---	---	---
16										---	---	---
17										---	---	---
18										---	---	---
19										---	---	---
20										---	---	---
21										---	---	---
22										---	---	---
23										---	---	---
24										921	829	870
25										---	---	---
26										---	---	---
27										---	---	---
28										---	---	---
29										---	---	---
30										---	---	---
31										---	---	---
MONTH										---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	945	881	918	---	---	---
2	---	---	---	---	---	---	933	881	907	---	---	---
3	---	---	---	---	---	---	927	876	894	---	---	---
4	---	---	---	---	---	---	921	876	900	---	---	---
5	---	---	---	538	490	514	939	439	673	---	---	---
6	---	---	---	488	407	450	---	---	---	---	---	---
7	928	899	911	748	634	708	---	---	---	---	---	---
8	936	907	916	791	740	765	---	---	---	---	---	---
9	943	931	933	814	782	803	---	---	---	---	---	---
10	950	938	939	834	805	818	---	---	---	---	---	---
11	945	939	943	843	819	826	---	---	---	---	---	---
12	953	947	948	843	814	828	---	---	---	---	---	---
13	960	948	955	859	824	838	---	---	---	---	---	---
14	997	950	969	865	829	845	---	---	---	---	---	---
15	964	566	769	843	824	835	---	---	---	1040	951	990
16	626	358	500	865	824	841	---	---	---	1020	957	984
17	384	311	363	876	838	854	---	---	---	1030	957	985
18	406	384	396	881	838	857	---	---	---	1030	957	984
19	394	164	206	892	838	857	---	---	---	1030	957	984
20	247	183	208	881	829	852	---	---	---	1020	951	980
21	330	239	289	887	829	853	---	---	---	997	957	988
22	---	---	---	903	824	856	---	---	---	1020	963	991
23	---	---	---	898	834	856	---	---	---	1010	957	988
24	---	---	---	903	834	868	---	---	---	990	970	983
25	---	---	---	903	870	878	---	---	---	1080	990	1040
26	---	---	---	909	838	879	---	---	---	1050	921	992
27	---	---	---	909	834	862	---	---	---	1010	970	985
28	---	---	---	921	838	881	---	---	---	1020	976	995
29	---	---	---	945	876	914	---	---	---	1020	976	1000
30	---	---	---	945	909	937	---	---	---	1020	983	996
31	---	---	---	957	903	930	---	---	---	1030	990	1010
MONTH	---	---	---	957	407	822	---	---	---	---	---	---



## ALAMEDA CREEK BASIN

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 mi<sup>2</sup> (337 km<sup>2</sup>).

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 ft<sup>3</sup>/s, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--17 years, 30.1 ft<sup>3</sup>/s (0.852 m<sup>3</sup>/s), 21,810 acre-ft/yr (26.9 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,340 ft<sup>3</sup>/s (151 m<sup>3</sup>/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.--Peak discharges above base of 500 ft<sup>3</sup>/s (14 m<sup>3</sup>/s) and maximum(\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 13	2030	3060 86.70	4.14 1.262
Feb. 19	1515	*5710 162	5.40 1.646

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.39	17	14	97	26	12	5.2	1.4		
2		0	.20	11	14	94	26	12	4.6	2.3		
3		0	.04	8.5	13	185	24	11	3.9	3.1		
4		0	0	7.1	12	162	23	11	3.9	2.5		
5		0	0	6.3	12	228	79	9.4	4.2	2.0		
6		0	0	5.5	12	283	60	9.4	4.6	1.7		
7		0	0	5.3	11	222	39	9.4	4.6	1.5		
8		0	0	4.6	11	188	28	9.1	4.3	1.4		
9		0	0	9.1	9.8	167	24	9.8	3.9	1.2		
10		0	0	46	9.4	138	21	12	3.8	1.1		
11		0	0	557	9.4	124	20	11	3.7	.96		
12		0	0	855	9.4	99	19	10	3.9	.85		
13		0	0	955	9.3	103	19	9.4	4.0	.80		
14		0	0	1220	11	85	18	9.4	4.1	.78		
15		0	0	390	29	66	18	9.4	4.1	.64		
16		0	0	224	653	60	18	9.4	3.6	.59		
17		0	0	148	1340	55	16	9.3	3.9	.49		
18		0	0	121	2800	52	16	9.2	3.7	.47		
19		0	0	80	3530	49	15	8.3	3.2	.41		
20		0	.10	57	1310	45	16	8.3	2.9	.37		
21		0	.51	44	1920	43	18	7.8	2.6	.32		
22		0	.52	36	760	41	20	7.3	2.4	.26		
23		0	.99	30	402	39	20	6.7	2.6	.24		
24		0	54	25	256	37	19	7.1	2.4	.16		
25		0	72	24	195	39	18	7.4	2.2	.07		
26		2.1	26	22	150	37	16	8.0	1.9	.06		
27		2.4	12	19	124	35	15	7.4	1.8	.03		
28		1.6	7.1	19	161	33	14	7.4	1.7	0		
29		.94	5.5	17	114	29	13	7.4	1.7	0		
30		.59	8.2	15	---	28	12	6.9	1.6	0		
31		---	18	14	---	26	---	6.0	---	0		
TOTAL	0	7.63	205.55	4992.4	13901.3	2889	690	278.2	101.0	25.70	0	0
MEAN	0	.25	6.63	161	479	93.2	23.0	8.97	3.37	.83	0	0
MAX	0	2.4	72	1220	3530	283	79	12	5.2	3.1	0	0
MIN	0	0	0	4.6	9.3	26	12	6.0	1.6	0	0	0
AC-FT	0	15	408	9900	27570	5730	1370	552	200	51	0	0
CAL YR 1979	TOTAL	5101.73	MEAN	14.0	MAX	710	MIN	0	AC-FT	10120		
WTR YR 1980	TOTAL	23090.78	MEAN	63.1	MAX	3530	MIN	0	AC-FT	45800		

## ALAMEDA CREEK BASIN

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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 mi<sup>2</sup> (381 km<sup>2</sup>).

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 hm<sup>3</sup>). 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 ft<sup>3</sup>/s (0.838 m<sup>3</sup>/s), 21,450 acre-ft/yr (26.4 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft<sup>3</sup>/s (346 m<sup>3</sup>/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, 2,160 ft<sup>3</sup>/s (61.2 m<sup>3</sup>/s) Feb. 20, 1980, gage height, 7.89 ft (2.405 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 ft<sup>3</sup>/s (515 m<sup>3</sup>/s), on basis of contracted-opening and slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,160 ft<sup>3</sup>/s (61.2 m<sup>3</sup>/s) Feb. 20, gage height, 7.89 ft (2.405 m); minimum daily, 0.23 ft<sup>3</sup>/s (0.007 m<sup>3</sup>/s) Jan. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	6.9	9.8	9.1	.28	3.2	6.8	10	13	45	46	12
2	11	7.4	9.4	9.4	.30	3.0	6.8	6.8	43	45	47	12
3	11	8.0	9.4	9.4	.35	2.7	6.8	.93	71	44	46	12
4	11	7.9	9.7	9.4	.42	2.5	4.8	.86	72	44	47	13
5	11	8.0	10	9.4	.40	3.4	8.5	.69	69	44	47	14
6	11	8.0	10	9.4	1.6	3.0	7.9	4.5	67	44	46	11
7	11	8.0	10	9.4	9.4	2.8	6.8	9.0	67	45	46	11
8	11	8.0	10	9.4	10	2.8	6.8	9.4	68	46	45	11
9	11	8.0	10	9.8	10	2.8	6.8	7.5	66	46	45	10
10	12	7.7	10	10	10	2.8	6.8	13	68	46	45	10
11	12	7.4	10	6.5	11	2.6	6.9	13	67	46	45	10
12	11	7.4	10	.62	14	2.5	7.4	13	67	46	45	10
13	11	7.4	10	.83	14	2.2	7.4	13	54	46	7.6	11
14	6.8	7.4	9.7	.53	14	1.2	7.4	13	44	46	13	10
15	7.4	7.4	9.4	.35	14	3.9	7.5	14	45	46	14	10
16	7.4	7.7	9.4	.25	14	7.9	7.9	13	42	46	18	10
17	7.4	8.0	9.4	.26	8.8	7.3	8.0	11	43	46	18	10
18	7.4	7.9	9.4	.25	1.5	8.5	8.0	11	45	47	18	11
19	7.6	7.7	9.4	.25	4.4	11	8.3	11	45	46	28	11
20	7.4	7.5	9.5	.25	1010	11	8.7	9.1	45	46	45	11
21	7.7	7.4	9.4	1.8	1130	11	9.3	6.0	45	46	45	10
22	7.1	7.8	9.4	2.4	2040	8.0	9.5	6.2	45	47	45	10
23	7.3	8.0	9.5	.25	1990	5.7	9.5	6.7	45	47	46	10
24	7.2	7.7	10	.23	1950	6.0	9.7	7.2	45	48	46	13
25	7.8	7.4	9.8	.25	1090	6.3	10	6.8	45	48	46	16
26	7.4	7.4	8.7	.25	390	6.3	9.9	6.8	45	48	45	17
27	7.2	7.4	8.7	.25	355	6.3	9.4	6.8	45	47	43	17
28	7.1	7.4	8.7	.25	114	6.3	9.4	7.1	45	46	30	16
29	7.0	7.4	9.0	.25	3.8	6.3	9.5	12	45	46	43	17
30	6.8	8.2	9.3	.29	---	6.7	9.9	15	45	46	42	14
31	6.8	---	9.2	.29	---	6.8	---	7.2	---	46	32	---
TOTAL	275.8	229.8	296.2	111.30	10211.25	162.8	242.4	271.58	1551	1425	1174.6	360
MEAN	8.90	7.66	9.55	3.59	352	5.25	8.08	8.76	51.7	46.0	37.9	12.0
MAX	12	8.2	10	10	2040	11	10	15	72	48	47	17
MIN	6.8	6.9	8.7	.23	.28	1.2	4.8	.69	13	44	7.6	10
AC-FT	547	456	588	221	20250	323	481	539	3080	2830	2330	714
CAL YR 1979 TOTAL	4991.02			MEAN 13.7	MAX 32	MIN .42	AC-FT 9900					
WTR YR 1980 TOTAL	16311.73			MEAN 44.6	MAX 2040	MIN .23	AC-FT 32350					

## ALAMEDA CREEK BASIN

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 mi<sup>2</sup> (443 km<sup>2</sup>).

## 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 hm<sup>3</sup>). 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 ft<sup>3</sup>/s (0.784 m<sup>3</sup>/s), 20,050 acre-ft/yr (24.7 hm<sup>3</sup>/yr); 12 years (1969-80), 17.4 ft<sup>3</sup>/s (0.493 m<sup>3</sup>/s), 12,610 acre-ft/yr (15.5 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft<sup>3</sup>/s (320 m<sup>3</sup>/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, 2,320 ft<sup>3</sup>/s (65.7 m<sup>3</sup>/s) Feb. 21, 1980, gage height, 13.41 ft (4.087 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,320 ft<sup>3</sup>/s (65.7 m<sup>3</sup>/s) Feb. 21, gage height, 13.41 ft (4.087 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.52	.96	4.9	.12	22	4.7	.87	0	29	27	22
2	1.3	.50	.97	4.4	.02	18	1.3	.66	0	35	27	10
3	1.4	1.5	1.2	4.3	0	13	.87	.55	9.9	31	27	5.2
4	1.1	.88	1.2	4.2	0	9.6	1.1	.24	41	30	28	3.2
5	1.5	.86	.29	4.0	0	16	7.3	0	46	29	28	2.4
6	1.8	.82	.78	4.0	0	20	2.6	0	46	29	28	3.1
7	1.7	.74	.94	3.8	0	17	2.3	0	46	29	28	2.5
8	1.8	.72	.96	3.7	0	10	1.9	0	46	29	28	1.8
9	1.9	.67	1.0	5.7	0	6.7	1.8	0	47	29	27	1.5
10	1.8	.70	1.1	5.8	0	5.2	1.8	0	47	29	27	1.2
11	1.8	.70	1.2	22	0	4.1	1.5	0	48	29	27	.99
12	1.9	.70	1.4	23	0	3.1	1.4	0	48	29	27	.83
13	1.9	.67	1.5	55	0	2.4	2.4	0	47	29	26	.63
14	1.9	.71	1.7	49	0	1.8	2.1	0	36	29	12	.58
15	1.6	.57	2.0	23	5.8	1.8	1.4	1.2	30	29	4.8	.62
16	1.2	1.8	2.2	14	18	.81	1.2	1.3	29	28	3.3	.68
17	.88	1.4	2.2	11	12	.34	1.2	2.0	27	28	4.5	.56
18	.70	1.3	2.3	7.9	18	1.0	.93	1.5	27	28	5.0	.51
19	3.9	1.5	3.6	5.4	68	1.8	.91	.70	29	28	5.0	.53
20	1.9	1.4	2.9	4.0	345	4.9	.75	.90	29	29	8.1	.55
21	1.5	1.3	4.2	3.4	1220	5.6	1.4	.10	29	28	19	.60
22	1.3	1.7	3.9	3.2	2140	9.6	2.4	.01	28	28	25	.64
23	.98	1.6	6.9	2.6	2080	9.6	2.6	0	29	28	26	.44
24	.68	1.3	18	2.5	2010	6.6	2.6	0	29	28	27	.23
25	9.2	1.0	20	1.9	1460	4.6	2.1	0	29	28	27	.23
26	2.5	1.2	11	1.3	459	5.1	1.7	0	30	28	28	1.4
27	2.1	.91	7.3	1.0	375	5.7	1.6	0	29	28	28	2.7
28	1.4	.86	6.0	.88	254	5.5	1.4	0	29	28	28	3.5
29	.93	.92	5.3	.71	41	6.2	1.1	0	29	28	22	4.0
30	.68	.96	7.0	.44	---	6.7	1.0	0	30	27	25	4.3
31	.56	---	5.9	.29	---	4.9	---	0	---	27	28	---
TOTAL	55.11	30.41	125.90	277.32	10505.94	229.65	57.36	10.03	969.9	891	680.7	77.42
MEAN	1.78	1.01	4.06	8.95	362	7.41	1.91	.32	32.3	28.7	22.0	2.58
MAX	9.2	1.8	20	55	2140	22	7.3	2.0	48	35	28	22
MIN	.56	.50	.29	.29	0	.34	.75	0	0	27	3.3	.23
AC-FT	109	60	250	550	20840	456	114	20	1920	1770	1350	154
CAL YR 1979 TOTAL	2172.67			MEAN 5.95		MAX 37	MIN 0	AC-FT 4310				
WTR YR 1980 TOTAL	13910.74			MEAN 38.0		MAX 2140	MIN 0	AC-FT 27590				

11176600 ARROYO VALLE AT PLEASANTON, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.  
 CHEMICAL ANALYSES: Water years 1975, 1978 to current year.  
 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.

REMARKS.--Difference between recorder values before adjustment and field measurement values exceeded  $\pm 10$  percent micromhos for specific conductance at times during the year.

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

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, 575 micromhos Mar. 31; minimum recorded, 98 micromhos Feb. 15.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CAC03)
JAN 12...	1300	310	--	96	20	22	10	23	33	1.0	2.8	76
FEB 19...	1424	290	13.5	98	13	21	11	23	33	1.0	2.5	85
MAR 04...	1030	375	11.5	150	27	31	17	24	26	.9	2.2	120
MAR 13...	1610	405	14.0	160	32	35	18	29	28	1.0	2.4	130
JUL 24...	1400	390	25.0	140	11	30	16	24	27	.9	2.0	130

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 CONSTITUENTS, 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)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
JAN 12...	30	31	.2	8.6	186	177	.25	.76	170	100	7
FEB 19...	28	28	.1	8.3	173	175	.24	.47	150	60	4
MAR 04...	35	23	.1	12	216	220	.29	.83	170	50	6
MAR 13...	40	36	.2	10	246	253	.33	.77	350	20	1
JUL 24...	35	23	.6	10	224	219	.30	.00	190	30	8

## ALAMEDA CREEK BASIN

11176600 ARROYO VALLE AT PLEASANTON, CA--Continued

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	517	445	480				---	---	---	488	448	480
2	498	444	466				---	---	---	496	480	488
3	500	430	461				---	---	---	488	474	484
4	485	437	455				---	---	---	486	474	482
5	501	427	458				---	---	---	487	473	482
6	506	428	451				503	443	466	487	471	481
7	446	424	436				505	453	470	489	471	482
8	477	433	448				507	455	472	488	470	481
9	483	419	448				487	455	468	474	374	422
10	488	420	472				503	463	480	466	320	438
11	454	412	429				496	468	479	430	210	308
12	456	406	425				527	465	493	496	266	386
13	454	412	427				517	483	497	500	156	353
14	448	406	428				520	478	497	480	320	452
15	452	416	430				528	474	497	466	420	444
16	456	406	427				518	474	492	448	416	435
17	446	404	420				520	470	492	444	412	431
18	418	400	408				495	477	485	462	436	452
19	406	182	285				491	379	438	460	448	452
20	406	322	369				508	461	486	474	454	465
21	422	364	392				500	386	463	482	468	475
22	422	368	395				519	471	503	496	480	484
23	435	378	401				513	307	435	494	486	488
24	420	374	397				337	189	260	494	488	490
25	---	---	---				497	239	397	496	492	495
26	---	---	---				518	497	503	502	496	498
27	---	---	---				516	498	501	504	496	501
28	---	---	---				504	496	499	524	500	506
29	---	---	---				501	495	498	516	500	506
30	---	---	---				499	325	426	512	502	507
31	---	---	---				487	417	465	510	494	503
MONTH	---	---	---				528	189	468	524	156	463
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	510	500	507	365	347	354	573	523	548	561	551	556
2	508	494	503	364	312	346	551	525	542	565	549	557
3	---	---	---	373	337	361	546	532	542	563	547	555
4	---	---	---	396	372	381	532	406	513	563	547	555
5	---	---	---	376	252	304	418	252	335	---	---	---
6	---	---	---	358	306	335	468	390	449	---	---	---
7	---	---	---	382	358	371	483	466	478	---	---	---
8	---	---	---	412	382	391	487	475	482	---	---	---
9	---	---	---	434	410	422	499	479	491	---	---	---
10	---	---	---	424	402	413	503	495	498	---	---	---
11	---	---	---	426	412	418	509	499	504	---	---	---
12	---	---	---	433	406	420	517	503	510	---	---	---
13	---	---	---	435	423	428	531	511	518	---	---	---
14	---	---	---	431	419	425	523	515	520	---	---	---
15	292	98	209	430	412	420	527	517	524	510	492	501
16	372	108	250	422	412	417	533	525	530	516	504	510
17	408	246	357	420	416	418	537	525	533	512	504	508
18	408	194	342	428	416	423	539	531	535	510	500	506
19	440	148	287	451	423	432	547	531	538	510	494	501
20	450	326	424	457	431	441	539	533	537	514	500	504
21	328	306	320	517	447	488	541	515	532	512	500	506
22	334	298	317	517	481	496	537	473	518	---	---	---
23	326	296	313	529	511	521	537	473	510	---	---	---
24	340	326	335	532	514	524	551	537	541	---	---	---
25	335	325	330	534	496	515	565	543	551	---	---	---
26	343	333	340	522	492	507	547	539	545	---	---	---
27	340	290	330	546	508	525	549	543	546	---	---	---
28	339	329	335	558	506	528	555	547	549	---	---	---
29	350	338	345	557	511	536	555	547	551	---	---	---
30	---	---	---	573	545	559	559	549	554	---	---	---
31	---	---	---	575	547	562	---	---	---	---	---	---
MONTH	---	---	---	575	252	441	573	252	517	---	---	---





## ALAMEDA CREEK BASIN

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA

LOCATION.--Lat 37°36'55", long 121°52'50", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.3 mi (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 mi<sup>2</sup> (1,049 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

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 fair. Flow partly regulated by Del Valle Reservoir 15 mi (24 km) upstream, capacity, 77,100 acre-ft (95.1 hm<sup>3</sup>). 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 ft<sup>3</sup>/s (1.204 m<sup>3</sup>/s), 30,790 acre-ft/yr (38.0 hm<sup>3</sup>/yr); 11 years (water years 1970-80), 50.6 ft<sup>3</sup>/s (1.433 m<sup>3</sup>/s), 36,660 acre-ft/yr (45.2 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 9,810 ft<sup>3</sup>/s (278 m<sup>3</sup>/s) Jan. 25, 1914; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,870 ft<sup>3</sup>/s (166 m<sup>3</sup>/s) Jan. 13, gage height, 17.11 ft (5.22 m); minimum daily, 2.4 ft<sup>3</sup>/s (0.068 m<sup>3</sup>/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	18	23	42	24	88	29	14	18	33	29	35
2	16	19	24	30	22	164	22	12	18	71	28	21
3	13	48	26	29	21	175	20	15	20	49	30	8.5
4	14	34	24	28	22	88	21	21	57	37	30	6.5
5	16	29	24	28	23	382	178	15	59	41	30	4.4
6	17	24	21	28	19	370	48	12	59	40	30	5.4
7	15	21	24	27	17	153	30	11	59	39	30	4.9
8	17	24	19	27	18	104	24	11	63	31	29	4.8
9	18	20	17	51	17	82	23	16	61	31	29	5.8
10	18	22	24	46	14	72	18	19	58	31	33	4.0
11	14	23	25	329	16	62	17	12	55	31	29	3.9
12	18	24	27	740	12	53	18	13	51	32	29	2.4
13	18	22	24	1480	19	50	21	13	55	42	28	3.6
14	17	23	22	1230	78	48	26	12	44	38	18	3.9
15	17	20	28	247	209	55	28	11	41	31	10	3.1
16	15	32	27	166	754	45	29	12	39	30	9.1	3.6
17	20	78	28	136	843	41	29	13	37	30	16	5.3
18	18	28	26	104	572	39	35	16	33	33	16	6.7
19	87	24	45	71	3170	36	36	12	34	39	10	5.2
20	48	22	27	57	1090	32	41	11	35	42	9.6	4.2
21	22	24	42	49	2580	34	64	11	32	39	21	4.0
22	22	29	39	43	2400	39	82	10	31	31	26	2.9
23	22	38	55	42	2230	38	90	10	31	30	28	3.2
24	20	24	372	39	2090	35	60	12	31	30	28	3.2
25	171	24	243	26	1650	36	44	32	32	31	35	3.8
26	65	39	68	38	491	39	42	26	31	33	29	4.4
27	27	21	45	37	568	35	34	26	30	38	29	9.1
28	26	22	40	32	545	32	26	22	30	35	28	9.5
29	26	25	37	28	136	31	23	17	30	28	23	9.5
30	20	23	57	27	---	32	20	17	32	29	27	7.3
31	19	---	51	25	---	30	---	16	---	28	37	---
TOTAL	871	824	1554	5282	19650	2520	1178	470	1206	1103	783.7	199.1
MEAN	28.1	27.5	50.1	170	678	81.3	39.3	15.2	40.2	35.6	25.3	6.64
MAX	171	78	372	1480	3170	382	178	32	63	71	37	35
MIN	13	18	17	25	12	30	17	10	18	28	9.1	2.4
AC-FT	1730	1630	3080	10480	38980	5000	2340	932	2390	2190	1550	395
CAL YR 1979 TOTAL	16851.0			MEAN 46.2	MAX 1070	MIN 12	AC-FT 33420					
WTR YR 1980 TOTAL	35640.8			MEAN 97.4	MAX 3170	MIN 2.4	AC-FT 70690					

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1979 to September 1980.

CHEMICAL ANALYSES: July 1979 to September 1980.

SPECIFIC CONDUCTANCE: August 1979 to September 1980.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1979 to September 1980.

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

REMARKS.--Differences between recorder values before adjustment and field measurement values exceeded  $\pm 10$  percent micromhos for specific conductance at times during the year.

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,420 micromhos April 4; minimum recorded, 245 micromhos Jan. 13.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
OCT										
24...	1200	23	1090	8.0	16.0	260	80	43	37	120
NOV										
28...	1200	25	1030	7.8	12.2	290	100	47	42	100
DEC										
19...	1445	71	820	7.8	12.0	200	69	37	26	80
JAN										
12...	1330	--	300	--	--	86	0	19	9.4	33
FEB										
17...	1745	--	400	--	13.0	110	3	24	13	38
MAR										
04...	1100	--	860	--	11.0	250	28	53	28	79
13...	1630	--	1100	--	--	360	79	73	43	100
APR										
01...	1315	--	1030	8.5	14.0	330	68	62	42	84
14...	1600	--	986	8.0	17.5	340	94	67	43	88
JUL										
24...	1230	--	499	--	22.5	170	22	36	20	35

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 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)
OCT									
24...	69	3.2	8.5	180	120	140	.5	19	656
NOV									
28...	42	2.6	7.0	190	110	120	.4	19	610
DEC									
19...	63	2.5	6.1	130	89	85	.3	13	464
JAN									
12...	58	1.5	3.6	91	31	19	.3	12	192
FEB									
17...	41	1.6	2.7	110	41	29	.2	14	260
MAR									
04...	41	2.2	3.2	220	95	83	.3	18	518
13...	38	2.3	2.8	280	120	120	.3	18	621
APR									
01...	36	2.0	2.7	260	110	110	.3	7.6	593
14...	36	2.1	2.8	250	120	100	.3	11	592
JUL									
24...	30	1.2	2.2	150	45	38	.2	11	280

## ALAMEDA CREEK BASIN

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	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)
OCT 24...	650	.89	41.1	--	12	--	--	--	--
NOV 28...	605	.83	40.8	--	10	--	--	--	--
DEC 19...	447	.63	88.9	--	7.1	--	--	--	--
JAN 12...	188	.26	--	1.4	1.3	.22	.06	--	1.0
FEB 17...	233	.35	--	--	.96	--	--	--	--
MAR 04...	499	.70	--	1.3	1.3	.04	.00	1.4	.97
APR 13...	656	.84	--	--	2.2	--	.06	--	.57
APR 01...	584	.81	--	1.6	1.7	.00	.00	.93	.82
JUL 14...	588	.81	--	1.1	1.1	.04	.04	1.1	.83
JUL 24...	278	.38	--	--	.00	--	--	--	--
DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL. (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 24...	--	--	--	--	--	--	860	100	40
NOV 28...	--	--	--	--	--	--	710	20	50
DEC 19...	--	--	--	--	--	--	480	40	60
JAN 12...	--	1.1	--	--	.34	--	270	120	10
FEB 17...	--	--	--	--	--	--	430	70	2
MAR 04...	1.4	.97	2.7	.37	.22	--	1000	30	60
APR 13...	--	.63	--	--	.16	11	1200	10	70
APR 01...	.93	.82	2.5	.08	.01	--	1000	10	80
JUL 14...	1.1	.87	2.2	.12	.10	--	1000	10	90
JUL 24...	--	--	--	--	--	--	320	40	20

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1130	1120	1120							---	---	---
2	1130	1130	1130							---	---	---
3	1130	1130	1130							---	---	---
4	1140	1140	1140							---	---	---
5	1140	1140	1140							---	---	---
6	1140	1140	1140							---	---	---
7	1160	1140	1150							---	---	---
8	1170	1170	1170							1120	1030	1070
9	1170	1170	1170							1030	482	819
10	1170	1170	1170							820	452	682
11	1180	1170	1180							790	287	364
12	1170	1170	1170							418	255	317
13	1170	1160	1170							463	245	381
14	1160	1160	1160							---	---	---
15	1170	1170	1170							---	---	---
16	1170	1170	1170							---	---	---
17	1170	1160	1160							---	---	---
18	1170	1170	1170							---	---	---
19	---	---	---							---	---	---
20	---	---	---							---	---	---
21	---	---	---							---	---	---
22	---	---	---							---	---	---
23	---	---	---							---	---	---
24	---	---	---							---	---	---
25	---	---	---							---	---	---
26	---	---	---							---	---	---
27	---	---	---							---	---	---
28	---	---	---							---	---	---
29	---	---	---							---	---	---
30	---	---	---							---	---	---
31	---	---	---							---	---	---
MONTH	---	---	---							---	---	---

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	413	384	395	---	---	---	1230	1060	1130
2	---	---	---	---	---	---	---	---	---	1340	1230	1300
3	---	---	---	---	---	---	---	---	---	1340	1340	1340
4	---	---	---	---	---	---	1420	1300	1370	1340	1080	1220
5	---	---	---	---	---	---	1300	340	666	1100	1040	1060
6	1330	1270	1310	---	---	---	1140	941	1040	1320	1100	1230
7	1380	1270	1320	---	---	---	1270	1140	1230	1380	1320	1360
8	1390	1270	1340	---	---	---	1330	1270	1310	1360	1360	1360
9	1400	1290	1360	---	---	---	1380	1260	1300	1360	955	1300
10	1340	1300	1320	---	---	---	1410	1260	1310	1230	875	1050
11	1340	1280	1310	---	---	---	1350	1230	1300	1230	1180	1190
12	1320	1270	1290	---	---	---	1360	1320	1350	1380	1180	1270
13	1380	1290	1320	---	---	---	1360	1120	1290	1380	1290	1300
14	---	---	---	---	---	---	1120	1030	1060	1290	1280	1280
15	1300	459	745	---	---	---	1030	952	989	1290	1280	1290
16	588	326	398	---	---	---	1040	948	985	1320	1270	1300
17	420	362	384	---	---	---	1100	1040	1070	1310	1210	1270
18	466	414	433	---	---	---	1040	828	899	1210	1070	1130
19	---	---	---	---	---	---	885	809	861	1130	1070	1100
20	---	---	---	---	---	---	865	773	835	1190	1130	1170
21	---	---	---	---	---	---	959	545	736	1200	1180	1190
22	---	---	---	---	---	---	1050	590	764	1260	1200	1240
23	---	---	---	---	---	---	981	595	759	1260	1250	1260
24	---	---	---	---	---	---	753	723	741	1280	1190	1260
25	---	---	---	---	---	---	831	748	805	1200	941	1080
26	447	427	439	---	---	---	825	790	807	962	934	948
27	459	350	433	---	---	---	977	801	932	981	962	972
28	384	337	354	---	---	---	1000	959	973	996	981	988
29	385	346	364	---	---	---	1040	1000	1020	1120	996	1070
30	---	---	---	---	---	---	1060	985	1030	1160	1120	1140
31	---	---	---	---	---	---	---	---	---	1210	1160	1190
MONTH	---	---	---	---	---	---	1420	340	1020	1380	875	1190
	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1230	1210	1220	---	---	---	525	501	516	653	632	643
2	1230	1190	1230	---	---	---	501	482	491	688	646	670
3	1190	1160	1160	---	---	---	501	486	493	710	678	691
4	---	---	---	---	---	---	492	477	485	773	710	745
5	---	---	---	---	---	---	497	478	487	840	773	815
6	---	---	---	---	---	---	586	487	545	869	828	849
7	---	---	---	---	---	---	625	577	601	886	863	877
8	---	---	---	---	---	---	630	617	625	912	873	893
9	---	---	---	554	536	544	626	606	615	982	893	934
10	---	---	---	552	544	548	620	590	602	1040	976	1010
11	---	---	---	554	542	548	623	578	594	1110	1030	1070
12	561	539	549	547	531	541	579	469	508	1170	1090	1140
13	595	561	580	582	531	562	520	497	507	1240	1170	1210
14	626	595	609	606	582	597	558	516	541	1300	1240	1270
15	650	626	639	597	584	588	609	556	590	1350	1280	1320
16	665	650	656	663	592	629	650	609	631	1380	1300	1350
17	682	665	673	745	663	715	743	650	700	1410	1340	1370
18	---	---	---	763	745	752	779	726	757	1360	1260	1320
19	---	---	---	748	515	634	812	771	793	1260	1210	1250
20	---	---	---	614	608	610	834	796	815	1250	1200	1220
21	---	---	---	612	566	602	812	731	758	1260	1200	1230
22	---	---	---	566	507	523	731	613	645	1280	1190	1240
23	---	---	---	518	503	512	613	573	585	1300	1210	1250
24	---	---	---	516	492	504	607	586	599	1310	1230	1270
25	---	---	---	525	497	514	615	598	608	1300	1230	1260
26	---	---	---	594	518	547	642	610	628	1280	1230	1250
27	---	---	---	634	572	613	637	610	620	1270	1230	1250
28	---	---	---	630	595	609	615	581	591	1260	1220	1240
29	---	---	---	599	516	535	601	588	596	1270	1180	1220
30	---	---	---	536	521	528	635	600	622	1230	1160	1190
31	---	---	---	536	524	532	635	622	630	---	---	---
MONTH	---	---	---	---	---	---	834	469	606	1410	632	1100
YEAR	1420	245	916									

## ALAMEDA CREEK BASIN

11177200 VALLECITOS CREEK AT SUNOL, CA

LOCATION.--Lat 37°35'42", long 121°52'51", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank at culvert on Sunol Road, 700 ft (213 m) upstream from mouth, and 0.3 mi (0.5 km) east of Sunol.

DRAINAGE AREA.--7.48 mi<sup>2</sup> (19.37 km<sup>2</sup>).

PERIOD OF RECORD.--Water years 1975 to current year.

CHEMICAL ANALYSES: Water years 1975 to 1979 (discontinued).

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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,400 micromhos Nov. 22, 1977; minimum recorded, 108 micromhos Feb. 19, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 988 micromhos Feb. 8; minimum recorded, 108 micromhos Feb. 19.

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	440	326	382	562	506	531	576	556	568	888	704	778
2	528	366	453	518	490	505	581	563	572	960	882	920
3	578	376	451	516	486	506	590	566	581	884	656	803
4	408	364	380	520	470	489	596	480	577	934	814	896
5	568	408	499	550	488	515	640	596	617	914	694	845
6	594	360	461	576	550	562	614	590	604	864	620	758
7	488	326	366	584	528	558	614	450	560	868	596	764
8	486	278	332	590	566	577	620	592	606	878	790	849
9	486	300	382	597	577	586	606	592	600	872	720	776
10	452	338	405	591	547	571	612	604	608	862	696	775
11	476	356	400	552	374	483	632	344	505	716	318	552
12	502	364	415	567	453	511	628	424	528	730	350	619
13	538	390	461	578	532	564	642	406	568	704	154	506
14	516	304	374	596	578	586	636	624	631	456	204	401
15	424	302	339	583	561	573	636	610	621	506	432	475
16	478	314	376	572	258	506	618	588	608	564	496	533
17	574	478	535	608	250	467	616	552	607	606	550	578
18	598	574	589	607	419	530	618	462	532	668	588	631
19	596	288	422	582	512	552	616	394	493	722	646	686
20	480	320	380	596	482	547	612	422	533	736	694	716
21	436	340	389	603	577	598	566	498	527	792	698	757
22	466	316	374	608	540	587	598	468	522	816	742	788
23	556	466	520	561	467	499	620	428	534	830	758	800
24	520	258	409	567	493	533	656	250	461	836	734	800
25	528	166	343	586	492	541	676	350	572	842	750	820
26	444	334	380	583	361	487	706	610	657	848	746	813
27	514	312	415	579	531	548	810	664	754	880	744	826
28	536	302	412	570	532	551	780	636	715	904	724	831
29	552	314	426	575	545	556	822	620	741	906	750	861
30	574	466	538	561	547	554	768	550	652	926	878	906
31	582	404	495	---	---	---	800	672	755	928	884	903
MONTH	598	166	423	608	250	539	822	250	594	960	154	741

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	928	870	897	608	570	589	754	706	733	772	728	749
2	934	874	899	664	580	614	746	714	731	760	722	740
3	904	852	879	652	550	615	744	668	705	772	744	758
4	890	842	869	658	590	615	728	654	705	782	752	768
5	934	886	910	624	252	315	656	392	572	762	748	756
6	904	852	877	370	276	318	714	614	663	762	724	746
7	906	866	885	480	370	429	754	660	711	794	736	763
8	988	310	813	538	480	512	762	730	744	760	724	742
9	310	276	293	584	538	564	752	678	725	730	676	706
10	302	290	297	622	584	602	752	672	720	676	618	647
11	304	286	298	646	574	615	744	700	726	692	666	684
12	300	284	294	650	618	637	732	710	725	---	---	---
13	308	290	299	672	646	658	740	722	730	---	---	---
14	564	294	367	692	644	666	738	638	716	---	---	---
15	798	344	57	680	628	658	748	666	728	---	---	---
16	672	208	479	688	658	680	744	710	730	---	---	---
17	484	340	413	722	680	708	736	686	708	---	---	---
18	526	270	415	736	708	723	724	674	697	---	---	---
19	270	108	173	734	702	718	720	658	688	---	---	---
20	370	150	301	724	692	709	714	634	658	---	---	---
21	300	134	207	736	694	712	680	520	634	---	---	---
22	356	284	320	736	664	704	714	516	625	---	---	---
23	456	344	407	740	630	690	674	510	604	---	---	---
24	510	456	489	748	676	720	718	670	695	---	---	---
25	564	510	538	750	644	711	714	604	681	---	---	---
26	596	558	574	744	680	714	750	658	737	---	---	---
27	612	226	507	730	680	703	760	694	720	---	---	---
28	486	286	394	740	672	707	762	724	735	---	---	---
29	570	486	528	738	648	688	758	704	734	---	---	---
30	---	---	---	730	620	686	770	732	757	---	---	---
31	---	---	---	746	708	729	---	---	---	---	---	---
MONTH	988	108	524	750	252	636	770	392	701	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	348	300	311
2							---	---	---	364	344	355
3							---	---	---	396	364	386
4							---	---	---	414	394	403
5							---	---	---	436	414	429
6							---	---	---	454	436	448
7							---	---	---	468	454	463
8							---	---	---	470	462	465
9							---	---	---	476	468	472
10							---	---	---	484	476	481
11							---	---	---	492	482	488
12							---	---	---	500	490	495
13							---	---	---	504	492	500
14							---	---	---	506	498	501
15							---	---	---	510	500	504
16							---	---	---	516	502	510
17							---	---	---	516	508	513
18							---	---	---	524	516	518
19							---	---	---	526	520	523
20							---	---	---	526	518	522
21							226	208	220	524	510	519
22							228	216	224	530	514	525
23							234	224	230	536	518	530
24							244	226	235	540	524	534
25							254	236	246	540	526	535
26							260	246	254	544	532	536
27							274	260	264	548	540	543
28							304	256	272	554	542	547
29							296	274	290	558	544	553
30							298	278	288	604	556	571
31							300	286	295	---	---	---
MONTH							---	---	---	604	300	489
YEAR	988	108	574									

## 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 mi<sup>2</sup> (1,639 km<sup>2</sup>).

## 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 Sunoiglen" 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 by Calaveras Reservoir, although dam not completed until 1925, usable capacity, 96,800 acre-ft (119 hm<sup>3</sup>), most of which is diverted for San Francisco water supply; since February 1965 by San Antonio Reservoir, capacity, 51,000 acre-ft (62.9 hm<sup>3</sup>); and since September 1968 by Del Valle Reservoir, 23 mi (37 km) upstream, capacity, 77,100 acre-ft (95.1 hm<sup>3</sup>). 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 km<sup>2</sup>) above station.

AVERAGE DISCHARGE.--71 years (water years 1892-1962), 123 ft<sup>3</sup>/s (3.483 m<sup>3</sup>/s), 89,050 acre-ft/yr (110 hm<sup>3</sup>/yr); 18 years (water years 1963-80), 96.9 ft<sup>3</sup>/s (2.744 m<sup>3</sup>/s), 70,200 acre-ft/yr (86.6 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft<sup>3</sup>/s (821 m<sup>3</sup>/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 1963-80), 1.4 ft<sup>3</sup>/s (0.040 m<sup>3</sup>/s) Dec. 7, 8, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,300 ft<sup>3</sup>/s (292 m<sup>3</sup>/s) Feb. 19, gage height, 12.08 ft (3.682 m); minimum daily, 2.2 ft<sup>3</sup>/s (0.062 m<sup>3</sup>/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	22	23	70	97	323	74	100	27	67	52	54
2	12	20	24	39	90	357	64	81	27	89	51	26
3	12	37	25	36	84	469	58	70	24	68	54	17
4	13	41	25	34	74	361	59	66	46	46	55	9.8
5	13	29	24	32	69	713	223	60	57	50	55	7.6
6	15	23	23	32	68	704	86	48	58	57	55	6.2
7	15	23	24	31	55	474	59	46	55	65	52	5.7
8	15	23	19	30	51	196	53	43	62	53	52	5.3
9	14	22	19	54	56	134	56	43	63	54	52	4.2
10	14	20	23	75	50	286	54	62	59	59	61	4.0
11	14	23	26	542	55	239	51	50	57	59	58	3.4
12	14	24	26	1080	61	201	51	53	57	63	55	3.9
13	13	24	27	1760	62	178	52	50	61	74	55	3.4
14	15	22	24	2670	109	157	52	52	54	75	41	3.8
15	14	22	28	662	253	153	52	43	48	66	34	3.8
16	14	22	28	530	909	131	51	34	50	65	29	2.2
17	16	80	30	478	2240	117	48	32	55	64	33	2.5
18	18	32	29	499	2520	110	53	32	51	66	38	4.8
19	63	26	52	408	8180	102	56	27	52	70	27	6.0
20	53	24	50	344	4990	87	68	25	60	73	21	6.6
21	28	24	50	293	6320	85	96	25	57	64	30	5.8
22	24	25	54	247	4860	95	112	22	53	53	49	5.8
23	23	40	44	262	3720	96	136	21	57	51	55	5.1
24	22	25	310	272	2980	88	108	19	64	54	55	4.6
25	126	25	366	197	2300	89	92	32	64	57	62	3.9
26	81	39	115	173	920	93	92	26	63	60	54	2.4
27	30	24	60	152	874	89	75	27	63	66	50	2.8
28	25	22	48	132	1210	80	125	26	63	60	50	1.1
29	25	25	45	117	395	83	166	20	66	49	45	8.8
30	22	25	75	106	---	82	131	17	64	51	48	9.8
31	22	---	63	105	---	75	---	22	---	50	58	---
TOTAL	795	833	1779	11462	43652	6847	2453	1274	1637	1898	1486	240.2
MEAN	25.6	27.8	57.4	370	1505	221	81.8	41.1	54.6	61.2	47.9	8.01
MAX	126	80	366	2670	8180	713	223	100	66	89	62	54
MIN	10	20	19	30	50	75	48	17	24	46	21	2.2
AC-FT	1580	1650	3530	22730	86580	13580	4870	2530	3250	3760	2950	476
CAL YR 1979	TOTAL	21187.0	MEAN	58.0	MAX	1280	MIN	10	AC-FT	42020		
WTR YR 1980	TOTAL	74356.2	MEAN	203	MAX	8180	MIN	2.2	AC-FT	147500		



## 11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1906, 1952-73, 1975-to current year.

CHEMICAL ANALYSES: Water years 1906, 1952-67; 1969, 1975-79.

SPECIFIC CONDUCTANCE: Water years 1956-57, 1959-62, 1976 to current year.

WATER TEMPERATURES: Water years 1956-73, 1976-78.

SEDIMENT RECORDS: Water years 1957-73.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1956 to July 1957, August 1959 to September 1962, October 1975 to current year.

WATER TEMPERATURES: July 1956 to September 1973, October 1975 to September 1978.

INSTRUMENTATION.--Water-quality monitor since October 1975.

REMARKS.--Unpublished records of daily specific conductance are included in extremes and are available in files of district office. Differences between recorder values before adjustment and field measurement values exceeded  $\pm 10$  percent micromhos for specific conductance at times during the year.

COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected and specific conductance and pH were furnished by Alameda County Water District.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,530 micromhos Nov. 19, 1977; minimum recorded, 156 micromhos Jan. 13, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,180 micromhos Oct. 16; minimum recorded, 156 micromhos Jan. 13.

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1130	1090	1110	1070	1030	1050	1040	1020	1030	862	808	838
2	1150	1090	1120	1050	1020	1030	1050	1040	1050	939	862	910
3	1130	1070	1090	1040	1010	1020	1060	1050	1060	1000	939	974
4	1100	1090	1100	1010	632	757	1060	1050	1060	1030	1000	1020
5	1130	1100	1120	892	752	829	1110	1040	1060	1050	1030	1040
6	1140	1120	1130	912	892	906	1070	1040	1050	1060	1050	1060
7	1150	1120	1140	970	904	941	1090	1070	1080	1070	1040	1060
8	1130	1100	1110	1010	970	989	1090	1030	1070	1040	1020	1030
9	1140	1100	1120	1040	1010	1030	1040	1000	1020	1030	722	979
10	1110	1080	1090	1020	1020	1020	1100	1040	1070	810	566	660
11	1080	1040	1060	1040	1020	1030	1130	1040	1090	676	312	428
12	1090	1060	1080	1050	1030	1040	1060	1040	1050	412	338	366
13	1090	1070	1080	1050	1040	1040	1050	1020	1040	540	156	413
14	1110	1090	1100	1040	1030	1040	1030	1020	1030	360	176	298
15	1160	1090	1100	1040	1020	1030	1050	1020	1030	426	366	403
16	1180	1110	1140	1020	1010	1020	1020	1000	1010	440	418	431
17	1110	1060	1080	1040	922	972	1040	1020	1030	460	436	445
18	1140	1080	1110	932	914	922	1030	962	997	436	396	409
19	1100	590	935	1040	924	958	986	726	892	428	408	418
20	792	584	696	1050	1030	1040	844	548	601	448	424	434
21	830	766	797	1040	1030	1030	776	578	645	472	434	450
22	994	830	913	1040	1030	1040	846	556	678	484	446	467
23	1040	992	1010	1040	1020	1040	1010	652	868	508	428	470
24	1020	1000	1010	1020	995	1000	921	343	453	474	426	448
25	1020	430	806	1010	999	1000	480	368	440	478	448	461
26	532	430	465	1040	1010	1020	548	480	518	542	478	512
27	916	532	759	1010	971	984	633	548	589	574	542	561
28	986	916	955	991	969	977	718	633	692	596	574	587
29	1030	986	1010	997	985	992	763	718	754	590	558	574
30	1020	1010	1010	1020	997	1010	786	742	765	620	590	608
31	1050	1000	1020	---	---	---	837	731	778	630	598	611
MONTH	1180	430	1010	1070	632	992	1130	343	887	1070	156	625

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	636	616	624	432	412	423	807	787	796	499	479	487
2	648	636	642	450	430	438	806	764	783	518	480	493
3	684	644	668	447	437	441	812	726	763	543	518	527
4	695	659	677	439	423	431	809	761	782	647	543	589
5	767	695	743	442	348	398	944	388	600	654	632	649
6	771	737	746	444	358	403	780	660	747	672	602	627
7	776	698	726	477	443	459	831	779	797	650	622	640
8	822	764	781	483	463	472	842	822	833	694	648	680
9	854	708	788	521	483	497	857	837	846	692	674	683
10	770	654	714	541	517	530	867	769	820	834	628	719
11	752	670	715	582	541	569	856	804	833	650	630	642
12	708	556	593	620	570	594	847	791	814	654	636	647
13	742	572	656	654	608	633	820	782	803	706	650	683
14	855	515	647	700	638	670	888	816	848	694	648	665
15	635	365	513	737	673	713	821	771	798	690	642	663
16	472	216	379	735	699	718	804	792	798	740	686	724
17	314	208	276	761	727	742	805	753	771	772	736	751
18	321	215	284	776	746	761	857	765	808	856	758	815
19	225	165	186	792	746	777	774	726	751	874	778	835
20	256	198	227	784	764	776	726	693	708	808	738	776
21	245	211	225	826	780	801	698	628	673	766	728	751
22	277	237	260	815	753	798	716	574	634	782	742	764
23	292	272	281	805	649	749	641	557	592	804	770	782
24	326	288	311	795	759	780	598	570	584	816	802	810
25	331	285	309	850	754	783	603	589	595	1020	810	906
26	391	331	358	858	796	822	617	599	605	930	688	752
27	396	346	384	812	784	799	648	617	628	840	780	827
28	346	313	325	816	786	803	681	595	652	862	840	852
29	409	343	374	825	699	778	595	440	496	872	852	864
30	---	---	---	815	689	767	484	434	456	872	850	858
31	---	---	---	807	775	792	---	---	---	910	854	891
MONTH	855	165	497	858	348	649	944	388	720	1020	479	721
		JUNE			JULY			AUGUST			SEPTEMBER	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	822	650	741	520	508	517	435	413	419	505	475	480
2	822	604	700	532	464	493	424	408	413	599	505	567
3	740	586	681	584	502	567	415	401	407	642	599	626
4	932	702	812	734	578	628	402	392	395	679	642	65

## 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 mi<sup>2</sup> (24.32 km<sup>2</sup>).

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 except those for period of no gage-height record, May 7 to July 3, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--24 years, 2.08 ft<sup>3</sup>/s (0.059 m<sup>3</sup>/s), 1,510 acre-ft/yr (1.86 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 930 ft<sup>3</sup>/s (26.3 m<sup>3</sup>/s) Oct. 13, 1962, gage height, 5.27 ft (1.606 m) from outside gage, from rating curve extended above 140 ft<sup>3</sup>/s (3.96 m<sup>3</sup>/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 ft<sup>3</sup>/s (1.1 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)				
Jan. 13	1900	*494	14.0	3.69	1.125	Feb. 19	1145	392	11.1	3.46	1.055
Feb. 16	1930	152	4.30	2.79	.850						

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	1.3	1.1	5.9	1.9	1.2	.23	.02		
2			0	1.7	1.1	8.9	1.8	1.1	.23	.05		
3			0	1.5	1.0	11	1.7	.96	.22	.16		
4			0	1.3	.95	9.0	1.9	.96	.21	.13		
5			0	1.1	.88	23	3.9	1.0	.20	.10		
6			0	.95	.76	27	3.1	1.4	.19	.05		
7			0	.88	.64	16	2.1	.80	.19	.03		
8			0	1.3	.61	12	1.9	.75	.18	0		
9			0	2.0	.56	9.0	1.8	.68	.17	0		
10			0	3.3	.59	7.4	1.7	.63	.16	0		
11			0	34	.63	6.4	1.7	.60	.15	0		
12			0	43	.60	5.3	1.5	.57	.15	0		
13			0	104	.62	4.9	1.4	.54	.14	0		
14			0	56	2.7	4.5	1.4	.52	.13	0		
15			0	29	6.9	4.6	1.3	.48	.13	0		
16			0	22	55	3.9	1.3	.46	.12	0		
17			0	20	44	3.7	1.2	.45	.12	0		
18			0	13	27	3.5	1.8	.44	.12	0		
19			.02	8.0	196	3.2	1.6	.42	.11	0		
20			0	5.7	69	3.0	1.2	.40	.11	0		
21			0	4.6	76	3.0	2.1	.40	.10	0		
22			0	3.7	39	2.9	2.2	.38	.09	0		
23			.13	3.1	22	2.7	1.9	.38	.08	0		
24			1.9	2.9	15	2.5	1.4	.37	.08	0		
25			4.0	2.6	11	2.7	1.5	.46	.07	0		
26			2.2	2.3	8.3	2.8	1.7	.33	.06	0		
27			1.0	2.1	12	2.5	1.6	.30	.05	0		
28			.54	1.9	11	2.3	1.4	.27	.04	0		
29			.37	1.7	6.8	2.1	1.2	.26	.03	0		
30			.68	1.4	---	2.1	1.2	.25	.02	0		
31		---	.63	1.2	---	1.9	---	.24	---	0		---
TOTAL	0	0	11.47	377.53	611.74	199.7	52.4	18.00	3.88	.54	0	0
MEAN	0	0	.37	12.2	21.1	6.44	1.75	.58	.13	.017	0	0
MAX	0	0	4.0	104	196	27	3.9	1.4	.23	.16	0	0
MIN	0	0	0	.88	.56	1.9	1.2	.24	.02	0	0	0
AC-FT	0	0	23	749	1210	396	104	36	7.7	1.1	0	0
CAL YR 1979	TOTAL	636.35	MEAN	1.74	MAX	63	MIN	0	AC-FT	1260		
WTR YR 1980	TOTAL	1275.26	MEAN	3.48	MAX	196	MIN	0	AC-FT	2530		

## ALAMEDA CREEK BASIN

11180700 PATTERSON CREEK AT UNION CITY, CA

LOCATION.--Lat 37°55'09", long 122°02'50", in Potrero de Los Cerritos Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.1 mi (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 poor. This stream is a distributary of Alameda Creek. (See REMARKS for Alameda Creek near Niles). Diversion by Alameda County Water District to percolation ponds between station near Niles and this station; additional percolation to ground water by placing check dams in channel. Channel cleaned in 1975.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,900 ft<sup>3</sup>/s (309 m<sup>3</sup>/s) Feb. 19, 1980, gage height, 14.71 ft (4.484 m); no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,900 ft<sup>3</sup>/s (309 m<sup>3</sup>/s) Feb. 19, gage height, 14.71 ft (4.484 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	1.4	.54	88	3.1	247	46	383	.10	.02	.06	.12
2	.05	1.4	6.1	32	8.9	325	28	217	.09	.04	.06	.12
3	.05	4.0	2.3	21	14	611	11	129	.08	.04	.07	.13
4	.05	2.0	1.5	21	14	428	37	141	.07	.03	.09	.13
5	.22	20	2.4	20	13	766	494	3.9	.06	.02	.10	.11
6	.52	4.7	3.4	18	12	761	111	3.0	.06	.01	.10	.08
7	.53	2.2	4.7	17	2.3	557	9.9	2.8	.05	.01	.12	.05
8	.61	2.1	36	17	2.1	344	23	2.9	.05	.01	.13	.03
9	.60	2.1	11	36	2.2	333	13	4.0	.04	0	.13	0
10	.63	1.3	8.8	95	2.2	236	13	67	.04	0	.13	0
11	.65	.76	13	618	2.3	232	10	42	.03	.01	.14	0
12	.66	.64	14	1240	2.0	202	8.1	32	.03	.02	.14	0
13	.67	.60	12	1570	5.8	133	5.8	32	.03	.01	.14	0
14	.68	.57	3.1	3020	115	139	6.4	32	.03	0	.14	0
15	.68	1.2	4.5	753	395	135	16	18	.03	0	.16	0
16	.68	6.5	11	584	917	125	20	1.9	.03	0	.16	0
17	.68	7.6	8.1	528	2080	109	31	1.1	.03	0	.17	0
18	.67	2.6	43	558	2270	99	38	.92	.03	0	.17	0
19	1.3	2.3	31	479	8210	80	73	.74	.03	0	.21	0
20	1.3	13	65	422	4210	53	111	.62	.03	0	.26	0
21	.85	33	40	368	5220	44	175	.50	.03	.01	.26	0
22	.80	23	57	304	3580	53	574	.42	.02	.03	.23	0
23	.78	24	37	256	2690	64	372	.35	.02	.04	.21	0
24	.76	26	366	320	2200	54	277	.29	.02	.05	.19	0
25	46	14	578	170	2360	49	11	.25	.02	.07	.17	0
26	40	1.7	220	171	986	58	10	.21	.02	.09	.16	0
27	101	.85	63	140	842	58	2.7	.18	.02	.10	.15	0
28	36	.66	40	84	1210	43	2.0	.16	.02	.10	.13	0
29	2.7	.60	36	20	470	45	771	.14	.02	.10	.13	2.8
30	1.4	.55	61	8.2	---	45	462	.12	.02	.09	.13	2.8
31	1.4	---	80	3.0	---	36	---	.11	---	.08	.12	---
TOTAL	242.97	201.33	1859.44	11981.2	37838.9	6464	3761.9	1117.61	1.15	.98	4.56	6.37
MEAN	7.84	6.71	60.0	386	1305	209	125	36.1	.038	.032	.15	.21
MAX	101	33	578	3020	8210	766	771	383	.10	.10	.26	2.8
MIN	.05	.55	.54	3.0	2.0	36	2.0	.11	.02	0	.06	0
AC-FT	482	399	3690	23760	75050	12820	7460	2220	2.3	1.9	9.0	13
CAL YR 1979	TOTAL	16301.45	MEAN	44.7	MAX	1460	MIN	0	AC-FT	32330		
WTR YR 1980	TOTAL	63480.41	MEAN	173	MAX	8210	MIN	0	AC-FT	125900		

## 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 mi<sup>2</sup> (15.00 km).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water stage recorder. Altitude of gage is 450 ft (137 m), from topographic map.

REMARKS.--Records fair except those below 2.0 ft<sup>3</sup>/s (0.057 m<sup>3</sup>/s) and those of Nov. 22 to Dec. 18, and Dec. 22-24, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 638 ft<sup>3</sup>/s (18.1 m<sup>3</sup>/s) Jan. 13, 1980, gage height, 4.28 ft (1.305 m); minimum daily, no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft<sup>3</sup>/s (5.7 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 13	1830	*638 18.1	4.28 1.305
Feb. 19	0445	583 16.5	4.08 1.244

Minimum daily discharge, no flow for several months.

REVISIONS.--Peak discharges for water year 1979 have been revised as shown in the following table. They supersede figures published in the report for 1979.

Water Year	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
1979	Jan. 11	1300	245 6.94	2.80 0.853
	15	0030	219 6.20	2.70 0.823
	Feb. 21	0445	274 7.76	2.92 0.890

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.05	2.6	3.4	12	3.0	1.0	.40	.20	.06	
2	0	0	.04	1.8	3.2	15	2.9	1.0	.38	.24	.05	
3	0	1.0	.04	1.5	3.1	14	2.8	.92	.36	.25	.03	
4	0	.41	.04	1.3	3.0	13	3.1	.90	.37	.22	.03	
5	0	.10	.04	1.1	2.8	34	8.7	.90	.39	.22	.02	
6	0	.08	.04	1.1	2.7	34	3.2	.90	.35	.21	0	
7	0	.06	.03	1.1	2.8	17	2.9	.90	.34	.18	0	
8	0	.06	.03	1.1	3.2	14	2.6	.90	.34	.18	0	
9	0	.06	.04	2.6	3.3	12	2.5	1.2	.34	.18	0	
10	0	.06	.04	1.9	3.4	11	2.2	1.1	.34	.18	0	
11	0	.05	.04	54	3.2	9.8	2.1	.82	.34	.18	0	
12	0	.03	.10	84	3.0	9.0	2.0	.82	.34	.18	0	
13	0	.03	.06	179	3.0	8.6	2.0	.82	.41	.18	0	
14	0	.01	.06	41	4.8	7.9	1.9	.82	.32	.18	0	
15	0	0	.05	26	10	7.9	1.9	.77	.24	.18	0	
16	0	1.1	.06	23	29	6.9	1.8	.75	.31	.15	0	
17	0	3.6	.06	25	40	6.6	1.8	.73	.26	.15	0	
18	0	.47	.07	17	26	6.2	1.7	.62	.26	.15	0	
19	.07	.04	.32	12	171	5.6	1.7	.64	.26	.15	0	
20	.01	.04	.31	9.7	83	5.2	1.7	.58	.26	.15	0	
21	0	.03	1.8	8.4	113	5.2	1.7	.57	.26	.15	0	
22	0	.72	.90	7.1	33	4.9	1.9	.61	.26	.15	0	
23	0	2.0	5.0	6.3	22	4.6	1.8	.54	.26	.15	0	
24	0	1.2	48	6.0	17	4.4	1.5	.53	.25	.15	0	
25	3.3	1.5	19	5.6	15	4.7	1.5	.51	.24	.15	0	
26	.12	2.4	4.5	5.1	13	4.2	1.3	.49	.22	.12	0	
27	.06	.17	2.1	4.7	29	4.0	1.2	.50	.22	.09	0	
28	.06	.07	1.5	4.3	19	3.5	1.2	.52	.20	.09	0	
29	.04	.06	1.3	4.0	13	3.4	1.3	.43	.20	.08	0	
30	0	.05	1.8	3.8	---	3.2	1.1	.42	.21	.06	0	
31	0	---	4.6	3.6	---	3.1	---	.42	---	.06	0	---
TOTAL	3.66	15.40	92.02	545.7	677.9	294.9	67.0	22.63	8.93	4.96	.19	0
MEAN	.12	.51	2.97	17.6	23.4	9.51	2.23	.73	.30	.16	.006	0
MAX	3.3	3.6	48	179	171	34	8.7	1.2	.41	.25	.06	0
MIN	0	0	.03	1.1	2.7	3.1	1.1	.42	.20	.06	0	0
AC-FT	7.3	31	183	1080	1340	585	133	45	18	9.8	.4	0
CAL YR 1979	TOTAL	1026.70	MEAN	2.81	MAX	120	MIN	0	AC-FT	2040		
WTR YR 1980	TOTAL	1733.29	MEAN	4.74	MAX	179	MIN	0	AC-FT	3440		

## SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1979 to current year (storm season only).

WATER TEMPERATURES: Water year 1979 to current year.

SEDIMENT RECORDS: Water year 1979 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1978 to current year.

SEDIMENT RECORDS: October 1978 to current year.

REMARKS.--Zero bedload discharge observed at flows less than 8.0 ft<sup>3</sup>/s (0.23 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 17,200 mg/L February 19, 1980; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE: Maximum daily, 15,000 tons (13,600 metric tons) January 13, 1980; minimum daily, 0 ton (0 metric ton) many days.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS (storm season only): Maximum daily mean, 17,200 mg/L February 19; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE (storm season only): Maximum daily, 15,000 tons (13,600 metric tons) January 13; minimum daily, 0 ton (0 metric ton) many days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	---	---	---	---					
2			---	---	---	---	---					
3			---	---	---	---	---					
4			---	9.0	---	---	---					
5			---	---	10.0	---	---					
6			---	---	---	---	---					
7			---	---	---	---	---					
8			---	---	---	---	---					
9			---	10.5	---	---	---					
10			---	---	---	---	---					
11			---	---	---	---	---					
12			---	---	---	---	---					
13			---	---	---	---	---					
14			---	---	---	---	---					
15			---	12.0	11.5	---	---					
16			---	---	---	---	---					
17			---	---	12.0	---	---					
18			---	---	---	---	---					
19			8.0	---	---	9.0	---					
20			---	12.5	12.5	---	---					
21			---	12.0	12.0	---	---					
22			---	---	---	---	10.5					
23			8.5	---	---	---	---					
24			9.0	---	---	---	---					
25			---	---	---	---	---					
26			8.0	---	---	---	---					
27			---	---	14.0	---	---					
28			---	---	13.5	---	---					
29			---	---	12.0	---	---					
30			9.0	---	---	---	---					
31			---	---	---	---	---					

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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							.05	5	0
2							.04	5	0
3							.04	5	0
4							.04	5	0
5							.04	5	0
6							.04	5	0
7							.03	5	0
8							.03	5	0
9							.04	6	0
10							.04	6	0
11							.04	5	0
12							.10	8	0
13							.06	6	0
14							.06	5	0
15							.05	5	0
16							.06	5	0
17							.06	5	0
18							.07	5	0
19							.32	44	.07
20							.31	32	.03
21							1.8	180	2.4
22							.90	130	.32
23							5.0	1110	15
24							48	4300	1000
25							19	1330	95
26							4.5	200	2.4
27							2.1	75	.43
28							1.5	40	.16
29							1.3	25	.09
30							1.8	38	.22
31							4.6	338	9.7
TOTAL							92.02	---	1125.82
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	2.6	120	.84	3.4	50	.46	12	540	17
2	1.8	45	.22	3.2	45	.39	15	898	43
3	1.5	25	.10	3.1	40	.33	14	626	24
4	1.3	12	.04	3.0	35	.28	13	460	16
5	1.1	12	.04	2.8	30	.23	34	3760	504
6	1.1	11	.03	2.7	29	.21	34	4130	500
7	1.1	10	.03	2.8	27	.20	17	1200	55
8	1.1	10	.03	3.2	26	.22	14	800	30
9	2.6	119	1.2	3.3	25	.22	12	590	19
10	1.9	75	.38	3.4	24	.22	11	424	13
11	54	4960	1420	3.2	22	.19	9.8	339	9.0
12	84	9900	3280	3.0	21	.17	9.0	279	6.8
13	179	16100	15000	3.0	20	.16	8.6	230	5.3
14	41	3940	537	4.8	360	5.9	7.9	197	4.2
15	26	1290	92	10	2180	104	7.9	210	4.7
16	23	890	55	29	5410	814	6.9	120	2.2
17	25	2540	224	40	5250	687	6.6	90	1.6
18	17	950	44	26	1580	135	6.2	72	1.2
19	12	600	19	171	17200	12000	5.6	62	.94
20	9.7	400	10	83	8700	4630	5.2	55	.77
21	8.4	310	7.0	113	10300	4910	5.2	50	.70
22	7.1	250	4.8	33	1800	161	4.9	45	.60
23	6.3	200	3.4	22	1380	82	4.6	40	.50
24	6.0	170	2.8	17	1260	58	4.4	35	.42
25	5.6	150	2.3	15	1140	46	4.7	40	.51
26	5.1	130	1.8	13	1020	36	4.2	35	.40
27	4.7	110	1.4	29	3140	558	4.0	33	.36
28	4.3	90	1.0	19	1100	65	3.5	330	3.1
29	4.0	80	.86	13	600	21	3.4	30	.28
30	3.8	70	.72	---	---	---	3.2	30	.26
31	3.6	60	.58	---	---	---	3.1	30	.25
TOTAL	545.7	---	20710.57	677.9	---	24316.18	294.9	---	1265.09

## SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	3.0	30	.24						
2	2.9	28	.22						
3	2.8	27	.20						
4	3.1	51	.48						
5	8.7	451	17						
6	3.2	105	.91						
7	2.9	60	.47						
8	2.6	50	.35						
9	2.5	45	.30						
10	2.2	40	.24						
11	2.1	35	.20						
12	2.0	32	.17						
13	2.0	29	.16						
14	1.9	27	.14						
15	1.9	25	.13						
16	1.8	25	.12						
17	1.8	25	.12						
18	1.7	25	.11						
19	1.7	25	.11						
20	1.7	25	.11						
21	1.7	25	.11						
22	1.9	30	.15						
23	1.8	25	.12						
24	1.5	23	.09						
25	1.5	21	.09						
26	1.3	19	.07						
27	1.2	18	.06						
28	1.2	16	.05						
29	1.3	20	.07						
30	1.1	18	.05						
31	---	---	---						
TOTAL	67.0	---	22.64			0			0
PERIOD	1677.52		47440.30						

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
DECEMBER ...	92.02	1125.82	17	1140
JANUARY 1980	545.70	20710.57	769	21500
FEBRUARY ...	677.90	24316.18	811	25100
MARCH .....	294.90	1265.09	39	1300
APRIL .....	67.00	22.64	0	23
TOTAL .....	1677.52	47440.30		



PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPERATURE, WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT.	BED MAT.	BED MAT.	BED MAT.
					SIEVE DIAM. % FINER THAN .062 MM	SIEVE DIAM. % FINER THAN .125 MM	SIEVE DIAM. % FINER THAN .250 MM	SIEVE DIAM. % FINER THAN .500 MM
DEC								
30...	1000	9.0	1	2.0	1	3	11	21
30...	1005	9.0	1	2.0	1	2	4	6
30...	1010	9.0	1	2.0	--	1	2	6
30...	1015	9.0	1	2.0	--	--	2	10
30...	1020	9.0	1	2.0	--	1	4	23
DATE	TIME	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								
30...	24	37	70	94	99	100	--	
30...	7	10	20	36	67	92	100	
30...	9	14	23	40	71	94	100	
30...	20	31	46	62	77	100	--	
30...	43	60	72	84	93	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 mi<sup>2</sup> (97.1 km<sup>2</sup>).

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 above 250 ft<sup>3</sup>/s (7.08 m<sup>3</sup>/s), fair below. Flow partly regulated since October 1962 by Cull Creek Reservoir, capacity, 310 acre-ft (382,000 m<sup>3</sup>) and since January 1965 by Don Castro Reservoir, 0.9 mi (1.4 km) upstream, capacity, 380 acre-ft (469,000 m<sup>3</sup>). A few very small diversions above station for irrigation.

AVERAGE DISCHARGE.--35 years, 14.9 ft<sup>3</sup>/s (0.422 m<sup>3</sup>/s), 10,800 acre-ft/yr (13.3 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,460 ft<sup>3</sup>/s (211 m<sup>3</sup>/s) Oct. 13, 1962, gage height, 19.73 ft (6.014 m) from floodmarks, from rating curve extended above 2,700 ft<sup>3</sup>/s (76.5 m<sup>3</sup>/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 550 ft<sup>3</sup>/s (16 m<sup>3</sup>/s), revised, and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 13	1945	*3620 103	13.86 4.225
Feb. 19	0545	3280 92.9	13.28 4.048

Minimum daily discharge, 0.28 ft<sup>3</sup>/s (0.008 m<sup>3</sup>/s), Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	17	4.2	21	20	75	21	6.2	5.0	1.9	.53	4.4
2	7.7	13	3.6	12	18	101	20	4.7	4.9	5.2	1.5	4.0
3	7.7	12	2.6	9.6	17	88	20	7.5	5.7	4.3	1.1	3.7
4	6.9	5.5	3.2	7.0	16	79	24	6.8	4.3	3.9	1.4	1.2
5	5.1	3.0	3.6	6.6	15	179	72	7.9	5.0	4.2	1.5	.70
6	1.1	3.4	4.4	6.4	14	182	22	6.9	5.7	4.4	1.2	1.7
7	1.3	4.0	3.7	6.2	14	106	18	7.2	4.1	2.5	.47	1.4
8	2.0	5.0	3.8	6.0	13	84	17	5.8	3.3	1.5	.56	.46
9	2.5	5.2	3.4	16	13	71	17	13	3.5	2.3	2.0	1.5
10	3.5	4.9	20	12	14	59	15	13	4.5	2.0	1.2	.92
11	.61	5.8	18	254	13	52	13	8.5	2.9	2.1	1.8	.29
12	1.8	3.8	2.7	449	13	48	12	11	3.1	2.6	1.6	.29
13	1.2	4.0	2.0	1050	13	44	10	9.4	3.4	2.6	1.9	.44
14	.51	4.4	3.5	394	40	41	12	8.9	3.1	2.3	5.4	.72
15	1.9	3.7	5.2	155	80	38	12	6.5	6.3	2.0	2.3	.35
16	1.7	10	1.8	138	230	36	10	8.6	11	1.2	3.4	.46
17	1.1	18	3.1	165	260	34	11	6.4	6.7	1.7	1.8	1.2
18	1.2	3.3	2.9	109	170	32	9.8	5.3	2.5	2.1	1.4	.83
19	26	2.6	8.2	76	1260	31	9.8	4.9	3.2	2.1	1.7	.56
20	9.9	3.0	5.6	58	438	30	12	5.6	3.3	2.0	1.5	1.4
21	4.1	2.1	5.8	49	579	29	12	4.1	2.5	2.2	5.1	1.8
22	5.3	8.9	4.0	41	220	28	16	5.3	2.2	2.0	4.9	.57
23	1.9	11	25	35	128	26	16	3.8	2.8	2.1	5.3	.28
24	8.0	5.6	154	31	105	28	13	4.6	3.1	2.2	3.8	1.4
25	53	7.6	112	29	92	30	11	4.3	3.1	1.5	1.9	.90
26	8.6	8.0	29	27	83	29	11	5.6	1.9	2.3	14	1.4
27	2.4	5.9	16	26	145	27	9.2	4.3	2.4	1.2	29	.75
28	4.9	3.1	13	24	108	25	9.6	4.8	1.9	4.0	24	1.2
29	3.8	5.8	14	23	78	24	9.9	4.4	1.6	2.6	13	1.3
30	3.8	3.0	24	21	---	22	7.6	5.5	2.8	.98	3.8	.48
31	6.9	---	36	21	---	20	---	7.4	---	1.3	2.9	---
TOTAL	188.92	192.6	538.3	3277.8	4209	1698	472.9	208.2	115.8	75.28	141.96	36.60
MEAN	6.09	6.42	17.4	106	145	54.8	15.8	6.72	3.86	2.43	4.58	1.22
MAX	53	18	154	1050	1260	182	72	13	11	5.2	29	4.4
MIN	.51	2.1	1.8	6.0	13	20	7.6	3.8	1.6	.98	.47	.28
AC-FT	375	382	1070	6500	8350	3370	938	413	230	149	282	73
CAL YR 1979 TOTAL	5529.90			MEAN 15.2	MAX 409	MIN .05	AC-FT 10970					
WTR YR 1980 TOTAL	11155.36			MEAN 30.5	MAX 1260	MIN .28	AC-FT 22130					

## 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 mi<sup>2</sup> (2.54 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1980 (discontinued).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 310 ft (94.5 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37 ft<sup>3</sup>/s (1.05 m<sup>3</sup>/s) Jan 13, 1980, gage height, 2.30 ft (0.701 m); no flow many days.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft<sup>3</sup>/s (0.6 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)		Gage height (ft) (m)	
Jan. 13	1215	*37	1.05	2.30	0.701
Feb. 19	0415	28	0.79	2.07	0.631

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.04	.02	.03	.12	.77	.24	.10	.04	.01	.01	.01
2	0	.02	.02	.02	.11	.87	.22	.09	.04	.02	.01	.01
3	.01	.17	.03	.02	.11	.80	.20	.09	.03	.02	.01	.01
4	0	.01	.04	.02	.11	.74	.27	.08	.03	.01	.01	.01
5	0	0	.04	.01	.10	1.5	.59	.13	.04	.01	.01	.01
6	0	0	.04	.01	.10	2.2	.28	.10	.03	.01	.01	.01
7	0	0	.03	.01	.10	1.1	.24	.08	.03	.01	.01	.01
8	0	0	.04	.01	.09	.92	.22	.09	.03	.01	.01	.01
9	0	0	.04	.05	.09	.81	.22	.15	.03	.01	.01	.01
10	0	0	.04	.07	.10	.76	.21	.11	.03	.01	.01	0
11	0	0	.04	2.9	.09	.69	.19	.09	.03	.01	.01	0
12	0	0	.03	3.3	.09	.64	.17	.12	.03	.01	.01	0
13	0	0	.03	11	.10	.61	.16	.10	.04	.01	0	0
14	0	0	.03	6.7	.25	.59	.15	.09	.02	.01	0	0
15	0	0	.03	1.1	.63	.55	.15	.08	.02	.01	0	0
16	0	.03	.03	.98	2.4	.52	.15	.07	.02	.01	0	0
17	0	.01	.03	.93	2.5	.50	.14	.06	.01	.01	0	0
18	0	.01	.03	.58	2.2	.48	.13	.07	.01	.01	0	0
19	.02	.01	.03	.43	14	.42	.13	.06	.02	.01	0	0
20	0	0	.02	.32	7.5	.38	.16	.05	.02	.02	0	0
21	.01	.01	.02	.28	9.7	.38	.16	.06	.02	.02	0	0
22	.01	.01	.02	.23	3.8	.36	.19	.06	.01	.02	0	0
23	.01	.01	1.9	.20	1.8	.34	.15	.06	.01	.02	0	0
24	.01	.13	3.5	.20	1.1	.32	.13	.04	.01	.02	0	0
25	.28	.31	1.1	.19	.92	.35	.12	.04	.01	.02	0	0
26	.03	.15	.14	.18	.81	.32	.12	.04	.01	.01	0	0
27	.01	.01	.02	.16	1.6	.46	.12	.04	.01	.01	.01	0
28	.05	.01	.01	.15	1.2	.46	.12	.04	.01	.01	.01	0
29	.04	.02	.01	.13	.85	.40	.11	.04	.01	.01	.01	0
30	.05	.02	.04	.12	---	.25	.11	.04	.01	.01	.01	0
31	.05	---	.12	.12	---	.25	---	.04	---	.01	.01	---
TOTAL	.58	.98	7.52	30.45	52.57	19.74	5.55	2.31	.66	.39	.17	.09
MEAN	.019	.033	.24	.98	1.81	.64	.19	.075	.022	.013	.006	.003
MAX	.28	.31	3.5	11	14	2.2	.59	.15	.04	.02	.01	.01
MIN	0	0	.01	.01	.09	.25	.11	.04	.01	.01	0	0
AC-FT	1.2	1.9	15	60	104	39	11	4.6	1.3	.8	.3	.2
CAL YR 1979	TOTAL	69.33	MEAN .19	MAX	7.7	MIN 0	AC-FT 138					
WTR YR 1980	TOTAL	121.01	MEAN .33	MAX	14	MIN 0	AC-FT 240					

## 11181004 CASTRO VALLEY CREEK AT CASTRO VALLEY, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD. --

**CHEMICAL ANALYSES:** Water years 1979 to current year.

INSTRUMENTATION.--Water-quality sampler since November 1978.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (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)
OCT 11...	1400	1110	6.5	22.0	38	580	260	130	63	120
NOV 30...	1000	1865	7.5	19.0	27	750	390	160	85	160
JAN 18...	0500	336	6.0	11.0	140	120	13	28	13	24
24...	1300	790	7.3	6.0	34	320	71	74	33	57
FEB 25...	1200	326	6.5	10.0	120	130	37	29	13	21
28...	1200	--	7.5	8.0	78	210	49	49	21	34
MAR 04...	1100	648	7.6	6.0	33	--	--	--	--	--
07...	1100	456	7.1	5.0	75	190	47	42	20	30
26...	1300	--	--	--	--	--	--	--	--	--
28...	1300	730	8.2	9.0	14	320	67	74	32	52
APR 07...	1300	--	--	--	150	--	--	--	--	--

[illegible][illegible]

11181004 CASTRO VALLEY CREEK AT CASTRO VALLEY, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT									
11...	2	0	10	0	3400	0	.2	0	100
NOV									
30...	3	0	7	1	5600	13	.1	0	70
JAN									
18...	6	23	10	100	48000	210	.2	100	300
24...	1	1	0	17	3100	150	.3	0	70
FEB									
25...	9	2	0	70	50000	83	.8	100	200
28...	3	6	0	50	26000	300	2.6	100	190
MAR									
04...	--	1	2	44	7300	160	--	--	80
07...	5	4	10	40	1900	170	2.2	100	150
26...	--	--	--	--	--	100	--	--	120
28...	0	0	3	8	1100	29	1.7	0	30
APR									
07...	--	--	--	--	--	600	--	--	500

## 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 mi<sup>2</sup> (5.70 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 11, 1980 (discontinued).

GAGE.--Water-storage recorder and concrete control. Altitude of gage is 130 ft (39.6 m), from topographic map.

REMARKS.--Records fair, except those of peak recorded gage heights which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft<sup>3</sup>/s (8.5 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Oct. 25	0730	*592 16.8	5.68 1.731	Feb. 19	0345	375 10.6	4.71 1.436
Jan. 13	1200	349 9.88	4.57 1.393				

Minimum daily discharge, 0.01 ft<sup>3</sup>/s (<0.001 m<sup>3</sup>/s) many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.04	.04	.35	.14	.82	.18					
2	.02	.05	.05	.18	.16	4.0	.18					
3	.03	5.0	.06	.13	.16	1.6	.23					
4	.02	.12	.06	.11	.16	1.4	3.5					
5	.01	.03	.06	.09	.14	6.0	9.0					
6	.02	.03	.06	.08	.14	5.5	.61					
7	.01	.38	.06	.09	.14	2.8	.25					
8	.01	.05	.07	.71	.14	1.7	.26					
9	.01	.02	.06	3.6	.14	.75	.31					
10	.01	.03	.07	3.4	.15	.65	.25					
11	.02	.03	.08	22	.16	.55	.24					
12	.02	.03	.09	8.2	.16	.52	.21					
13	.02	.03	.08	30	.16	.48	.20					
14	.03	.03	.05	5.4	1.4	.98	.21					
15	.02	.04	.05	4.0	11	.75	.19					
16	.02	7.6	.05	3.0	30	.65	.20					
17	.03	.99	.08	3.6	12	.60	.16					
18	.85	.05	.09	1.1	4.2	.64	.16					
19	5.5	.04	2.8	.68	62	.65	.18					
20	.22	.03	1.0	.44	36	.50	1.4					
21	.03	.03	.09	.39	27	.49	.13					
22	.03	3.3	.10	.34	9.2	.44	---					
23	.03	.25	22	.24	2.5	.39	---					
24	.03	1.1	26	.22	1.7	.34	---					
25	16	.50	13	.23	1.4	1.3	---					
26	.08	.16	.64	.23	1.1	.25	---					
27	.05	.03	.21	.21	14	.26	---					
28	.03	.03	.17	.20	2.8	.20	---					
29	.03	.03	.16	.18	.99	.21	---					
30	.23	.03	2.5	.15	---	.19	---					
31	.06	---	5.6	.14	---	.19	---					
TOTAL	23.50	20.08	75.43	89.69	219.24	35.80	---					
MEAN	.76	.67	2.43	2.89	7.56	1.15	---					
MAX	16	7.6	26	30	62	6.0	---					
MIN	.01	.02	.04	.08	.14	.19	---					
AC-FT	47	40	150	178	435	71	---					

CAL YR 1979 TOTAL 425.61 MEAN 1.17 MAX 41 MIN .01 AC-FT 844

11181006 CASTRO VALLEY CREEK AT KNOX STREET, AT CASTRO VALLEY, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD. --

CHEMICAL ANALYSES: Water years 1979 to current year.

INSTRUMENTATION.--Water-quality sampler since November 1978.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS _CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	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, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
DATE	SODIUM PERCENT							
OCT								
11...	36	2.8	4.5	260	240	300	1060	1
22...	25	.7	4.0	51	32	27	165	354
NOV								
03...	29	.5	1.6	18	16	12	79	396
17...	29	.5	1.8	21	13	8.8	73	132
25...	33	.8	2.5	42	22	18	121	40
30...	38	3.0	4.5	300	230	290	1130	0
DEC								
20...	--	--	--	--	--	--	--	--
25...	33	.7	1.8	25	17	13	95	112
31...	33	.8	1.5	42	23	19	115	83
JAN								
18...	30	.8	2.4	64	27	18	148	534
24...	33	2.1	2.3	290	160	150	798	11
FEB								
25...	29	.8	1.7	55	34	20	157	298
28...	27	.6	1.7	43	22	13	117	596
MAR								
04...	--	--	--	--	--	--	--	--
07...	30	1.0	1.5	91	43	27	214	306
26...	--	--	--	--	--	--	--	--
28...	35	2.1	2.0	230	150	130	678	5
APR								
07...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--

## SAN LORENZO CREEK BASIN

11181006 CASTRO VALLEY CREEK AT KNOX STREET, AT CASTRO VALLEY, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	SOLIDS, NON- VOLATILE, SUS- PENDED (MG/L)	SOLIDS, VOLATILE, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA 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)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT									
11...	1220	0	1	.60	.10	1.1	1.7	.47	.36
22...	490	256	98	1.7	.37	7.5	9.2	.81	.21
NOV									
03...	495	330	66	.73	.08	2.8	3.5	.56	.09
17...	192	94	38	1.2	.15	1.7	2.9	.30	.08
25...	140	8	32	.67	.11	1.2	1.9	.22	.07
30...	1190	0	0	2.6	2.4	3.2	5.8	1.20	.93
DEC									
20...	232	--	--	--	--	--	--	--	--
25...	226	94	18	1.9	.12	.35	2.3	.44	.31
31...	221	61	22	.78	.04	1.8	2.6	.25	.05
JAN									
18...	694	434	100	1.9	.16	3.0	4.9	.71	.24
24...	827	7	4	2.9	.02	.59	3.5	.13	.10
FEB									
25...	486	264	34	1.5	.13	2.0	3.5	.45	.15
28...	674	516	80	.88	.06	2.5	3.4	.15	.17
MAR									
04...	342	--	--	--	--	--	--	--	--
07...	527	250	56	1.1	.06	1.5	2.6	.39	.11
26...	306	--	--	--	--	--	--	--	--
28...	689	4	1	1.4	.00	1.2	2.6	--	.40
APR									
07...	180	--	--	--	--	--	--	--	--
22...	517	--	--	--	--	--	--	--	--
23...	190	--	--	--	--	--	--	--	--
DATE	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT									
11...	3	0	20	0	270	0	.6	0	90
22...	4	10	60	700	14000	3300	.4	0	2200
NOV									
03...	2	2	1	140	11000	1000	.2	0	740
17...	1	5	0	220	5700	810	.2	0	340
25...	1	3	1	60	5000	440	.1	0	250
30...	3	0	3	0	230	8	.1	0	80
DEC									
20...	--	--	--	--	--	1100	--	--	630
25...	5	1	6	21	4700	97	.1	--	140
31...	2	3	42	270	7700	490	.1	100	300
JAN									
18...	6	12	0	44	20000	150	.2	100	170
24...	2	1	1	23	1400	76	.0	0	70
FEB									
25...	5	10	1	39	11000	260	.8	0	180
28...	4	7	0	50	16000	300	2.5	100	250
MAR									
04...	--	1	1	30	5600	300	--	--	210
07...	5	2	5	36	9500	190	1.8	100	150
26...	--	--	--	--	--	400	--	--	300
28...	1	0	2	13	750	41	2.3	0	60
APR									
07...	--	--	--	--	--	200	--	--	260
22...	--	--	--	--	--	600	--	--	390
23...	--	--	--	--	--	400	--	--	210



## 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 mi<sup>2</sup> (14.27 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year (seasonal records only, water years 1975-77).

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 100 ft (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.

AVERAGE DISCHARGE.--6 years (water years 1972-74, 1978-80), 4.40 ft<sup>3</sup>/s (0.125 m<sup>3</sup>/s), 3,190 acre-ft/yr (3.93 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 670 ft<sup>3</sup>/s (19.0 m<sup>3</sup>/s) Jan. 8, 1979, gage height, 7.20 ft (2.195 m), from rating curve extended above 53 ft<sup>3</sup>/s (1.50 m<sup>3</sup>/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 ft<sup>3</sup>/s (14 m<sup>3</sup>/s) and maximum (\*) from rating curve extended as explained above:

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Oct. 25	0720	*661 18.7	7.11 2.167	Feb. 19	unknown	592 16.8	6.42 1.957
Jan. 13	1150	580 16.4	6.31 1.923	Feb. 27	1620	504 14.3	5.59 1.704

Minimum daily discharge, 0.08 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.62	.21	1.8	.58	3.0	.71	.38	.35	.22	.23	.18
2	.12	.16	.21	1.1	.60	16	.69	.45	.29	2.3	.18	.15
3	.13	20	.18	.88	.66	6.2	.74	.38	.29	.22	.15	.09
4	.39	.44	.18	.88	.66	5.2	14	.38	.38	.18	.15	.09
5	.14	.24	.18	.67	.60	24	34	.35	.29	.20	.13	.11
6	.13	.20	.18	.58	.60	22	2.0	.49	.29	.18	.14	.10
7	.14	1.4	.18	.53	.60	4.6	1.1	.45	.32	.20	.14	.15
8	.13	.25	.19	2.0	.60	3.5	1.0	.42	.32	.18	.15	.11
9	.12	.18	.18	14	.60	3.0	1.0	6.8	.32	.18	.14	.08
10	.12	.19	.18	14	.67	2.6	.88	.53	.27	.19	.14	.09
11	.43	.19	.18	91	.72	2.6	.83	.42	.24	.19	.16	.11
12	.12	.18	.16	29	.72	2.2	.77	1.3	.24	.17	.18	.11
13	.21	.20	.55	119	.72	1.9	.72	.42	.29	.17	.18	.12
14	.22	.19	.16	13	4.0	2.4	.67	.38	.29	.18	.16	.11
15	.12	.55	.16	13	30	1.7	.58	.35	.32	.18	.11	.11
16	.09	26	.16	7.5	120	1.4	.58	.35	.45	.19	.13	.15
17	.41	3.3	.16	8.6	35	1.3	.53	.38	.27	.19	.13	.10
18	1.6	.34	.16	3.2	12	1.3	.53	.42	.27	.15	.13	.10
19	22	.27	14	2.3	200	1.2	.53	.38	.24	.20	.13	.10
20	.59	.21	3.8	1.6	90	1.0	4.3	.35	.24	.17	.13	.13
21	.19	.19	.74	1.4	63	1.2	3.6	.32	.22	.17	.14	.12
22	.15	13	.41	1.1	11	1.0	9.2	.29	.22	.15	.14	.20
23	.14	.99	70	.94	5.9	.95	.67	.32	.27	.16	.14	.12
24	.12	4.5	102	.88	4.4	.88	.49	.29	.29	.15	.14	.12
25	64	2.1	39	.88	3.6	5.4	.45	.29	.22	.18	.14	.12
26	.52	.62	3.0	.77	3.0	1.0	.42	.32	.24	.17	.19	.11
27	.30	.32	1.4	.67	32	.94	.42	.29	.22	.17	.13	.11
28	.24	.24	.95	.67	6.7	.82	.38	.27	.24	.17	.12	.10
29	.18	.64	.75	1.4	3.6	.83	.42	.29	.24	.17	.11	.11
30	.40	.23	8.0	.60	---	.78	.42	.32	.24	.14	.11	.11
31	.22	---	20	.58	---	1.2	---	.35	---	.16	.12	---
TOTAL	93.82	77.94	267.61	334.53	632.53	122.10	82.63	18.73	8.37	7.73	4.47	3.51
MEAN	3.03	2.60	8.63	10.8	21.8	3.94	2.75	.60	.28	.25	.14	.12
MAX	64	26	102	119	200	24	34	6.8	.45	2.3	.23	.20
MIN	.09	.16	.16	.53	.58	.78	.38	.27	.22	.15	.11	.08
AC-FT	186	155	531	664	1250	242	164	37	17	15	8.9	7.0
(†)	2.75	2.21	4.71	4.15	6.77	1.53	1.56	--	--	--	--	--
(‡)	2.58	2.13	4.89	4.07	6.64	1.58	--	--	--	--	--	--

CAL YR 1979 TOTAL 1613.82 MEAN 4.42 MAX 163 MIN .09 AC-FT 3200  
WTR YR 1980 TOTAL 1653.97 MEAN 4.52 MAX 200 MIN .08 AC-FT 3280

† Precipitation, in inches, at Proctor School Raingage at Castro Valley.

‡ Precipitation, in inches, at Sydney School Raingage at Castro Valley (no record during month of April).

## SAN LORENZO CREEK BASIN

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1972-73, 1975, 1977, and 1980.

SEDIMENT RECORDS: Water years 1972, 1973 (partial-record station).

INSTRUMENTATION.--Water-quality sampler since March 1980.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (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)
MAR										
26...	1345	--	--	--	--	--	--	--	--	--
28...	1345	1090	8.3	11.0	28	350	84	71	43	97
APR										
07...	1345	433	--	13.5	63	--	--	--	--	--
22...	1230	--	--	--	--	--	--	--	--	--
23...	1345	--	--	--	--	--	--	--	--	--

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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
MAR									
26...	--	--	--	--	--	--	--	--	--
28...	37	2.2	1.7	270	140	120	671	.91	2
APR									
07...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	SOLIDS, NON- VOLATILE, SUS- PENDED (MG/L)	SOLIDS, VOLATILE, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA 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)	PHOS- PHORUS, ORTHOPHOS- PHATE, DIS- SOLVED (MG/L AS P)
MAR									
26...	514	--	--	--	--	--	--	--	--
28...	682	1	1	4.1	.00	1.3	5.4	.09	.09
APR									
07...	336	--	--	--	--	--	--	--	--
22...	278	--	--	--	--	--	--	--	--
23...	203	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
MAR									
26...	--	--	--	--	--	100	--	--	130
28...	1	0	3	9	80	6	2.2	0	50
APR									
07...	--	--	--	--	--	100	--	--	280
22...	--	--	--	--	--	0	--	--	170
23...	--	--	--	--	--	100	--	--	160

## 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, CA, 0.1 mi (0.2 km) upstream from inflow to Lake Temescal.

DRAINAGE AREA.--1.74 mi<sup>2</sup> (4.51 km<sup>2</sup>).

## WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 395 ft (120 m) from topographic map. Recording rain gage near Lake Temescal, altitude, 1,250 ft (381 m) at site 1.8 mi (2.9 km) southeast of gaging station.

REMARKS.--Records good except those for periods of no gage-height record, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 75 ft<sup>3</sup>/s (2.1 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Oct. 25	0700	97 2.75	3.47 1.058	Jan. 11	2200	89 2.52	3.29 1.003
Nov. 3	1115	77 2.18	3.04 .927	Feb. 16	1730	97 2.75	3.48 1.061
Dec. 21	0800	95 2.69	3.44 1.049	Feb. 19	0315	*140 3.96	4.37 1.332
Dec. 24	1345	119 3.37	3.96 1.207				

Minimum daily discharge, 0.01 ft<sup>3</sup>/s (<0.001 m<sup>3</sup>/s) many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.10	.28	.50	.51	1.7	.33	.32	.25	.23	.19	.04
2	.05	.10	.27	.45	.50	3.3	.31	.31	.25	.37	.23	.04
3	.04	6.8	.26	.42	.50	1.6	.31	.31	.26	.21	.19	.04
4	.04	.63	.23	.38	.50	3.1	2.4	.31	.32	.21	.18	.04
5	.04	.11	.22	.37	.50	7.4	7.8	.30	.29	.19	.19	.03
6	.04	.10	.23	.33	.50	3.9	.53	.30	.25	.20	.19	.03
7	.06	.13	.18	.29	.50	1.9	.45	.30	.25	.21	.19	.02
8	.06	.12	.20	.33	.52	1.3	.42	.29	.24	.23	.16	.01
9	.05	.11	.20	2.8	.51	1.2	.41	2.5	.23	.24	.14	.01
10	.04	.10	.20	2.1	.51	1.0	.41	.40	.23	.27	.13	.01
11	.04	.10	.20	24	.50	.95	.41	.32	.23	.25	.12	.01
12	.05	.10	.22	12	.50	.91	.41	.31	.23	.19	.13	.01
13	.03	.09	.17	18	.50	.89	.40	.30	.24	.19	.12	.01
14	.39	.10	.24	5.5	4.7	.88	.38	.29	.24	.19	.12	.01
15	.09	.08	.19	3.3	4.3	.86	.39	.28	.23	.18	.12	.01
16	.05	3.9	.19	2.6	12	.84	.39	.28	.24	.17	.09	.01
17	.05	.63	.20	4.3	9.4	.83	.38	.27	.24	.17	.09	.01
18	.72	.14	.20	1.9	5.7	.80	.38	.26	.25	.19	.09	.01
19	2.0	.11	1.1	1.3	27	.76	.36	.26	.27	.19	.08	.01
20	.66	.13	.47	.90	15	.70	.96	.26	.27	.17	.08	.01
21	.03	.12	5.1	.73	19	.65	1.4	.25	.25	.18	.07	.01
22	.02	2.3	.28	.68	4.6	.60	.71	.25	.24	.18	.07	.01
23	.03	.60	12	.64	3.3	.56	.38	.25	.29	.18	.07	.01
24	.02	.40	25	.60	3.0	.53	.37	.25	.23	.19	.07	.02
25	8.2	.55	4.0	.58	1.9	.79	.35	.25	.23	.17	.06	.01
26	.13	.52	.56	.56	1.5	.40	.34	.25	.24	.18	.07	.01
27	.09	.45	.39	.54	8.6	.38	.33	.25	.22	.17	.06	.01
28	.09	.38	.29	.53	3.7	.36	.33	.25	.22	.17	.05	.01
29	.09	.34	.25	.52	2.3	.34	.32	.25	.22	.17	.04	.02
30	.11	.30	3.3	.52	---	.33	.32	.25	.23	.19	.04	.01
31	.10	---	1.4	.51	---	.34	---	.25	---	.19	.04	---
TOTAL	13.45	19.64	58.02	88.18	132.55	40.10	22.68	10.92	7.38	6.22	3.47	.49
MEAN	.43	.65	1.87	2.84	4.57	1.29	.76	.35	.25	.20	.11	.016
MAX	8.2	6.8	.25	.24	.27	7.4	7.8	2.5	.32	.37	.23	.04
MIN	.02	.08	.17	.29	.50	.33	.31	.25	.22	.17	.04	.01
AC-FT	27	39	115	175	263	80	45	22	15	12	6.9	1.0
(†)	--	--	7.2	7.2	9.7	2.1	2.8	--	0	0.2	0	0

WTR YR 1980 TOTAL 403.10 MEAN 1.10 MAX 27 MIN .01 AC-FT 800

† Precipitation, in inches.

## TEMESCAL CREEK BASIN

11181330 TEMESCAL CREEK ABOVE LAKE TEMESCAL AT OAKLAND, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1979 to current year.

CHEMICAL ANALYSES: Water year 1979 to current year.

SEDIMENT RECORDS: October 1979 to September 1980.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
OCT							
20...	0800	--	--	--	352	.71	.16
25...	1100	--	--	--	248	--	--
NOV							
03...	1700	--	--	14.0	328	1.5	.05
17...	2200	--	--	--	344	1.4	.12
22...	1700	--	--	--	242	.74	.08
24...	1200	--	--	--	37	.78	.12
DEC							
20...	0800	240	8.2	--	198	.88	.42
21...	0830	260	7.6	--	722	1.3	.07
25...	0300	480	7.7	--	286	4.3	.04
30...	0900	290	7.4	--	392	.93	.05
31...	1300	320	7.7	--	105	.95	.05
FEB							
17...	1800	425	7.8	--	214	2.2	.03

DATE	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)
OCT						
20...	.87	.05	2.9	2.9	3.8	.45
25...	--	--	--	--	--	.37
NOV						
03...	1.5	.02	1.4	1.4	2.9	.06
17...	1.5	.09	--	--	--	.49
22...	.82	.05	1.7	1.7	2.5	.35
24...	.90	.03	.92	.95	1.9	.18
DEC						
20...	1.3	.23	3.2	3.4	4.7	.42
21...	1.4	.06	2.4	2.5	3.9	.65
25...	4.3	.01	1.8	1.8	6.1	.33
30...	.98	.04	2.3	2.3	3.3	.41
31...	1.0	.02	1.6	1.6	2.6	.21
FEB						
17...	2.2	.06	1.3	1.4	3.6	.25

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
DEC								
19...	1440	12.0	.68	123	.23	--	--	--
24...	1135	10.5	32	534	46	--	--	--
24...	1145	10.5	38	624	64	--	--	--
24...	1215	10.5	45	952	116	--	33	43
24...	1425	10.5	96	4170	1080	--	36	47
24...	1440	10.5	84	3020	685	--	--	--
24...	1515	10.5	75	1650	334	--	28	36
24...	1535	10.5	60	1710	277	--	--	--
30...	1245	12.0	14	760	29	--	--	--
JAN								
09...	1300	12.5	8.7	176	4.1	--	--	--
09...	1345	12.0	3.9	147	1.5	--	--	--
FEB								
14...	1045	10.5	4.3	417	4.8	65	81	89
14...	1145	10.5	1.4	335	1.3	--	--	--
16...	1400	13.0	3.3	125	1.1	--	--	--
MAR								
25...	1045	13.0	.64	211	.36	--	--	--

11181330 TEMESCAL CREEK ABOVE LAKE TEMESCAL AT OAKLAND, CA--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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								
19...	--	--	94	--	--	--	--	--
24...	--	--	61	--	--	--	--	--
24...	--	--	57	--	--	--	--	--
24...	52	66	79	87	94	98	100	--
24...	56	67	79	88	95	98	100	--
24...	--	--	61	--	--	--	--	--
24...	43	53	66	77	88	96	99	100
24...	--	--	56	--	--	--	--	--
30...	--	--	88	--	--	--	--	--
JAN								
09...	--	--	91	95	97	99	100	--
09...	--	--	97	--	--	--	--	--
FEB								
14...	96	99	99	100	--	--	--	--
14...	--	--	97	--	--	--	--	--
16...	--	--	98	--	--	--	--	--
MAR								
25...	--	--	99	--	--	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM
DEC							
04...	1310	1	.25	--	2	6	16
04...	1315	1	.25	--	2	8	22
04...	1320	1	.25	1	6	28	48
DATE		BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
DEC							
04...		36	54	70	80	100	--
04...		39	54	70	80	91	100
04...		61	68	75	79	89	100

## TEMESCAL CREEK BASIN

11181335 CALDECOTT CREEK AT LAKE TEMESCAL, AT OAKLAND, CA

LOCATION.--Lat 37°50'48", long 122°13'40", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002, on left bank, at Oakland, CA, 10 ft (3 m) downstream from culvert, 50 ft (15 m) upstream from inflow to Lake Temescal.

DRAINAGE AREA.--0.83 mi<sup>2</sup> (2.15 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1979 to September 1980.

GAGE.--Water-stage recorder and wooden dam control in culvert. Altitude of gage is 390 ft (119 m) from topographic map.

REMARKS.--Records fair except those for periods of backwater from Lake Temescal. Record computed to April 30, 1980, when temporary dam negates useful record.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; minimum daily, not determined.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	.09	.39	.34	.80	.30					
2		---	.09	.30	.33	1.5	.26					
3		---	.10	.26	.31	.80	.25					
4		---	.10	.26	.30	1.0	.50					
5		---	.09	.26	.29	2.4	2.0					
6		---	.09	.24	.32	1.5	.70					
7		---	.11	.21	.32	1.0	.40					
8		---	.10	.22	.32	.80	.34					
9		---	.09	.50	.32	.70	.30					
10		---	.11	2.5	.32	.65	.26					
11		---	.11	8.0	.32	.60	.25					
12		---	.09	10	.32	.56	.24					
13		---	.09	3.0	.32	.53	.23					
14		---	.09	4.8	1.7	.50	.23					
15		---	.11	2.0	2.1	.48	.22					
16		---	.11	2.5	5.9	.46	.22					
17		---	.08	1.5	4.0	.44	.20					
18		---	.08	1.0	1.0	.42	.19					
19		---	.32	.80	10	.39	.19					
20		---	.15	.60	8.0	.37	.30					
21		.12	.48	.52	6.9	.36	.80					
22		.78	.11	.48	2.0	.34	.50					
23		.12	5.1	.45	1.5	.32	.35					
24		.22	19	.42	1.9	.31	.30					
25		.16	2.0	.40	1.0	.66	.25					
26		.12	.60	.40	.60	.29	.23					
27		.11	.40	.39	2.9	.29	.21					
28		.10	.33	.38	2.0	.28	.20					
29		.09	.30	.37	1.3	.28	.19					
30		.09	1.0	.36	---	.34	.19					
31		---	.73	.35	---	.30	---					
TOTAL		---	32.25	43.86	56.93	19.67	10.80	---				
MEAN		---	1.04	1.41	1.96	.63	.36	---				
MAX		---	19	10	10	2.4	2.0	---				
MIN		---	.08	.21	.29	.28	.19	---				
AC-FT		---	64	87	113	39	21	---				

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to September 1980.

CHEMICAL ANALYSES: October 1979 to September 1980.

SEDIMENT RECORDS: October 1979 to September 1980.

REMARKS.--Jan. 9 and Feb. 16 sediment samples partially affected by backwater conditions.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

11181335 CALDECOTT CREEK AT LAKE TEMESCAL AT OAKLAND, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT									
18...	1030	.04	1450	6.1	16.0	6.9	K340	2500	11
20...	1500	--	--	--	--	--	--	--	124
24...	1000	--	1450	6.2	16.5	6.6	K180	800	5
31...	1030	.06	1350	6.7	15.5	7.9	>6000	1100	0
NOV									
03...	1230	--	--	--	--	--	--	--	934
17...	0600	--	--	--	--	--	--	--	--
22...	1700	--	--	--	--	--	--	--	358
24...	1200	--	--	--	--	--	--	--	26
DEC									
18...	1015	--	1530	6.7	14.0	--	K20	K130	--
20...	0800	--	410	7.5	--	--	--	--	74
21...	0830	--	580	7.6	--	--	--	--	152
25...	0300	--	880	7.5	--	--	--	--	448
30...	0900	--	930	7.5	--	--	--	--	308
31...	1300	--	720	7.6	--	--	--	--	198
FEB									
17...	2300	--	690	7.5	--	--	--	--	--
MAY									
14...	1220	--	940	7.4	17.5	--	--	--	8
28...	1135	--	870	7.7	17.5	--	--	--	1
JUL									
07...	1050	--	1800	6.8	16.5	--	--	--	1
30...	1015	--	1080	7.1	17.5	--	--	--	6
AUG									
14...	0838	--	1300	6.9	15.5	--	--	--	9
SEP									
03...	0955	--	1200	7.6	17.0	--	--	--	6
24...	0925	--	1400	6.7	15.5	--	--	--	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)
OCT								
18...	.15	.02	.17	.06	1.8	1.9	2.1	.02
20...	.68	.26	.94	.22	1.6	1.8	2.7	.19
24...	.29	.02	.31	.01	.31	.32	.63	.03
31...	.52	.03	.55	.00	.62	.62	1.2	.04
NOV								
03...	--	--	--	--	--	--	--	--
17...	1.3	.10	1.4	.07	.59	.66	2.1	.39
22...	.68	.16	.84	.11	1.7	1.8	2.6	.56
24...	.80	.16	.96	.03	.90	.93	1.9	.10
DEC								
18...	--	--	--	--	--	--	--	--
20...	1.4	.13	1.5	.29	2.2	2.5	4.0	.91
21...	.64	.09	.73	.00	1.2	1.2	1.9	.15
25...	1.8	.02	1.8	.01	1.7	1.7	3.5	.48
30...	.60	.03	.63	.02	1.8	1.8	2.4	.44
31...	.41	.04	.45	.04	1.8	1.8	2.3	.30
FEB								
17...	.83	.01	.84	.04	1.1	1.1	1.9	.30
MAY								
14...	.23	.03	.26	.14	.96	1.1	1.4	.04
28...	.03	.01	.04	.09	.60	.69	.73	.05
JUL								
07...	.14	.00	.14	.02	.72	.74	.88	.07
30...	.27	.01	.28	.03	.64	.67	.95	.04
AUG								
14...	.74	.02	.76	.03	.79	.82	1.6	.05
SEP								
03...	.96	.04	1.0	.16	.67	.83	1.8	.10
24...	.46	.01	.47	.13	.15	.28	.75	.03

## TEMESCAL CREEK BASIN

11181335 CALDECOTT CREEK AT LAKE TEMESCAL AT OAKLAND, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
OCT 21...	1010	1420	6.7	16.0	2	.48	.00
21...	1015	1420	6.7	16.0	--	.50	.00

DATE	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)
OCT 21...	.48	.13	.30	.43	.91	.02
21...	.50	.08	.18	.26	.76	.02

## PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDJMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, TOTAL (MG/L)	SEDI- MENT DISCH. TOTAL, SUSP.+ BEDLOAD (T/DAY)	SED. TOTAL, FALL DIAM. % FINER THAN .002 MM	SED. TOTAL, FALL DIAM. % FINER THAN .004 MM	SED. TOTAL, FALL DIAM. % FINER THAN .008 MM	SED. TOTAL, FALL DIAM. % FINER THAN .016 MM	SED. TOTAL, FALL DIAM. % FINER THAN .031 MM	SED. TOTAL, SIEVE DIAM. % FINER THAN .062 MM	SED. TOTAL, SIEVE DIAM. % FINER THAN .125 MM
DEC 04...	1030	14.0	.11	19	.01	--	--	--	--	--	75	--
30...	1140	12.0	.50	56	.08	--	--	--	--	--	91	--
30...	1415	12.0	1.0	227	.61	--	--	--	--	--	96	--
JAN 09...	1115	13.0	.72	60	.12	--	--	--	--	--	96	--
09...	1130	13.0	3.0	210	1.7	--	--	--	--	--	89	--
09...	1145	13.0	2.8	153	1.2	--	--	--	--	--	95	--
09...	1200	12.5	3.0	284	2.3	--	--	--	--	--	95	--
09...	1215	12.5	3.0	284	2.3	--	--	--	--	--	95	--
09...	1230	12.5	3.2	355	3.1	--	--	--	--	--	95	--
09...	1245	12.5	3.2	428	3.7	--	--	--	--	--	96	--
09...	1315	12.5	3.2	367	3.2	66	81	90	97	99	99	100
09...	1330	12.5	3.0	395	3.2	--	--	--	--	--	99	--
FEB 14...	1030	12.0	.60	416	.67	--	--	--	--	--	99	--
14...	1100	12.0	.85	1200	2.8	--	83	94	97	100	--	--
14...	1115	12.0	.66	1010	1.8	--	--	--	--	--	99	--
14...	1155	12.0	.55	205	.30	--	--	--	--	--	98	--
14...	1300	12.0	1.3	63	.22	--	--	--	--	--	98	--
16...	1310	13.5	1.8	323	1.6	--	--	--	--	--	93	--
16...	1335	13.5	1.8	249	1.2	68	83	90	97	99	99	100
MAR 25...	1020	13.5	1.0	109	.29	--	--	--	--	--	93	--

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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
DEC 19...	1240	12.5	.29	149	.12	96



11181335 CALDECOTT CREEK AT LAKE TEMESCAL AT OAKLAND, CA--Continued

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
DEC							
04...	1045	14.0	1	.11	13	33	53
04...	1050	14.0	1	.11	7	18	28
04...	1055	14.0	1	.11	5	16	26

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							
04...	58	63	67	71	77	85	100
04...	34	44	57	70	81	93	100
04...	32	41	54	69	87	99	100

DATE	TIME	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JUL							
07...	1250	1	.00	29	53	77	88
07...	1255	1	.00	--	1	2	5
07...	1300	1	.00	1	2	4	6
07...	1305	1	.00	55	82	92	96
07...	1310	1	.00	38	60	73	87

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
JUL							
07...	95	99	100	--	--	--	--
07...	10	16	22	32	46	66	100
07...	12	21	31	43	68	100	--
07...	98	100	--	--	--	--	--
07...	99	100	--	--	--	--	--

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 mi<sup>2</sup> (20.18 km<sup>2</sup>).

## 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.

AVERAGE DISCHARGE.--5 years, 3.68 ft<sup>3</sup>/s (0.104 m<sup>3</sup>/s), 2,670 acre-ft/yr (3.29 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,640 ft<sup>3</sup>/s (46.4 m<sup>3</sup>/s) Feb. 19, 1980, gage-height, 9.53 ft (2.905 m); no flow Aug. 31 and Sept. 6, 7, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft<sup>3</sup>/s (11.3 m<sup>3</sup>/s), revised, and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 12	0030	478	13.5	5.45	1.661
Feb. 19	0715	*1640	46.4	9.53	2.905

Minimum daily discharge, 0.06 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Oct. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.14	.31	4.5	1.8	11	2.8	1.6	.67	.87	.20	.28
2	.30	.14	.38	2.9	1.7	17	2.8	1.4	.71	.87	.17	.26
3	.31	16	.85	2.3	1.7	14	2.7	1.6	.66	.39	.22	.24
4	.32	5.5	6.7	2.6	1.6	12	5.2	1.4	.74	.43	.19	.29
5	.36	1.0	6.8	2.3	1.5	57	22	1.3	.72	.23	.22	.29
6	.34	.90	6.6	2.7	1.5	42	5.8	1.3	.64	.32	.25	.33
7	.43	2.7	6.4	2.6	1.4	21	4.3	1.2	.60	.33	.25	.34
8	.24	1.9	5.9	2.9	1.5	15	3.6	1.1	.58	.32	.19	.32
9	.16	2.9	5.8	13	1.3	12	3.6	1.7	.98	.29	.20	.34
10	.26	.69	5.6	12	1.5	10	3.6	2.4	1.7	.37	.34	.36
11	.19	.32	1.0	155	1.4	9.1	3.3	1.5	.74	.36	.36	.39
12	.13	.21	.27	127	1.3	7.8	3.0	1.3	.72	.46	.29	.38
13	.11	.20	.22	122	1.3	7.4	2.7	1.3	.59	.41	.26	.40
14	.18	.18	.16	56	7.2	7.3	2.8	1.1	.55	.24	.28	.31
15	.15	.21	.14	29	18	6.6	2.6	.99	.48	.28	.35	.30
16	.24	3.2	.19	28	60	6.0	2.5	.94	.48	.28	.37	.29
17	.22	3.3	.24	34	67	5.4	2.4	1.2	.53	.25	.32	.32
18	.27	1.0	.25	23	46	5.3	2.3	1.1	.53	.19	.45	.33
19	.42	.55	2.2	27	349	4.9	2.3	1.1	.52	.21	.43	.36
20	.17	.34	.58	23	102	4.5	3.2	.99	.56	.26	.38	.40
21	.19	.34	2.1	11	98	4.4	2.7	.97	.52	.16	.53	.38
22	.20	2.3	.78	4.1	42	4.3	2.1	1.1	.44	.26	.58	.36
23	.17	1.3	17	3.3	25	4.1	2.5	.95	.41	.24	.49	.36
24	.17	.68	59	3.0	19	3.9	2.1	.82	.48	.26	.46	.33
25	7.8	.65	32	2.8	15	5.6	2.0	.87	.67	.21	.38	.33
26	.09	.48	11	2.5	11	3.6	1.9	.79	.82	.20	.27	.24
27	.08	.38	4.7	2.4	27	3.2	2.0	.97	.72	.21	.27	.19
28	.10	.24	2.8	2.3	35	3.0	1.8	.85	.80	.21	.25	.19
29	.06	.31	2.2	2.1	14	2.9	2.3	.92	.51	.24	.26	.19
30	.17	.29	7.3	1.9	---	2.8	1.6	.72	.74	.23	.26	.19
31	.11	---	7.0	1.9	---	2.9	---	.73	---	.25	.28	---
TOTAL	14.22	48.35	196.47	709.1	954.7	316.0	104.5	36.21	19.81	9.83	9.75	9.29
MEAN	.46	1.61	6.34	22.9	32.9	10.2	3.48	1.17	.66	.32	.31	.31
MAX	7.8	16	59	155	349	57	22	2.4	1.7	.87	.58	.40
MIN	.06	.14	.14	1.9	1.3	2.8	1.6	.72	.41	.16	.17	.19
AC-FT	28	96	390	1410	1890	627	207	72	39	19	19	18
CAL YR 1979	TOTAL	1230.46	MEAN	3.37	MAX	131	MIN	0	AC-FT	2440		
WTR YR 1980	TOTAL	2428.23	MEAN	6.63	MAX	349	MIN	.06	AC-FT	4820		

11181390 WILDCAT CREEK AT VALE ROAD AT RICHMOND, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977-80 (discontinued).  
 WATER TEMPERATURES: Water years 1977-80 (discontinued).  
 SEDIMENT RECORDS: Water years 1977-80 (discontinued).

PERIOD OF DAILY RECORD.--  
 WATER TEMPERATURES: October 1976 to September 1980.  
 SEDIMENT RECORDS: October 1976 to September 1980.

REMARKS.--Total sediment discharge values are reported for days having mean discharge values of 15 ft<sup>3</sup>/s (0.42 m<sup>3</sup>/s) or less except those for Oct. 25, Nov. 4, Dec. 30, Jan. 9, Feb. 14, and Mar. 4, when values are reported as suspended sediment discharge.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 13,400 mg/L Feb. 19, 1980; minimum daily mean, no flow Aug. 31, Sept. 6-7, 1979.

SEDIMENT DISCHARGE: Maximum daily, 23,300 tons (21,100 metric tons) Feb. 19, 1980; minimum daily, 0 ton (0 metric ton) many days in 1976-80.

## EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 13,400 mg/L Feb. 19; minimum daily mean, 1 mg/L on many days.

SEDIMENT DISCHARGE: Maximum daily, 23,300 tons (21,100 metric tons) Feb. 19; minimum daily, 0 ton (0 metric ton) many days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.5	---	---	---	---	---	---	---	---	21.0	21.0	22.5
2	---	19.0	---	---	---	---	---	15.0	17.0	19.0	---	---
3	24.0	14.0	---	16.0	---	11.0	---	---	---	---	---	23.0
4	---	12.0	---	12.0	12.0	---	9.0	---	18.0	---	21.0	---
5	23.0	14.0	---	---	---	11.5	---	16.5	---	---	---	24.0
6	---	---	---	---	---	---	---	---	---	---	23.0	---
7	---	17.0	11.5	14.0	---	10.0	---	---	---	15.0	---	---
8	20.5	---	---	---	---	---	---	---	---	---	21.0	23.5
9	---	14.0	---	12.0	---	---	11.0	14.0	18.0	17.0	---	---
10	21.0	---	---	---	---	---	---	---	---	---	---	---
11	20.0	---	---	10.0	12.0	---	---	---	17.0	---	24.5	---
12	21.0	15.5	---	15.0	---	10.0	---	13.0	---	---	---	---
13	21.0	---	---	14.0	13.0	---	---	---	18.0	---	21.5	---
14	---	---	---	13.5	---	10.0	14.5	15.0	---	17.0	---	---
15	22.5	19.0	---	12.0	---	---	---	---	---	23.5	21.5	24.0
16	---	20.5	---	13.0	11.5	---	15.0	16.0	20.0	20.5	---	---
17	21.5	---	---	---	8.5	11.0	---	---	---	---	---	24.0
18	---	---	---	---	9.0	---	---	---	---	19.0	21.5	---
19	20.0	---	12.0	---	11.0	---	---	17.0	---	---	---	24.0
20	20.0	---	---	---	11.0	---	---	---	19.5	---	23.0	---
21	---	---	11.0	8.0	12.0	11.0	---	17.0	---	21.0	---	---
22	---	---	---	---	---	---	13.0	---	---	---	22.5	23.0
23	---	11.0	---	---	---	---	13.0	18.0	---	22.0	---	---
24	---	13.0	---	---	---	---	---	---	---	---	---	24.0
25	17.0	---	---	---	13.0	---	13.0	---	20.0	22.5	22.5	---
26	17.0	---	7.5	---	---	11.0	---	16.0	---	---	---	---
27	---	---	---	---	13.5	---	---	15.0	---	---	21.0	---
28	---	---	---	9.0	---	11.0	---	16.5	20.0	22.5	---	---
29	19.0	---	---	---	11.0	---	---	---	---	---	22.0	---
30	---	---	11.0	---	---	---	---	17.0	20.5	23.0	---	---
31	19.0	---	---	---	---	11.0	---	---	---	---	---	---
MEAN	20.5	15.5	10.5	12.5	11.5	11.0	12.5	16.0	19.0	20.0	22.0	23.5
WTR YR 1980	MEAN	16.5	MAX	24.5	MIN	7.5						

## CASTRO CREEK BASIN

11181390 WILDCAT CREEK AT VALE ROAD AT RICHMOND, CA--Continued  
 SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	.28	1	0	.14	5	0	.31	1	0
2	.30	2	0	.14	10	0	.38	1	0
3	.31	2	0	16	285	18	.85	1	0
4	.32	2	0	5.5	177	4.7	6.7	3	.05
5	.36	1	0	1.0	27	.07	6.8	8	.15
6	.34	1	0	.90	14	.14	6.6	7	.12
7	.43	2	0	2.7	5	.04	6.4	6	.10
8	.24	2	0	1.9	3	.02	5.9	4	.06
9	.16	3	0	2.9	5	.06	5.8	3	.05
10	.26	5	0	.69	4	.01	5.6	1	.02
11	.19	8	0	.32	3	0	1.0	2	.01
12	.13	2	0	.21	2	0	.27	2	0
13	.11	2	0	.20	3	0	.22	2	0
14	.18	2	0	.18	8	0	.16	2	0
15	.15	2	0	.21	3	0	.14	3	0
16	.24	5	0	3.2	137	4.9	.19	3	0
17	.22	13	.01	3.3	20	.26	.24	4	0
18	.27	5	0	1.0	2	.01	.25	4	0
19	.42	12	.03	.55	2	0	2.2	89	1.6
20	.17	7	0	.34	2	0	.58	12	.01
21	.19	3	0	.34	1	0	2.1	52	.49
22	.20	3	0	2.3	56	1.1	.78	8	.02
23	.17	3	0	1.3	22	.08	17	431	76
24	.17	3	0	.68	8	.01	59	2540	738
25	7.8	247	18	.65	4	.01	32	708	70
26	.09	2	0	.48	1	0	11	102	3.0
27	.08	2	0	.38	2	0	4.7	31	.39
28	.10	2	0	.24	3	0	2.8	19	.14
29	.06	3	0	.31	2	0	2.2	19	.12
30	.17	3	0	.29	1	0	7.3	72	3.5
31	.11	3	0	---	---	---	7.0	83	2.2
TOTAL	14.22	---	18.04	48.35	---	29.41	196.47	---	896.03
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	4.5	33	.40	1.8	8	.04	11	88	2.6
2	2.9	11	.09	1.7	8	.04	17	120	6.8
3	2.3	8	.05	1.7	8	.04	14	170	6.4
4	2.6	6	.04	1.6	8	.03	12	152	9.3
5	2.3	6	.04	1.5	8	.03	57	1220	207
6	2.7	7	.05	1.5	7	.03	42	390	53
7	2.6	9	.06	1.4	7	.03	21	194	7.3
8	2.9	9	.07	1.5	6	.02	15	136	4.4
9	13	57	2.9	1.3	6	.02	12	100	2.9
10	12	152	11	1.5	5	.02	10	72	1.9
11	155	7650	6050	1.4	5	.02	9.1	50	1.2
12	127	4250	3370	1.3	5	.02	7.8	30	.63
13	122	6470	2890	1.3	5	.02	7.4	28	.56
14	56	1690	360	7.2	35	1.0	7.3	25	.49
15	29	279	22	18	230	24	6.6	24	.43
16	28	283	23	60	3160	899	6.0	23	.37
17	34	457	55	67	2540	674	5.4	22	.32
18	23	157	9.7	46	2470	355	5.3	21	.30
19	27	80	5.8	349	13400	23300	4.9	21	.28
20	23	60	2.4	102	3620	1570	4.5	21	.26
21	11	40	.86	98	1990	527	4.4	20	.24
22	4.1	22	.22	42	536	61	4.3	19	.22
23	3.3	11	.10	25	289	20	4.1	18	.20
24	3.0	9	.07	19	213	23	3.9	17	.18
25	2.8	12	.09	15	141	5.7	5.6	25	.42
26	2.5	13	.09	11	85	2.5	3.6	16	.16
27	2.4	13	.08	27	542	83	3.2	14	.12
28	2.3	14	.09	35	347	33	3.0	12	.10
29	2.1	11	.06	14	128	4.8	2.9	9	.07
30	1.9	9	.05	---	---	---	2.8	6	.05
31	1.9	8	.04	---	---	---	2.9	5	.04
TOTAL	709.1	---	12804.35	954.7	---	27583.36	316.0	---	308.24

11181390 WILDCAT CREEK AT VALE ROAD AT RICHMOND, CA--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

APRIL					MAY			JUNE		
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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	2.8	5	.04	1.6	10	.04	.67	10	.02	
2	2.8	5	.04	1.4	9	.03	.71	10	.02	
3	2.7	5	.04	1.6	8	.03	.66	11	.02	
4	5.2	64	2.3	1.4	6	.02	.74	12	.02	
5	22	395	40	1.3	5	.02	.72	13	.03	
6	5.8	56	.88	1.3	5	.02	.64	14	.02	
7	4.3	19	.22	1.2	5	.02	.60	14	.02	
8	3.6	11	.11	1.1	5	.01	.58	15	.02	
9	3.6	9	.09	1.7	22	.13	.98	16	.04	
10	3.6	10	.10	2.4	25	.16	1.7	16	.07	
11	3.3	13	.12	1.5	22	.09	.74	15	.03	
12	3.0	20	.16	1.3	20	.07	.72	10	.02	
13	2.7	26	.19	1.3	12	.04	.59	5	.01	
14	2.8	28	.21	1.1	8	.02	.55	7	.01	
15	2.6	28	.20	.99	8	.02	.48	9	.01	
16	2.5	27	.18	.94	7	.02	.48	11	.01	
17	2.4	25	.16	1.2	7	.02	.53	10	.01	
18	2.3	24	.15	1.1	7	.02	.53	9	.01	
19	2.3	23	.14	1.1	7	.02	.52	8	.01	
20	3.2	34	.49	.99	13	.03	.56	7	.01	
21	2.7	21	.15	.97	18	.05	.52	7	.01	
22	2.1	7	.04	1.1	14	.04	.44	8	.01	
23	2.5	16	.11	.95	9	.02	.41	8	.01	
24	2.1	13	.07	.82	10	.02	.48	9	.01	
25	2.0	9	.05	.87	12	.03	.67	9	.02	
26	1.9	10	.05	.79	13	.03	.82	8	.02	
27	2.0	12	.06	.97	14	.04	.72	6	.01	
28	1.8	13	.06	.85	9	.02	.80	5	.01	
29	2.3	12	.07	.92	6	.01	.51	7	.01	
30	1.6	11	.05	.72	9	.02	.74	9	.02	
31	---	---	---	.73	9	.02	---	---	---	
TOTAL	104.5	---	46.53	36.21	---	1.13	19.81	---	.54	
JULY					AUGUST			SEPTEMBER		
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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	.87	9	.02	.20	8	0	.28	1		
2	.87	18	.13	.17	6	0	.26	2		
3	.39	7	.01	.22	3	0	.24	3		
4	.43	6	.01	.19	4	0	.29	3		
5	.23	5	0	.22	6	0	.29	3		
6	.32	4	0	.25	7	0	.33	3		
7	.33	3	0	.25	9	.01	.34	3		
8	.32	3	0	.19	11	.01	.32	3		
9	.29	3	0	.20	9	0	.34	3		
10	.37	3	0	.34	6	.01	.36	3		
11	.36	4	0	.36	4	0	.39	3		
12	.46	4	0	.29	3	0	.38	2		
13	.41	4	0	.26	1	0	.40	2		
14	.24	5	0	.28	1	0	.31	2		
15	.28	5	0	.35	1	0	.30	2		
16	.28	4	0	.37	1	0	.29	2		
17	.25	4	0	.32	1	0	.32	2		
18	.19	4	0	.45	1	0	.33	2		
19	.21	4	0	.43	2	0	.36	2		
20	.26	3	0	.38	3	0	.40	2		
21	.16	3	0	.53	3	0	.38	1		
22	.26	6	0	.58	2	0	.36	1		
23	.24	9	.01	.49	2	0	.36	2		
24	.26	8	.01	.46	1	0	.33	2		
25	.21	7	0	.38	1	0	.33	2		
26	.20	6	0	.27	1	0	.24	2		
27	.21	5	0	.27	2	0	.19	2		
28	.21	4	0	.25	2	0	.19	1		
29	.24	3	0	.26	1	0	.19	1		
30	.23	2	0	.26	1	0	.19	1		
31	.25	5	0	.28	1	0	---	---		
TOTAL	9.83	---	.19	9.75	---	.03	9.29	---	0	
YEAR	2428.23		41687							

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
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OCTOBER 1979	14.22	18.04	3	21
NOVEMBER ...	48.35	29.41	5	34
DECEMBER ...	196.47	896.03	84	980
JANUARY 1980	709.10	12804.35	612	13400
FEBRUARY ...	954.70	27583.36	895	28500
MARCH .....	316.00	308.24	80	388
APRIL .....	104.50	46.53	10	57
MAY .....	36.21	1.13	0	1
JUNE .....	19.81	0.54	0	1
JULY .....	9.83	0.19	0	0
AUGUST .....	9.75	0.03	0	0
SEPTEMBER ..	9.29	0.0	0	0
TOTAL .....	2428.23	41687.85	1689	43382

		TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SOLID- MENT, SUS- PENDED (MG/L)	SOLID- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SOL. SUSP. FALL DIAM. % FINER THAN .002 MM	SOL. SUSP. FALL DIAM. % FINER THAN .004 MM	SOL. SUSP. FALL DIAM. % FINER THAN .008 MM	SOL. SUSP. FALL DIAM. % FINER THAN .016 MM	SOL. SUSP. FALL DIAM. % FINER THAN .031 MM	
DATE	TIME										
JAN											
12...	1300	15.0	77	1360	283	--	38	49	59	70	
13...	1630	14.0	129	4910	1710	--	38	46	57	70	
15...	1325	12.0	30	224	18	51	60	71	79	84	
FEB											
16...	1205	11.5	103	4710	1310	--	43	55	67	79	
16...	1320	11.5	88	3240	770	--	46	57	70	80	
22...	1240	12.0	41	469	52	52	62	73	83	90	
		SOL. SUSP. FALL DIAM. % FINER THAN .062 MM	SOL. SUSP. FALL DIAM. % FINER THAN .062 MM	SOL. SUSP. FALL DIAM. % FINER THAN .125 MM	SOL. SUSP. FALL DIAM. % FINER THAN .125 MM	SOL. SUSP. FALL DIAM. % FINER THAN .250 MM	SOL. SUSP. FALL DIAM. % FINER THAN .250 MM	SOL. SUSP. FALL DIAM. % FINER THAN .500 MM	SOL. SUSP. FALL DIAM. % FINER THAN .500 MM	SOL. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SOL. SUSP. FALL DIAM. % FINER THAN 2.00 MM
DATE											
JAN											
12...	--	77	--	84	--	92	--	96	98	100	
13...	81	--	92	--	98	--	100	--	--	--	
15...	--	87	--	93	--	99	--	100	--	--	
FEB											
16...	89	--	95	--	99	--	100	--	--	--	
16...	87	--	92	--	97	--	100	--	--	--	
22...	--	93	--	95	--	98	--	99	99	100	

11181390 WILDCAT CREEK AT VALE ROAD AT RICHMOND, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, TOTAL (MG/L)	SEDI- MENT DISCH. TOTAL, SUSP.+ BEDLOAD (T/DAY)	SED. TOTAL, FALL DIAM. % FINER THAN .002 MM	SED. TOTAL, FALL DIAM. % FINER THAN .004 MM	SED. TOTAL, FALL DIAM. % FINER THAN .008 MM
DEC 30...	1010	11.0	6.7	535	9.7	72	85	93
		SED. TOTAL, FALL DIAM. % FINER THAN .016 MM	SED. TOTAL, FALL DIAM. % FINER THAN .031 MM	SED. TOTAL, SIEVE DIAM. % FINER THAN .062 MM	SED. TOTAL, SIEVE DIAM. % FINER THAN .125 MM	SED. TOTAL, SIEVE DIAM. % FINER THAN .250 MM	SED. TOTAL, SIEVE DIAM. % FINER THAN .500 MM	SED. TOTAL, SIEVE DIAM. % FINER THAN 1.00 MM
DEC 30...		97	98	98	98	99	99	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
JUL 15...	1320	23.5	1	.29	1	3	4
15...	1325	23.5	1	.29	1	1	4
15...	1330	23.5	1	.29	--	--	1
		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
JUL 15...	17	59	91	98	100	--	--
15...	12	20	26	35	50	78	100
15...	1	4	9	17	33	60	100

## RHEEM CREEK BASIN

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 mi<sup>2</sup> (3.86 km<sup>2</sup>).

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.--19 years (water years 1962-80), 1.35 ft<sup>3</sup>/s (0.038 m<sup>3</sup>/s), 978 acre-ft/yr (1.21 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 477 ft<sup>3</sup>/s (13.5 m<sup>3</sup>/s) Dec. 20, 1969, gage height, 6.95 ft (2.118 m), from rating curve extended above 150 ft<sup>3</sup>/s (4.25 m<sup>3</sup>/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft<sup>3</sup>/s (4.2 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 23	1800	264 7.48	5.49 1.673	Feb. 16	1015	172 4.87	4.69 1.430
Dec. 30	0730	182 5.15	4.79 1.460	Feb. 19	0400	*291 8.24	5.70 1.737
Jan. 13	0315	223 6.32	5.16 1.573				

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	1.4	.11	.89	.57	.55	.21	.38	.03	0
2	0	0	0	.62	.10	5.3	.57	.30	.01	1.7	0	0
3	0	18	0	.33	.13	1.9	.42	.42	0	.06	0	0
4	0	1.3	0	.20	.17	5.2	4.5	.63	.05	.01	0	0
5	0	.02	0	.10	.15	9.1	7.8	.66	.11	.01	0	.03
6	0	1.3	0	.07	.12	4.4	.39	.59	.02	0	.01	.01
7	0	.21	0	.07	.12	1.8	.24	.50	0	.09	.01	0
8	0	0	0	.18	.11	1.2	.16	.62	0	.04	.07	.01
9	0	0	0	9.3	.09	.78	.13	2.3	0	0	.12	.04
10	0	0	0	4.5	.12	.66	.13	.48	0	.04	.18	0
11	0	0	0	61	.13	.46	.17	.18	.32	.11	.29	.02
12	0	0	0	14	.07	.34	.25	.10	.41	.02	.39	.02
13	0	0	0	36	.08	.33	.28	.11	.05	.02	.37	.07
14	0	0	0	4.3	8.4	.24	.16	.17	0	0	.99	.25
15	.02	0	0	5.5	14	.20	.18	.07	0	0	1.4	.40
16	0	8.2	0	6.9	33	.19	.31	.07	0	.12	1.5	.08
17	0	1.0	0	4.1	19	.17	.24	.08	.02	.31	1.7	.01
18	.15	.01	0	1.6	7.3	.16	.36	.35	.01	.13	.87	.08
19	.48	0	4.7	.90	58	.14	.35	.18	.18	0	1.1	.06
20	.45	0	1.5	.62	30	.12	2.1	.62	.04	0	1.2	.02
21	0	0	5.7	.50	9.0	.18	.53	.14	.01	0	.81	0
22	0	4.4	.03	.37	4.0	.12	.52	.04	0	.01	.98	0
23	0	.23	35	.32	1.8	.11	.20	.15	.01	0	.52	0
24	.02	.06	38	.30	2.0	.09	.10	.05	.13	0	.48	0
25	18	.25	8.4	.30	1.2	1.1	.37	.08	.06	.02	.46	0
26	.02	.04	1.3	.25	.94	.17	.52	.11	.23	0	.10	0
27	0	0	.45	.21	8.8	.14	.92	.09	.20	0	.03	0
28	0	0	.18	.18	2.4	.12	.73	.03	.07	0	0	0
29	0	0	.35	.18	1.1	.15	.27	.20	0	.14	.03	0
30	0	0	13	.14	---	.14	.59	.09	.12	.03	0	.01
31	0	---	5.7	.11	---	.26	---	.03	---	.10	0	---
TOTAL	19.14	35.02	114.31	154.55	202.44	36.16	24.06	9.99	2.26	3.34	13.64	1.11
MEAN	.62	1.17	3.69	4.99	6.98	1.17	.80	.32	.075	.11	.44	.037
MAX	18	18	38	61	58	9.1	7.8	2.3	.41	1.7	1.7	.40
MIN	0	0	0	.07	.07	.09	.10	.03	0	0	0	0
AC-FT	38	69	227	307	402	72	48	20	4.5	6.6	27	2.2
CAL YR 1979	TOTAL	465.06	MEAN	1.27	MAX	44	MIN	0	AC-FT	922		
WTR YR 1980	TOTAL	616.02	MEAN	1.68	MAX	61	MIN	0	AC-FT	1220		



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.

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 above 1.0 ft<sup>3</sup>/s (0.03 m<sup>3</sup>/s) and fair below. No regulation or diversion above station.

AVERAGE DISCHARGE.--16 years, 4.19 ft<sup>3</sup>/s (0.119 m<sup>3</sup>/s), 3,040 acre-ft/yr (3.75 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,960 ft<sup>3</sup>/s (55.5 m<sup>3</sup>/s) Jan. 18, 1973, gage height, 10.93 ft (3.331 m), from rating curve extended above 540 ft<sup>3</sup>/s (15.3 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 9.62 ft (2.932 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft<sup>3</sup>/s (7.1 m<sup>3</sup>/s) (revised) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)		Gage height (ft) (m)		Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)		Gage height (ft) (m)	
Jan. 13	1730	618	17.5	5.50	1.676	Feb. 19	0545	*1920	54.4	10.75	3.2777
Feb. 16	2015	563	15.9	5.26	1.603	Mar. 5	0145	326	9.23	4.19	1.2777

Minimum daily discharge, 0.06 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Oct. 9-10, Sept. 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.14	.22	2.0	3.2	18	7.2	3.5	1.6	.69	.10	.49
2	.09	.14	.20	1.5	3.2	57	6.9	3.5	1.6	1.4	.12	.71
3	.09	10	.19	1.2	3.1	29	6.6	3.2	1.5	1.0	.14	.88
4	.09	.77	.18	1.1	3.0	21	8.8	3.1	1.5	.79	.17	.88
5	.09	.27	.18	1.0	3.0	114	20	3.1	1.4	.63	.20	.84
6	.08	.20	.96	1.1	2.7	63	7.2	3.0	1.2	.52	.19	.82
7	.07	.18	.93	1.1	2.6	34	6.5	3.0	1.3	.55	.16	.11
8	.06	.16	.89	.89	2.6	28	6.2	2.9	1.3	.59	.14	.12
9	.06	.15	.20	6.6	2.4	24	6.2	4.1	1.4	.60	.13	.13
10	.06	.14	.25	4.8	2.3	22	5.9	3.6	1.3	.54	.12	.13
11	.07	.15	.21	94	2.2	19	5.8	3.2	1.2	.46	.12	.15
12	.07	.13	.20	69	2.1	17	5.5	2.9	1.1	.43	.11	.20
13	.07	.13	.19	215	2.4	16	5.4	2.9	1.1	.49	.12	.22
14	.08	.14	.18	47	14	16	5.4	2.7	1.1	.48	.16	.24
15	.09	.16	.17	23	43	15	5.2	2.7	1.2	.41	.19	.21
16	.09	3.4	.16	17	114	13	5.1	2.5	1.0	.35	.14	.18
17	.11	.98	.16	25	104	13	4.9	2.4	1.1	.39	.10	.20
18	.12	.24	.20	12	59	12	4.9	2.2	.89	.61	.12	.19
19	1.2	.18	3.1	8.5	297	11	4.8	2.2	1.1	.84	.12	.16
20	.51	.16	1.3	7.1	163	11	5.2	2.0	1.2	.85	.12	.16
21	.13	.19	7.0	6.5	156	10	4.4	2.1	1.0	.60	.12	.09
22	.09	1.3	1.0	5.8	50	10	5.5	2.1	.96	.22	.13	.06
23	.08	.32	17	5.3	34	9.5	4.8	2.1	.99	.28	.14	.06
24	.09	.52	49	5.0	28	9.1	4.3	2.1	.96	.25	.12	.08
25	4.8	.30	18	4.9	23	11	4.2	2.1	.99	.23	.12	.10
26	.16	.33	3.3	4.4	20	9.1	4.2	1.8	.74	.20	.13	.11
27	.13	.25	1.9	4.2	52	8.6	4.1	1.9	.86	.19	.27	.14
28	.11	.22	1.4	4.1	36	8.2	4.0	1.9	.65	.17	.33	.15
29	.11	.18	1.3	3.8	20	7.9	4.0	1.8	.66	.15	.35	.10
30	.12	.29	5.1	3.4	---	7.7	3.7	1.8	.68	.13	.37	.10
31	.15	---	3.4	3.3	---	7.4	---	1.7	---	.12	.29	---
TOTAL	9.17	21.72	118.47	589.59	1247.8	651.5	176.9	80.1	33.58	15.16	5.14	8.01
MEAN	.30	.72	3.82	19.0	43.0	21.0	5.90	2.58	1.12	.49	.17	.27
MAX	4.8	10	49	215	297	114	20	4.1	1.6	1.4	.37	.88
MIN	.06	.13	.16	.89	2.1	7.4	3.7	1.7	.65	.12	.10	.06
AC-FT	18	43	235	1170	2480	1290	351	159	67	30	10	16

CAL YR 1979	TOTAL	715.56	MEAN 1.96	MAX 89	MIN .06	AC-FT	1420
WTR YR 1980	TOTAL	2957.14	MEAN 8.08	MAX 297	MIN .06	AC-FT	5870

## PACHECO CREEK BASIN

11182500 SAN RAMON CREEK AT SAN RAMON, CA

LOCATION.--Lat 37°46'23", long 121°59'37", in sec. 8, T.2 S., R.1 W., Contra Costa County, Hydrologic Unit 18050001, on right bank 0.2 mi (0.3 km) downstream from Bollinger Creek, and 1.0 mi (1.6 km) southwest of San Ramon.

DRAINAGE AREA.--5.89 mi<sup>2</sup> (15.26 km<sup>2</sup>).

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. No regulation or diversion above station.

AVERAGE DISCHARGE.--28 years, 2.91 ft<sup>3</sup>/s (0.082 m<sup>3</sup>/s), 2,110 acre-ft/yr (2.60 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft<sup>3</sup>/s (45.3 m<sup>3</sup>/s) Oct. 13, 1962, gage height, 16.98 ft (5.176 m), from rating curve extended above 90 ft<sup>3</sup>/s (2.55 m<sup>3</sup>/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 200 ft<sup>3</sup>/s (5.7 m<sup>3</sup>/s) (revised) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 13	1845	*523	14.8	5.80	1.768
Feb. 19	0330	370	10.5	4.80	1.463

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.07	.21	3.6	4.3	16	4.8	2.1	1.2	.43	.03	.05
2	0	.09	.21	2.5	4.1	24	4.5	2.0	1.1	.61	.04	.04
3	0	.82	.18	2.1	4.1	19	4.4	2.0	1.0	.51	.08	.04
4	0	.64	.17	1.8	3.9	21	5.1	1.9	1.1	.45	.13	.05
5	0	.44	.18	1.6	3.7	38	15	1.9	1.1	.38	.17	.03
6	0	.20	.17	1.5	3.4	36	5.7	1.9	1.1	.36	.17	.04
7	0	.17	.15	1.4	3.3	22	4.8	1.8	1.0	.34	.14	.08
8	0	.17	.13	1.3	3.2	18	4.5	1.8	.98	.34	.11	.11
9	0	.15	.13	3.9	3.0	16	4.3	2.5	.94	.33	.11	.09
10	0	.15	.17	2.9	3.0	15	4.1	2.3	.93	.30	.09	.08
11	.01	.16	.15	72	3.0	14	3.9	1.9	.94	.28	.06	.09
12	.01	.14	.41	115	2.8	12	3.6	1.8	.93	.30	.04	.09
13	.01	.14	.18	160	2.8	12	3.3	1.8	.81	.32	.06	.10
14	.01	.14	.17	63	7.2	12	3.2	1.8	.78	.31	.12	.12
15	.01	.13	.17	31	18	11	3.2	1.7	.75	.26	.11	.11
16	.01	.49	.17	35	65	9.8	3.1	1.7	.72	.20	.08	.07
17	.02	1.4	.17	40	67	9.4	2.9	1.6	.68	.19	.07	.06
18	.02	.30	.17	22	43	8.6	2.9	1.5	.66	.22	.08	.06
19	3.1	.20	.53	16	138	7.9	2.8	1.4	.69	.26	.09	.10
20	1.9	.15	.50	13	61	7.6	3.1	1.4	.71	.23	.07	.10
21	1.3	.16	4.2	11	84	7.4	3.2	1.3	.66	.20	.07	.11
22	.98	.52	.57	9.4	39	6.9	3.3	1.4	.65	.19	.06	.06
23	.89	.86	8.7	8.3	28	6.7	3.0	1.3	.64	.18	.08	.03
24	.89	.35	50	7.5	23	6.4	2.7	1.3	.55	.17	.07	.01
25	3.2	.75	18	7.0	20	7.0	2.6	1.3	.55	.15	.06	0
26	.38	1.3	4.0	6.5	18	6.2	2.5	1.3	.51	.11	.06	0
27	.15	.38	2.2	5.9	31	5.9	2.4	1.3	.49	.09	.06	.03
28	.09	.25	1.6	5.4	23	5.6	2.3	1.3	.45	.06	.06	.04
29	.05	.24	1.4	5.0	17	5.3	2.3	1.3	.43	.05	.06	.03
30	.05	.21	2.4	4.5	---	5.2	2.2	1.3	.43	.05	.06	0
31	.07	---	6.7	4.4	---	5.0	---	1.2	---	.04	.06	---
TOTAL	13.15	11.17	104.09	664.5	726.8	396.9	115.7	51.1	23.48	7.91	2.55	1.82
MEAN	.42	.37	3.36	21.4	25.1	12.8	3.86	1.65	.78	.26	.082	.061
MAX	3.2	1.4	50	160	138	38	15	2.5	1.2	.61	.17	.12
MIN	0	.07	.13	1.3	2.8	5.0	2.2	1.2	.43	.04	.03	0
AC-FT	26	22	206	1320	1440	787	229	101	47	16	5.1	3.6

CAL YR 1979 TOTAL 990.90 MEAN 2.71 MAX 88 MIN 0 AC-FT 1970  
WTR YR 1980 TOTAL 2119.17 MEAN 5.79 MAX 160 MIN 0 AC-FT 4200

## 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 mi<sup>2</sup> (124.1 km<sup>2</sup>).

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

REVISED RECORDS.--WSP 1395: 1953(M). WDR CA-79-2: 1978.

GAGE.--Water-stage recorder. Concrete control since Dec. 4, 1962. Datum of gage is 169.98 ft (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.--28 years, 16.4 ft<sup>3</sup>/s (0.464 m<sup>3</sup>/s), 11,880 acre-ft/yr (14.6 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,980 ft<sup>3</sup>/s (226 m<sup>3</sup>/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 ft<sup>3</sup>/s (62.3 m<sup>3</sup>/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 1,000 ft<sup>3</sup>/s (28 m<sup>3</sup>/s) (revised) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	1715	1050	29.7	4.58	1.396	Feb. 19	0545	3260	92.3	6.61	2.015
Jan. 13	1930	*6400	181	8.32	2.536	Feb. 21	0545	1580	44.7	5.22	1.591
Feb. 16	2015	2390	67.7	5.97	1.820						

Minimum daily discharge, 1.2 ft<sup>3</sup>/s (0.034 m<sup>3</sup>/s) Oct. 15-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.1	2.9	23	16	57	17	12	4.9	9.3	2.7	3.1
2	1.9	2.1	2.9	11	15	142	18	12	4.3	15	2.7	3.1
3	1.8	30	3.0	8.3	14	90	17	11	4.1	9.7	2.7	3.2
4	1.8	16	2.9	7.7	14	65	27	11	4.8	6.1	2.7	3.3
5	1.8	9.8	2.7	7.6	13	255	148	11	5.3	5.6	2.7	3.0
6	1.8	4.4	2.7	7.0	13	177	32	11	4.9	5.6	2.7	2.9
7	1.7	3.5	2.6	6.7	11	64	18	11	4.4	5.6	2.7	2.9
8	1.7	3.1	2.5	6.6	11	50	19	11	4.1	5.5	2.7	2.9
9	1.6	3.1	2.5	40	10	46	21	23	4.2	5.3	2.7	2.9
10	1.5	3.1	2.5	23	10	42	19	14	4.3	5.0	3.5	2.9
11	1.4	2.2	2.6	379	11	52	21	11	4.1	4.7	3.2	2.9
12	1.3	2.1	2.5	797	13	44	20	11	4.1	3.9	2.9	3.0
13	1.3	2.0	2.4	1620	11	41	18	11	4.1	3.9	2.7	3.2
14	1.3	2.0	2.4	362	98	40	16	10	4.7	3.6	2.7	3.3
15	1.2	2.0	2.6	167	248	38	15	9.9	4.4	3.5	2.7	3.3
16	1.2	16	2.7	172	668	37	15	9.4	4.4	3.3	2.7	3.3
17	1.2	30	2.7	244	486	36	15	9.2	4.1	3.3	2.7	3.5
18	1.2	5.2	2.7	95	345	35	15	8.5	4.1	3.3	2.7	3.5
19	38	3.2	19	58	1540	33	15	8.3	4.2	3.3	2.7	3.5
20	22	2.7	6.9	38	442	31	17	8.1	4.6	3.4	3.3	3.5
21	8.8	2.5	65	39	666	28	24	7.1	4.9	3.5	3.1	3.4
22	3.9	10	9.0	34	167	21	26	7.0	5.9	3.5	3.1	3.2
23	2.9	13	101	29	121	21	20	6.5	5.8	3.8	3.1	3.1
24	2.6	4.2	431	26	104	18	15	6.3	6.4	3.5	3.1	3.0
25	86	4.3	165	25	93	31	14	6.1	8.6	3.5	3.3	2.7
26	10	24	25	24	82	19	14	6.0	8.8	3.5	3.3	2.4
27	4.7	4.7	13	23	187	20	13	5.8	9.0	3.4	3.3	2.4
28	3.6	3.5	9.9	21	113	17	13	5.8	9.3	3.3	3.3	2.4
29	2.9	3.0	9.5	20	51	19	14	5.8	9.4	3.3	3.2	2.4
30	2.3	3.2	30	18	---	19	13	6.2	9.1	3.2	3.1	2.4
31	2.1	---	63	17	---	15	---	5.7	---	3.0	3.1	---
TOTAL	217.4	217.0	995.1	4348.9	5573	1603	669	291.7	165.3	146.4	91.1	90.6
MEAN	7.01	7.23	32.1	140	192	51.7	22.3	9.41	5.51	4.72	2.94	3.02
MAX	86	30	431	1620	1540	255	148	23	9.4	15	3.5	3.5
MIN	1.2	2.0	2.4	6.6	10	15	13	5.7	4.1	3.0	2.7	2.4
AC-FT	431	430	1970	8630	11050	3180	1330	579	328	290	181	180
CAL YR 1979	TOTAL	6644.4	MEAN 18.2	MAX 696	MIN 1.2	AC-FT 13180						
WTR YR 1980	TOTAL	14408.5	MEAN 39.4	MAX 1620	MIN 1.2	AC-FT 28580						

## PACHECO CREEK BASIN

11183600 WALNUT CREEK AT CONCORD, CA

LOCATION.--Lat 37°56'43", long 122°02'55", in Arroyo de las Nueces y Bolbones Grant, Contra Costa County, Hydrologic Unit 18050001, on right bank at southwest city limits of Concord, 0.2 mi (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 mi<sup>2</sup> (220.7 km<sup>2</sup>), 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 fair. Flow slightly regulated by Lafayette Reservoir 10 mi (16 km) upstream, capacity, 4,240 acre-ft (5.23 hm<sup>3</sup>). Some small diversions for irrigation above station.

AVERAGE DISCHARGE.--12 years, 43.7 ft<sup>3</sup>/s (1.238 m<sup>3</sup>/s), 31,660 acre-ft/yr (39.0 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft<sup>3</sup>/s (227 m<sup>3</sup>/s) Feb. 27, 1973, gage height, 14.0 ft (4.27 m), estimated, from rating curve extended above 3,000 ft<sup>3</sup>/s (85.0 m<sup>3</sup>/s) on basis of computed discharge at gage height 13.7 ft (4.18 m); minimum daily, 0.70 ft<sup>3</sup>/s (0.020 m<sup>3</sup>/s) Oct. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 850 ft<sup>3</sup>/s (24 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	1600	2590	73.3	7.14	2.176	Feb. 19	0700	4740	134	9.82	2.993
Jan. 13	1900	*6130	174	11.57	3.527						

Minimum daily discharge, 4.4 ft<sup>3</sup>/s (0.125 m<sup>3</sup>/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	6.8	7.7	54	27	152	54	30	14	36	8.5	8.6
2	5.0	6.6	11	26	26	276	60	36	13	58	8.2	8.4
3	4.9	127	10	21	25	227	55	36	12	40	8.1	8.6
4	4.8	40	7.5	17	25	190	70	39	13	31	8.2	8.6
5	4.7	25	7.6	17	25	391	237	44	14	28	8.6	8.5
6	4.6	11	7.6	16	24	326	67	51	13	26	9.3	8.1
7	4.5	8.6	7.6	15	24	186	55	59	12	25	9.6	7.8
8	4.5	12	7.2	16	23	167	60	67	12	21	10	7.7
9	4.4	8.3	7.1	104	24	150	65	112	12	16	9.7	7.8
10	5.0	7.4	7.1	64	23	130	60	84	12	13	9.9	7.8
11	5.0	7.1	7.2	587	24	138	62	90	12	11	9.4	8.0
12	5.3	7.1	7.1	989	26	105	58	84	12	8.4	8.9	8.2
13	7.1	7.1	7.0	1800	25	91	56	71	12	8.4	8.5	8.5
14	12	7.2	7.1	429	151	81	54	55	13	8.6	8.9	8.6
15	4.9	7.2	7.1	210	322	74	53	45	13	9.2	9.6	8.7
16	4.8	59	7.1	202	771	68	51	39	13	8.9	9.9	8.8
17	4.5	64	7.1	293	655	62	51	34	14	8.6	9.8	8.8
18	5.9	12	7.1	147	381	57	50	30	17	9.1	9.1	8.7
19	116	7.6	38	106	1980	54	49	27	20	9.3	9.2	8.6
20	53	6.7	17	92	575	52	48	24	24	9.9	9.0	8.3
21	12	6.2	86	76	906	58	67	22	26	10	8.6	8.2
22	29	23	20	65	260	66	65	21	27	10	8.7	7.8
23	8.3	32	251	57	197	71	41	19	28	11	8.8	7.5
24	7.6	9.5	830	50	167	70	29	18	30	9.8	9.2	7.2
25	174	9.6	226	45	149	85	26	17	34	10	9.1	6.6
26	19	33	54	41	134	70	26	17	32	9.9	9.0	6.4
27	10	11	30	36	286	59	26	16	31	9.7	9.0	5.7
28	8.5	8.8	22	34	256	67	25	16	30	9.3	8.9	5.9
29	7.9	7.9	21	31	157	61	27	15	30	9.0	8.8	6.2
30	7.3	7.9	77	30	---	58	27	15	29	11	8.6	8.8
31	6.6	---	107	28	---	51	---	15	---	8.6	9.2	---
TOTAL	556.1	586.6	1916.2	5698	7668	3693	1674	1248	574	493.7	280.3	237.4
MEAN	17.9	19.6	61.8	184	264	119	55.8	40.3	19.1	15.9	9.04	7.91
MAX	174	127	830	1800	1980	391	237	112	34	58	10	8.8
MIN	4.4	6.2	7.0	15	23	51	25	15	12	8.4	8.1	5.7
AC-FT	1100	1160	3800	11300	15210	7330	3320	2480	1140	979	556	471
CAL YR 1979	TOTAL	13242.6	MEAN 36.3	MAX 1120	MIN 4.4	AC-FT 26270						
WTR YR 1980	TOTAL	24625.3	MEAN 67.3	MAX 1980	MIN 4.4	AC-FT 48840						

## 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 mi<sup>2</sup> (3.16 km<sup>2</sup>).

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 except those for periods of no gage-height record, Jan. 21 to Feb. 26, Feb. 26 to Mar. 4, Mar. 8-20 and Apr. 10-21, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--6 years, 0.25 ft<sup>3</sup>/s (0.007 m<sup>3</sup>/s), 181 acre-ft/yr (223,000 m<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 86 ft<sup>3</sup>/s (2.44 m<sup>3</sup>/s) Jan. 16, 1978, gage height, 2.18 ft (0.664 m), from rating curve extended above 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) on basis of critical depth computation; no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft<sup>3</sup>/s (1.44 m<sup>3</sup>/s) Jan. 13 (1700 hrs), gage height 1.95 ft (0.594 m), no other peak above base of 30 ft<sup>3</sup>/s (0.8 m<sup>3</sup>/s); minimum daily, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.43	.48	1.5	.58	.23	.11	0		
2			0	.30	.47	2.9	.58	.22	.11	.03		
3			0	.26	.47	2.1	.56	.20	.10	.06		
4			0	.23	.47	1.8	.63	.20	.10	.04		
5			0	.22	.47	4.5	1.5	.20	.11	.03		
6			0	.20	.60	5.0	.83	.20	.10	.02		
7			0	.19	.49	3.6	.75	.19	.09	.01		
8			0	.18	.46	2.0	.73	.19	.09	.01		
9			0	.32	.46	1.6	.69	.24	.09	.01		
10			0	.30	.46	1.4	.56	.23	.08	0		
11			0	4.0	.45	1.2	.50	.23	.08	0		
12			0	5.7	.46	1.1	.45	.21	.09	0		
13			0	9.2	.46	1.1	.43	.21	.09	0		
14			0	4.6	.95	1.0	.41	.20	.08	0		
15			0	2.4	2.1	1.0	.40	.19	.08	0		
16			0	1.9	5.4	.98	.38	.18	.07	0		
17			0	4.0	7.3	.96	.37	.17	.06	0		
18			0	2.4	8.8	.94	.36	.15	.05	0		
19			.13	1.8	13	.94	.35	.14	.06	0		
20			.15	1.5	6.8	.92	.35	.13	.06	0		
21			.19	1.0	10	.91	.35	.13	.04	0		
22			.10	.84	5.8	.89	.35	.13	.03	0		
23			.50	.66	4.3	.83	.32	.14	.03	0		
24			2.0	.59	3.6	.82	.30	.15	.03	0		
25			1.1	.55	3.1	.98	.28	.15	.03	0		
26			.38	.52	2.0	.79	.25	.14	.02	0		
27			.25	.51	2.4	.75	.25	.14	.01	0		
28			.22	.50	2.2	.68	.26	.13	.01	0		
29			.19	.49	1.9	.64	.25	.13	0	0		
30			.28	.49	---	.63	.24	.12	0	0		
31		---	.81	.48	---	.59	---	.12	---	0		---
TOTAL	0	0	6.30	46.76	85.85	45.05	14.26	5.39	1.90	.21	0	0
MEAN	0	0	.20	1.51	2.96	1.45	.48	.17	.063	.007	0	0
MAX	0	0	2.0	9.2	13	5.0	1.5	.24	.11	.06	0	0
MIN	0	0	0	.18	.45	.59	.24	.12	0	0	0	0
AC-FT	0	0	12	93	170	89	28	11	3.8	.4	0	0
CAL YR 1979	TOTAL	55.24	MEAN	.15	MAX	4.4	MIN	0	AC-FT	110		
WTR YR 1980	TOTAL	205.72	MEAN	.56	MAX	13	MIN	0	AC-FT	408		

## NAPA RIVER BASIN

11455900 NAPA RIVER AT CALISTOGA, CA

LOCATION.--Lat 38°34'38", long 122°34'49", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on right bank at end of Pine Street in Calistoga, 200 ft (61 m) downstream from bridge on State Highway 29, and 0.6 mi (1.0 km) downstream from Cyrus Creek.

DRAINAGE AREA.--21.9 mi<sup>2</sup> (56.7 km<sup>2</sup>).

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 m<sup>3</sup>). No diversion above station.

AVERAGE DISCHARGE.--5 years, 20.8 ft<sup>3</sup>/s (0.589 m<sup>3</sup>/s), 15,070 acre-ft/yr (18.6 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,400 ft<sup>3</sup>/s (125 m<sup>3</sup>/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 ft<sup>3</sup>/s (28 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 13	1545	2910 82.4	13.57 4.136
Feb. 17	1715	*3190 90.3	14.29 4.356

Minimum daily discharge, 0.01 ft<sup>3</sup>/s (<0.001 m<sup>3</sup>/s) several days in October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.94	4.0	132	14	95	7.6	3.4	1.6	.48	.09	.13
2	.01	1.0	3.9	67	14	84	7.6	3.3	1.4	.48	.12	.15
3	.01	7.0	3.5	46	13	84	7.1	3.1	1.3	.47	.12	.18
4	.01	3.3	3.2	35	12	78	9.6	3.0	1.3	.46	.10	.19
5	.01	2.2	3.3	29	11	285	22	2.7	1.3	.45	.07	.14
6	.01	2.8	3.6	25	11	225	15	2.6	1.2	.43	.13	.15
7	.01	2.9	4.7	22	9.8	147	12	2.5	1.2	.41	.10	.12
8	.01	2.5	4.7	20	9.1	101	9.8	2.3	1.1	.39	.11	.11
9	.01	2.5	4.2	21	8.4	76	9.8	3.4	1.0	.37	.10	.15
10	.01	2.4	4.5	20	8.3	61	9.5	3.1	.83	.36	.11	.16
11	.01	2.4	5.2	242	7.5	50	8.7	2.9	.67	.34	.10	.18
12	.01	2.3	5.6	1030	6.1	40	7.9	2.7	.90	.20	.10	.17
13	.01	2.4	5.5	1240	6.5	31	7.1	2.6	.93	.16	.07	.16
14	.01	2.4	5.1	509	7.0	29	6.7	2.6	.91	.13	.10	.14
15	.02	2.6	4.9	309	16	28	6.7	2.3	.88	.15	.12	.15
16	.02	12	4.6	492	162	24	6.4	2.2	.83	.14	.11	.14
17	.01	15	4.5	293	1030	22	6.1	2.0	.81	.11	.11	.14
18	.19	4.6	4.5	169	538	21	5.9	2.0	.83	.10	.10	.14
19	1.4	3.2	15	102	791	18	5.7	2.0	.78	.11	.12	.15
20	.97	2.7	22	70	419	17	7.3	1.8	.76	.12	.11	.14
21	.46	2.6	59	53	517	17	7.3	1.7	.71	.13	.13	.13
22	.24	14	24	44	338	16	6.9	1.6	.65	.09	.23	.09
23	1.1	19	237	36	222	16	5.8	1.5	.63	.10	.16	.07
24	2.3	14	644	32	146	14	5.2	1.8	.58	.12	.11	.06
25	42	16	234	29	123	14	4.9	2.1	.59	.15	.12	.05
26	1.4	14	83	26	83	13	4.5	2.0	.59	.13	.12	.04
27	.58	8.0	45	23	153	11	4.1	2.0	.56	.11	.13	.05
28	.67	5.7	32	21	235	10	4.3	1.7	.54	.09	.13	.07
29	.76	4.9	26	19	138	9.3	4.1	1.7	.49	.12	.15	.06
30	.77	4.4	58	16	---	9.0	3.5	1.7	.52	.10	.14	.05
31	.93	---	293	15	---	8.6	---	1.6	---	.12	.15	---
TOTAL	53.96	179.74	1851.5	5187	5048.7	1653.9	229.1	71.9	26.39	7.12	3.66	3.66
MEAN	1.74	5.99	59.7	167	174	53.4	7.64	2.32	.88	.23	.12	.12
MAX	.42	.19	.644	1240	1030	285	22	3.4	1.6	.48	.23	.19
MIN	.01	.94	3.2	15	6.1	8.6	3.5	1.5	.49	.09	.07	.04
AC-FT	107	357	3670	10290	10010	3280	454	143	52	14	7.3	7.3

CAL YR 1979	TOTAL	8206.51	MEAN 22.5	MAX 644	MIN .01	AC-FT 16280
WTR YR 1980	TOTAL	14316.63	MEAN 39.1	MAX 1240	MIN .01	AC-FT 28400

## 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 mi<sup>2</sup> (210.8 km<sup>2</sup>).

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 fair. Some regulation by Bell Canyon Reservoir since 1959, capacity, 2,530 acre-ft (3.12 hm<sup>3</sup>). Small diversions above station for irrigation of about 1,500 acres (6.07 km<sup>2</sup>).

AVERAGE DISCHARGE.--44 years, 93.4 ft<sup>3</sup>/s (2.645 m<sup>3</sup>/s), 67,670 acre-ft/yr (83.4 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft<sup>3</sup>/s (357 m<sup>3</sup>/s) Dec. 22, 1955, gage height, 18.17 ft (5.538 m) present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,200 ft<sup>3</sup>/s (119 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 13	1900	6420 182	13.29 4.051
Feb. 17	2045	*7200 204	14.00 4.267

Minimum daily discharge, 0.10 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	3.9	10	245	72	375	45	22	11	2.8	1.5	1.1
2	.11	4.1	9.4	202	68	356	40	21	9.3	2.8	.88	1.2
3	.11	12	8.8	138	66	352	37	21	8.4	2.8	.62	1.2
4	.10	20	8.4	108	64	285	48	21	8.9	2.7	.61	1.1
5	.13	10	8.1	92	62	688	121	20	11	2.7	1.3	1.0
6	.34	7.6	7.6	81	58	539	72	19	11	2.7	1.1	.92
7	.41	9.7	7.4	74	55	402	59	19	8.8	2.7	1.1	.86
8	.44	8.4	7.2	67	53	314	48	19	8.4	2.7	1.0	.80
9	.45	6.9	7.0	76	48	256	50	20	8.0	2.6	1.0	.88
10	.45	6.6	7.0	71	46	212	50	24	7.8	2.6	1.0	1.1
11	.45	6.3	6.9	582	46	174	45	22	7.8	2.6	1.0	1.4
12	.47	5.9	6.8	3630	42	148	43	21	7.8	2.6	1.0	1.2
13	.48	5.9	6.7	3770	42	127	41	21	7.8	2.6	1.3	.94
14	.48	5.2	6.6	1980	41	121	39	20	7.5	2.5	1.0	.84
15	.61	4.6	6.8	1050	78	113	35	18	6.6	2.5	.97	.96
16	.90	13	7.0	1610	626	100	33	19	5.9	3.3	.96	.88
17	.95	46	6.8	984	3100	93	32	17	5.2	2.9	.95	.82
18	.95	17	6.6	608	2250	87	32	15	4.9	2.6	.95	.64
19	1.5	11	26	410	2720	81	32	15	5.3	2.3	.94	.70
20	5.1	8.7	78	304	1470	72	35	14	5.2	2.2	.93	.76
21	4.4	7.7	120	241	2150	70	37	14	4.9	1.9	1.1	.73
22	3.2	22	80	192	1090	70	35	13	4.8	1.8	1.3	.66
23	2.5	49	300	159	690	68	33	13	4.5	1.6	1.1	.64
24	2.7	26	1360	137	502	66	30	14	3.9	1.6	1.1	.62
25	138	27	620	124	441	83	28	15	4.6	1.7	1.1	.59
26	27	24	220	111	336	62	27	15	3.6	1.4	1.1	.56
27	9.6	19	140	102	490	54	27	14	3.3	1.3	1.1	.54
28	6.3	15	105	94	765	54	26	12	3.3	1.3	1.1	.52
29	5.1	13	120	88	486	52	24	12	3.3	.90	1.4	.52
30	4.7	11	150	81	---	49	23	13	3.1	.76	1.3	.50
31	4.0	---	390	76	---	46	---	11	---	.68	1.2	---
TOTAL	222.06	426.5	3844.1	17487	17957	5569	1227	534	195.9	68.14	33.01	25.18
MEAN	7.16	14.2	124	564	619	180	40.9	17.2	6.53	2.20	1.06	.84
MAX	138	49	1360	3770	3100	688	121	24	11	3.3	1.5	1.4
MIN	.10	3.9	6.6	67	41	46	23	11	3.1	.68	.61	.50
AC-FT	440	846	7620	34690	35620	11050	2430	1060	389	135	65	50

CAL YR 1979	TOTAL	25139.45	MEAN	68.9	MAX	1360	MIN	.10	AC-FT	49860
WTR YR 1980	TOTAL	47588.89	MEAN	130	MAX	3770	MIN	.10	AC-FT	94390

## 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 mi<sup>2</sup> (565 km<sup>2</sup>).

## 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 except those for period of no gage-height record, June 1-26, which are fair. Flow slightly regulated by Bell Canyon Reservoir beginning in 1959, capacity, 2,530 acre-ft (3.12 hm<sup>3</sup>) and Lake Hennessey beginning in December 1945, capacity, 31,000 acre-ft (38.2 hm<sup>3</sup>). Diversions for irrigation of about 10,000 acres (40.5 km<sup>2</sup>) above station.

AVERAGE DISCHARGE.--24 years, 181 ft<sup>3</sup>/s (5.126 m<sup>3</sup>/s), 131,100 acre-ft/yr (162 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,900 ft<sup>3</sup>/s (479 m<sup>3</sup>/s) Jan. 31, 1963, gage height, 27.59 ft (8.409 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 13	2230	10900	309	19.13	5.831	Feb. 21	0615	7450	211	16.48	5.023
Feb. 18	0245	*12500	354	20.33	6.197						

Minimum daily discharge, 1.4 ft<sup>3</sup>/s (0.040 m<sup>3</sup>/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.5	15	522	195	991	121	63	26	6.6	2.9	4.3
2	1.5	2.1	15	307	186	936	115	61	25	7.6	3.5	4.1
3	1.5	16	14	231	180	1110	103	60	23	7.2	3.7	4.1
4	1.6	44	13	185	175	854	112	59	22	6.9	3.6	3.9
5	1.6	28	13	164	168	1340	311	56	23	6.5	3.7	3.8
6	1.7	15	12	143	160	1150	213	53	25	6.8	3.6	3.6
7	2.0	15	12	128	155	924	166	51	24	6.6	3.6	3.7
8	1.9	14	11	116	147	774	141	50	21	5.8	3.5	3.7
9	1.9	9.7	10	128	132	671	132	51	18	5.7	3.7	3.7
10	1.8	7.8	10	131	128	588	128	57	16	5.6	3.5	3.2
11	1.6	7.4	8.5	897	125	505	119	50	16	5.6	3.6	2.6
12	1.6	7.2	9.1	6910	120	431	112	50	15	5.6	3.5	2.4
13	1.6	6.5	7.8	6770	117	397	106	49	15	5.7	3.5	3.4
14	1.9	5.9	8.0	5350	115	377	103	48	15	6.1	3.7	3.6
15	1.8	5.2	9.7	2410	210	356	99	48	14	5.5	3.8	3.5
16	1.7	6.0	10	2750	1230	316	94	44	14	5.6	3.9	3.2
17	1.5	48	9.5	2150	5420	288	91	40	13	5.4	3.9	3.3
18	2.1	42	8.5	1470	7650	269	88	39	12	4.8	4.9	3.3
19	5.2	26	30	1050	7420	245	85	37	11	5.1	4.3	3.5
20	4.3	16	83	807	4090	222	88	34	11	5.2	4.2	3.5
21	5.0	12	200	639	5960	212	89	33	11	5.8	4.1	3.5
22	5.1	14	133	505	3030	201	87	32	10	5.0	4.2	3.4
23	7.5	67	289	419	2030	188	86	29	10	4.5	4.3	3.2
24	9.3	49	2330	367	1520	177	81	28	9.0	4.6	4.3	3.3
25	153	44	1180	338	1340	195	77	29	7.5	4.7	4.5	3.3
26	99	37	465	309	1100	160	75	29	6.0	5.6	4.3	3.4
27	34	30	278	282	1090	144	73	29	5.6	5.4	4.3	3.1
28	14	23	194	263	1660	140	71	29	5.3	5.2	4.4	2.7
29	7.1	20	155	245	1190	135	69	29	5.0	4.8	4.2	2.6
30	4.5	18	215	225	---	133	65	28	5.6	4.3	4.3	2.5
31	3.4	---	674	208	---	126	---	27	---	3.7	4.3	---
TOTAL	382.1	638.3	6422.1	36419	47043	14555	3300	1322	434.0	173.5	121.8	101.4
MEAN	12.3	21.3	207	1175	1622	470	110	42.6	14.5	5.6	3.93	3.38
MAX	153	67	2330	6910	7650	1340	311	63	26	7.6	4.9	4.3
MIN	1.4	2.1	7.8	116	115	126	65	27	5.0	3.7	2.9	2.4
AC-FT	758	1270	12740	72240	93310	28870	6550	2620	861	344	242	201
CAL YR 1979 TOTAL	49799.5			MEAN 136	MAX 3120	MIN 1.4	AC-FT 98780					
WTR YR 1980 TOTAL	110912.2			MEAN 303	MAX 7650	MIN 1.4	AC-FT 220000					



## 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  $\pm 1.0^{\circ}\text{C}$  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,  $28.0^{\circ}\text{C}$  July 13, 1979; minimum recorded,  $3.0^{\circ}\text{C}$  Dec. 31, 1978; Jan. 1, 1979.

EXTREMES FOR CURRENT YEAR.--  
 SPECIFIC CONDUCTANCE: Maximum recorded, 375 micromhos May 8-9; minimum recorded, 238 micromhos Apr. 5.  
 WATER TEMPERATURES: Maximum recorded,  $20.5^{\circ}\text{C}$  on many days; minimum recorded,  $11.0^{\circ}\text{C}$  Mar. 26.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO <sub>3</sub> )
OCT 17...	1245	1.5	463	7.8	18.0	.40	8.0	--	23	K3	190
NOV 07...	1330	13	401	7.8	15.0	1.3	10.7	--	K120	48	160
DEC 04...	1130	13	391	8.0	9.0	.90	13.4	--	41	K15	150
JAN 22...	1030	510	231	6.9	10.5	21	10.5	--	140	K25	92
FEB 19...	1215	9830	116	7.0	12.5	76	9.8	--	2400	770	44
MAR 19...	1300	243	280	7.7	12.0	12	10.3	95	190	94	120
APR 22...	1130	86	316	7.8	14.5	5.5	10.2	99	82	24	130
MAY 21...	1205	33	381	8.0	20.5	2.5	10.7	116	38	37	160
JUN 24...	1225	9.7	422	8.0	22.0	1.9	11.0	124	16	K7	180
JUL 15...	1225	5.4	440	8.0	23.5	1.6	10.9	127	13	14	200
AUG 19...	1125	4.2	455	7.7	19.5	1.8	10.0	109	K120	24	200
SEP 23...	1140	3.2	464	8.1	19.5	1.3	11.6	125	K7	27	210

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 1979 TO SEPTEMBER 1980

DATE	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)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 17...	8	29	28	22	20	.7	2.9	180	39	20
NOV 07...	29	29	21	27	44	.9	2.9	130	43	31
DEC 04...	24	27	21	29	47	1.0	2.2	130	34	26
JAN 22...	6	17	12	11	20	.5	2.5	86	21	8.1
FEB 19...	2	8.3	5.6	5.5	21	.4	1.9	42	4.7	3.8
MAR 19...	24	21	17	15	21	.6	1.8	98	25	8.8
APR 22...	12	23	18	17	22	.6	2.0	120	29	11
MAY 21...	16	26	22	20	22	.7	2.2	140	32	13
JUN 24...	14	31	26	21	20	.7	2.4	170	35	15
JUL 15...	30	34	28	23	20	.7	2.8	170	40	28
AUG 19...	12	33	29	24	20	.7	2.5	190	38	17
SEP 23...	18	32	31	23	19	.7	2.0	190	39	18
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, DIS- SOLVED 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)
OCT 17...	.3	24	276	273	.38	1.12	.04	.01	.02	.01
NOV 07...	.3	31	260	270	.35	10.5	1.4	1.4	.08	.01
DEC 04...	.4	30	252	252	.34	8.85	1.1	1.0	.05	.04
JAN 22...	.1	31	165	163	.22	227	1.9	1.9	.04	.04
FEB 19...	.0	21	--	78	.13	2440	.37	.37	.09	.06
MAR 19...	.1	31	192	186	.26	126	1.6	1.6	.00	.00
APR 22...	.2	17	217	197	.30	50.4	1.8	1.7	.01	.01
MAY 21...	.3	34	242	243	.33	21.6	1.9	2.0	.03	.01
JUN 24...	.3	30	263	270	.36	6.39	1.6	1.6	.00	.00
JUL 15...	.4	30	293	295	.40	4.27	1.4	1.4	.01	.00
AUG 19...	.3	29	293	291	.40	3.32	1.1	.94	.01	.00
SEP 23...	.2	24	--	270	.42	2.70	.76	.66	.00	.00
DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)
OCT 17...	.43	.43	.45	.44	.49	.05	.05	1.6	--	--
NOV 07...	.41	.48	.49	.49	1.9	.15	.13	--	13	.1
DEC 04...	.77	.44	.82	.48	1.9	.05	.04	4.0	--	--
JAN 22...	.32	.20	.36	.24	2.3	.11	.07	5.0	--	--
FEB 19...	1.0	.36	1.1	.42	1.5	.35	.06	--	4.9	2.4
MAR 19...	.56	.53	.56	.53	2.2	.05	.05	3.1	--	--
APR 22...	.76	.77	.77	.78	2.6	.05	.04	2.5	--	--
MAY 21...	.97	.82	1.0	.83	2.9	.05	.04	--	5.7	.0
JUN 24...	1.0	.51	1.0	.51	2.6	.05	.05	7.7	--	--
JUL 15...	2.3	.39	2.3	.39	3.7	.07	.06	1.7	--	--
AUG 19...	.80	.68	.81	.68	1.9	.04	.05	--	5.0	--
SEP 23...	.42	.40	.42	.40	1.2	.03	.02	2.3	--	--

## 11458000 NAPA RIVER NEAR NAPA, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC		BARIUM, TOTAL		CADMIUM		CHROMIUM		COBALT	
		TOTAL (UG/L AS AS)	DIS- SOLVED (UG/L AS AS)	TOTAL RECOV- ERABLE (UG/L AS BA)	DIS- SOLVED (UG/L AS BA)	TOTAL RECOV- ERABLE (UG/L AS CD)	DIS- SOLVED (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CR)	DIS- SOLVED (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CO)	
NOV 07...	1330	2	--	200	90	0	<1	0	0	1	
FEB 19...	1215	3	1	300	30	3	<1	50	0	24	
MAR 19...	1300	--	--	--	--	--	--	--	--	--	
MAY 21...	1205	2	2	100	70	0	<1	0	0	1	
JUN 24...	1225	--	--	--	--	--	--	--	--	--	
AUG 19...	1125	2	2	100	100	0	<1	10	0	0	
SEP 23...	1140	--	--	--	--	--	--	--	--	--	
DATE		COPPER		IRON		LEAD		MANGANESE		MERCURY	
		TOTAL RECOV- ERABLE (UG/L AS CU)	DIS- SOLVED (UG/L AS CU)	TOTAL RECOV- ERABLE (UG/L AS FE)	DIS- SOLVED (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS MN)	DIS- SOLVED (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS HG)	
NOV 07...	<3	6	1	180	20	5	0	20	20	.1	
FEB 19...	<3	63	5	25000	190	22	0	560	7	.2	
MAR 19...	--	--	--	--	--	--	--	--	--	--	
MAY 21...	<3	5	2	200	<10	2	0	20	10	1.5	
JUN 24...	--	--	--	--	--	--	--	--	--	--	
AUG 19...	<3	12	3	120	20	4	1	30	20	.1	
SEP 23...	--	--	--	--	--	--	--	--	--	--	
DATE		NICKEL		SELENIUM		SILVER		ZINC			
		TOTAL RECOV- ERABLE (UG/L AS NI)	DIS- SOLVED (UG/L AS NI)	TOTAL RECOV- ERABLE (UG/L AS SE)	DIS- SOLVED (UG/L AS SE)	TOTAL RECOV- ERABLE (UG/L AS AG)	DIS- SOLVED (UG/L AS AG)	TOTAL RECOV- ERABLE (UG/L AS ZN)	DIS- SOLVED (UG/L AS ZN)		
NOV 07...	.1	6	0	0	0	0	0	40	10		
FEB 19...	.0	200	2	0	0	1	0	140	20		
MAR 19...	--	--	--	--	--	0	--	--	--		
MAY 21...	.0	5	0	0	0	0	0	50	<3		
JUN 24...	--	--	--	--	--	0	--	--	--		
AUG 19...	.0	3	2	0	0	0	0	20	<3		
SEP 23...	--	--	--	--	--	0	--	--	--		

## NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE TIME	OCT 17,79 1245	MAR 19,80 1300	MAY 21,80 1205	JUN 24,80 1225
TOTAL CELLS/ML	350	620	650	1200
DIVERSITY: DIVISION	0.9	1.5	1.5	1.1
..CLASS	0.9	1.5	1.5	1.1
...ORDER	1.1	2.0	1.8	1.7
...FAMILY	1.9	2.2	2.1	2.0
....GENUS	2.2	2.2	2.1	2.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....CHLOROCOCCACEAE								
.....CHLOROCOCCUM	--	-	240#	40	--	-	--	-
....COELASTRACEAE								
.....COELASTRUM	--	-	--	-	--	-	--	-
....OOCYSTACEAE								
.....ANKISTRODESMUS	--	-	--	-	--	-	26	2
.....CHODATELLA	--	-	--	-	--	-	--	-
.....KIRCHNERIELLA	--	-	--	-	26	4	--	-
.....SELENASTRUM	13	4	13	2	--	-	--	-
.....TETRAEDRON	--	-	--	-	--	-	13	1
....SCENEDESMACEAE								
.....CRUCIGENIA	--	-	--	-	--	-	--	-
.....SCENEDESMUS	51	15	--	-	130#	20	150	13
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	39	6	--	-	730#	61
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCEAE								
.....CYCLOTELLA	13	4	39	6	26	4	39	3
.....MELOSIRA	--	-	--	-	--	-	--	-
...PENNALES								
....ACHNANTHACEAE								
.....ACHNANTHES	64#	19	--	-	--	-	39	3
....COCCONEIS	26	7	--	-	--	-	26	2
....RHOICOSPHEA	--	-	--	-	--	-	--	-
...DIATOMACEAE								
.....DIATOMA	--	-	--	-	--	-	--	-
....FRAGILARIACEAE								
.....FRAGILARIA	--	-	--	-	--	-	--	-
....GOMPHONEMACEAE								
.....GOMPHONEMA	--	-	--	-	--	-	26	2
....NAVICULACEAE								
.....NAVICULA	--	-	13	2	39	6	64	5
....NITZSCHACEAE								
.....NITZSCHIA	170#	48	90	15	52	8	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOMONADACEAE								
.....CRYPTOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
.....AGMENELLUM	13	4	--	-	13	2	26	2
.....ANACYSTIS								
...HORMOGONALES								
....NOSTOCACEAE								
.....ANABAENA	--	-	--	-	350#	54	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
....EUGLENACEAE								
.....EUGLENA	--	-	180#	29	13	2	64	5
....TRACHELOMONAS	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
....GLENODINIACEAE								
.....GLENODINIUM	--	-	--	-	--	-	--	-

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 QUANTATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE TIME	JUL 15,80 1225	AUG 19,80 1125	SEP 23,80 1140
TOTAL CELLS/ML	1500	1300	440
DIVERSITY: DIVISION	1.6	1.4	1.4
..CLASS	1.6	1.4	1.4
..ORDER	2.0	2.0	1.7
...FAMILY	2.7	2.5	2.6
....GENUS	3.3	3.0	2.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
...CHLOROCOCCACEAE						
....CHLOROCOCCUM	--	-	--	-	--	-
....COELASTRACEAE						
....COELASTRUM	210	14	--	-	--	-
....OOCYSTACEAE						
....ANKISTRODESMUS	26	2	52	4	--	-
....CHODATELLA	--	-	--	-	13	3
....KIRCHNERIELLA	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-
....SCENEDESMACEAE						
....CRUCIGENIA	180	12	--	-	--	-
....SCENEDESMUS	150	10	52	4	180#	41
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CARTERIA	64	4	--	-	--	-
....CHLAMYDOMONAS	90	6	52	4	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	--	-	230#	18	26	6
....MELOSIRA	--	-	480#	36	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	13	3
....COCCONEIS	--	-	26	2	--	-
....RHOICOSPHEA	13	1	13	1	13	3
...DIATOMACEAE						
....DIATOMA	--	-	52	4	--	-
...FRAGILARIACEAE						
....FRAGILARIA	26	2	--	-	13	3
...GOMPHONEMACEAE						
....GOMPHONEMA	13	1	39	3	13	3
...NAVICULACEAE						
....NAVICULA	77	5	26	2	26	6
...NITZSCHACEAE						
....NITZSCHIA	64	4	52	4	100#	24
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
....CRYPTOMONADACEAE						
....CRYPTOMONAS	51	3	26	2	13	3
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	100	7	--	-	--	-
....ANACYSTIS	400#	27	180	14	26	6
...HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	26	2	--	-
....TRACHELOMONAS	--	-	13	1	--	-
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE						
...PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	13	1	--	-	--	-

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

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



## 227

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

## NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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.	SED.	SED.	SED.	SED.
						SUSP. FALL DIAM. % FINER THAN .004 MM	SUSP. FALL DIAM. % FINER THAN .008 MM	SUSP. FALL DIAM. % FINER THAN .016 MM	SUSP. FALL DIAM. % FINER THAN .031 MM	
OCT 17...	1245	18.0	1.5	5	.02	--	--	--	--	--
NOV 07...	1330	15.0	13	3	.12	--	--	--	--	--
DEC 04...	1135	9.0	13	3	.11	--	--	--	--	--
JAN 22...	1345	10.5	495	52	71	--	--	--	--	--
FEB 19...	1620	12.5	9460	679	13600	37	45	57	67	
MAR 19...	1245	12.0	243	24	16	--	--	--	--	--
APR 22...	1115	14.5	87	11	2.6	--	--	--	--	--
MAY 21...	1155	20.5	33	5	.45	--	--	--	--	--
JUN 24...	1225	22.0	9.7	5	.12	--	--	--	--	--
JUL 15...	1155	22.0	5.4	4	.06	--	--	--	--	--
AUG 19...	1110	20.0	4.3	2	.02	--	--	--	--	--
SEP 23...	1105	17.0	3.3	1	.01	--	--	--	--	--

[illegible]



## NAPA RIVER BASIN

229

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 mi<sup>2</sup> (44.8 km<sup>2</sup>).

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

REVISED RECORDS.--WDR CA-79-2: 1971, 1973-75, 1978.

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 km<sup>3</sup>) and by several small lakes and diversion dams on the Silverado Golf Course; diversions above station for irrigation of about 500 acres (2.02 km<sup>2</sup>).

AVERAGE DISCHARGE.--10 years, 18.7 ft<sup>3</sup>/s (0.530 m<sup>3</sup>/s), 13,550 acre-ft/yr (16.7 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft<sup>3</sup>/s (89.5 m<sup>3</sup>/s), Feb. 19, 1980, gage height, 9.36 ft (2.853 m), from rating curve extended above 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s) on basis of slope area measurement made in February 1980 at gage height 9.36 ft (2.853 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft<sup>3</sup>/s (17 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 12	0315	2430 68.8	7.74 2.359
Feb. 19	0400	*3160 89.5	9.36 2.853

Minimum daily discharge, no flow May 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	1.2	1.7	36	2.5	42	2.9	1.3	.49	1.1	2.6	.83
2	.41	1.0	1.7	21	1.7	75	2.6	1.5	.01	1.8	1.6	.71
3	.50	1.8	1.7	16	2.3	143	3.0	1.5	.16	1.1	2.9	.94
4	.45	1.2	1.2	13	3.8	69	4.5	1.3	.64	1.1	3.9	.85
5	.53	4.9	1.2	11	1.9	114	11	1.4	1.5	1.1	4.6	2.3
6	.63	3.1	1.0	9.4	1.8	74	8.4	1.4	1.2	1.5	.78	3.0
7	.45	2.7	.97	8.0	6.8	52	6.0	.90	1.1	1.6	.33	3.0
8	.94	2.0	.98	6.8	4.5	38	4.5	.87	1.4	1.9	4.4	3.3
9	.29	1.6	1.1	13	3.1	30	4.0	1.1	1.3	1.6	1.6	3.4
10	1.5	1.4	1.1	13	3.0	18	3.7	3.2	1.9	1.1	1.6	2.6
11	2.4	1.7	.94	371	2.9	22	3.4	3.4	1.3	.91	1.2	2.7
12	2.5	1.5	1.1	1190	2.8	17	2.6	3.4	1.7	.79	.62	2.1
13	1.9	1.0	1.3	869	2.8	15	2.9	3.5	.67	1.3	.04	.17
14	.98	.89	1.4	447	9.0	16	2.5	3.3	1.1	1.8	.04	.61
15	1.3	.84	.95	223	8.0	14	3.0	3.2	.88	1.5	.10	.82
16	2.2	2.3	.86	311	203	11	5.5	2.7	.86	1.4	.54	.73
17	2.9	3.4	.83	259	655	9.2	3.7	.88	.89	1.1	.73	1.2
18	2.3	2.3	1.0	130	676	14	3.2	.75	.58	1.4	1.4	1.2
19	3.9	1.6	2.0	78	1090	11	3.3	1.0	.19	.39	1.0	.15
20	3.0	1.5	2.4	57	461	7.0	3.7	1.3	.27	.46	1.5	.52
21	1.8	1.4	1.7	42	731	6.0	3.5	1.7	.26	.63	.75	1.3
22	1.4	3.0	1.0	33	260	5.2	3.4	1.5	.30	.57	.82	1.3
23	1.4	5.6	1.43	24	123	4.8	2.0	2.2	.48	.38	.73	3.3
24	1.3	4.2	201	21	78	4.3	1.7	1.3	.50	.17	.92	1.1
25	43	5.6	81	16	63	5.8	1.2	0	.35	.49	1.4	1.9
26	11	7.1	32	14	42	4.9	.78	0	.58	.17	1.4	5.1
27	9.3	4.5	17	12	81	4.0	.74	.56	.61	.12	2.6	2.4
28	7.3	3.4	12	11	108	3.5	.95	3.5	.34	.02	1.8	2.8
29	6.0	2.5	9.5	6.0	58	3.2	1.6	1.1	.84	.13	1.4	3.2
30	2.6	2.7	39	5.4	---	2.8	2.3	.93	1.1	2.0	1.7	2.2
31	1.3	---	82	4.8	---	3.1	---	.97	---	2.5	1.7	---
TOTAL	116.36	104.93	668.93	4271.4	4685.9	838.8	102.57	51.66	23.50	32.13	46.70	55.73
MEAN	3.75	3.50	21.6	138	162	27.1	3.42	1.67	.78	1.04	1.51	1.86
MAX	4.3	18	201	1190	1090	143	11	3.5	1.9	2.5	4.6	5.1
MIN	.29	.84	.83	4.8	1.7	2.8	.74	0	.01	.02	.04	.15
AC-FT	231	208	1330	8470	9290	1660	203	102	47	64	93	111
CAL YR 1979 TOTAL	4463.46			MEAN 12.2	MAX 549	MIN 0	AC-FT 8850					
WTR YR 1980 TOTAL	10998.61			MEAN 30.1	MAX 1190	MIN 0	AC-FT 21820					

## NAPA RIVER BASIN

11458300 NAPA CREEK AT NAPA, CA

LOCATION.--Lat 38°18'07", long 122°18'10", in Napa Grant; Napa County, Hydrologic Unit 18050002, on left bank 150 ft (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 mi<sup>2</sup> (38.6 km<sup>2</sup>).

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, except those for periods of backwater and no gage-height record, which are fair. No regulation; small diversion above station for domestic use.

AVERAGE DISCHARGE.--10 years, 16.4 ft<sup>3</sup>/s (0.464 m<sup>3</sup>/s), 11,880 acre-ft/yr (14.6 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,660 ft<sup>3</sup>/s (75.3 m<sup>3</sup>/s) Jan. 16, 1978, gage height, 11.16 ft (3.402 m), from rating curve extended above 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft<sup>3</sup>/s (17 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	1500	800	22.7	5.98	1.823	Feb. 17	1845	1500	42.5	8.66	2.640
Jan. 11	2330	*2230	63.2	11.08	3.377	Feb. 20	2115	2080	58.9	10.62	3.237

Minimum daily discharge, 0.01 ft<sup>3</sup>/s (<0.001 m<sup>3</sup>/s) Oct. 1-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.21	1.3	49	11	64	6.1	2.7	1.4	.29	.17	.07
2	.01	.21	1.2	28	10	84	5.8	2.3	1.3	.40	.15	.07
3	.01	19	1.1	20	9.4	85	5.2	2.4	.96	.46	.15	.07
4	.01	9.6	.74	16	8.8	57	9.3	2.5	1.5	1.0	.16	.07
5	.02	3.2	.74	13	8.3	114	56	2.4	.77	1.0	.43	.10
6	.02	2.2	.64	11	7.6	85	20	2.1	.86	.20	.26	.12
7	.02	2.4	.64	9.2	7.0	62	13	2.1	.73	.20	.18	.10
8	.02	1.3	.64	8.0	6.7	51	11	2.1	.75	.20	.18	.07
9	.02	1.1	.60	15	6.5	43	11	3.4	.62	.20	.18	.06
10	.03	.84	.60	15	6.4	37	9.9	3.6	.84	.21	.18	.06
11	.03	.57	.56	525	6.0	29	8.6	2.6	.76	.23	.15	.07
12	.03	.52	.34	721	5.9	26	7.8	2.3	.75	.23	.14	.05
13	.03	.47	.36	612	5.7	24	7.8	2.1	.57	.22	.15	.07
14	.03	.42	.38	265	7.2	24	7.5	2.1	.52	.27	.16	.06
15	.03	.34	.35	161	58	22	8.1	1.8	.50	.29	.18	.05
16	.03	3.1	.34	264	398	19	5.2	1.4	.49	.29	.17	.04
17	.03	3.2	.34	191	623	17	4.9	1.2	.54	.29	.14	.04
18	1.3	1.8	.34	112	443	15	4.6	1.3	.54	.29	.12	.04
19	5.1	.94	2.5	77	731	13	4.6	1.2	.52	.28	.12	.06
20	4.3	.57	4.3	60	464	13	5.2	1.2	.51	.22	.12	.07
21	.35	.47	28	50	486	12	6.5	1.4	.47	.23	.12	.08
22	.18	5.7	8.8	41	272	12	6.3	1.3	.39	.23	.13	.08
23	.15	8.2	198	34	167	10	5.0	1.3	.38	.21	.18	.07
24	.12	5.0	296	30	125	9.0	3.9	1.4	.38	.26	.13	.04
25	55	5.2	117	26	102	12	3.7	1.5	.42	.20	.12	.03
26	3.4	4.9	41	22	76	8.5	3.5	1.6	.39	.20	.13	.03
27	.74	3.2	23	20	108	7.3	3.1	1.6	.36	.18	.21	.03
28	.34	2.6	15	18	118	6.3	3.0	1.5	.34	.18	.13	.03
29	.21	2.0	11	16	80	6.2	3.0	1.5	.27	.18	.08	.03
30	.20	1.5	54	13	---	6.2	3.0	1.5	.31	.17	.08	.03
31	.21	---	123	12	---	6.4	---	1.5	---	.18	.07	---
TOTAL	71.98	90.76	932.81	3454.2	4357.5	979.9	252.6	58.9	19.14	8.99	4.87	1.79
MEAN	2.32	3.03	30.1	111	150	31.6	8.42	1.90	.64	.29	.16	.060
MAX	55	19	296	721	731	114	56	3.6	1.5	1.0	.43	.12
MIN	.01	.21	.34	8.0	5.7	6.2	3.0	1.2	.27	.17	.07	.03
AC-FT	143	180	1850	6850	8640	1940	501	117	38	18	9.7	3.6
CAL YR 1979	TOTAL	5564.96	MEAN 15.2	MAX 821	MIN 0	AC-FT 11040						
WTR YR 1980	TOTAL	10233.44	MEAN 28.0	MAX 731	MIN .01	AC-FT 20300						

## NAPA RIVER BASIN

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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 mi<sup>2</sup> (32.6 km<sup>2</sup>).

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

REVISED RECORDS.--WDR CA-79-2: 1973 (P), 1975 (P), 1978 (P).

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 m<sup>2</sup>).

AVERAGE DISCHARGE.--9 years, 9.77 ft<sup>3</sup>/s (0.277 m<sup>3</sup>/s), 7,080 acre-ft/yr (8.73 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,020 ft<sup>3</sup>/s (57.2 m<sup>3</sup>/s), February 19, 1980, gage height, 5.96 ft (1.817 m), from rating curve extended above 700 ft<sup>3</sup>/s (19.8 m<sup>3</sup>/s) on basis of slope-area measurement; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft<sup>3</sup>/s (11 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	1945	529	15.0	3.94	1.201	Feb. 19	0345	*2020	57.2	5.96	1.817
Jan. 13	1245	1470	41.6	5.36	1.634						

Minimum daily discharge, 0.03 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) July 17, Sept. 16, Sept. 24-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.41	.93	68	3.5	29	3.1	.44	.23	.10	.08	.06
2	.06	.46	.87	36	3.6	44	2.7	.41	.23	.13	.07	.06
3	.06	10	.81	23	3.6	49	1.3	.46	.22	.12	.07	.06
4	.06	4.8	.74	17	3.5	35	3.7	.52	.24	.11	.08	.05
5	.07	2.6	.70	13	3.1	70	9.3	.56	.20	.11	.07	.06
6	.09	1.8	.36	10	2.8	53	4.8	.60	.35	.12	.08	.05
7	.09	1.5	.32	8.6	2.4	40	4.0	.56	.16	.11	.06	.05
8	.09	1.3	.30	7.8	2.2	30	3.7	.42	.17	.10	.06	.04
9	.09	1.1	.28	22	2.2	23	3.4	.57	.18	.09	.06	.05
10	.06	1.0	.31	21	2.8	18	3.3	.47	.18	.05	.07	.05
11	.07	.95	.28	315	2.8	15	3.0	1.0	.16	.07	.07	.05
12	.07	.86	.28	474	2.6	13	2.1	.99	.17	.07	.06	.05
13	.09	.80	.27	521	2.6	11	2.4	.97	.19	.06	.07	.04
14	.09	.79	.25	296	3.9	10	2.3	1.0	.19	.06	.06	.04
15	.09	.72	.24	148	28	9.5	1.8	.90	.17	.06	.07	.04
16	.09	2.3	.21	125	128	8.1	1.8	.80	.17	.06	.06	.03
17	.10	2.0	.19	126	295	7.4	1.5	.68	.19	.03	.06	.04
18	.52	1.2	.19	82	377	6.6	1.4	.61	.14	.05	.06	.04
19	1.7	.88	.86	48	694	5.9	1.4	.60	.13	.08	.06	.05
20	.87	.74	.87	31	381	5.5	2.2	.58	.13	.10	.05	.04
21	.08	.69	9.4	23	492	5.1	2.3	.54	.12	.11	.05	.04
22	.07	3.0	3.7	17	130	4.8	2.2	.49	.12	.10	.06	.04
23	.10	2.2	127	13	78	4.5	1.9	.47	.15	.07	.06	.04
24	.36	2.2	279	11	50	4.1	1.6	.88	.10	.06	.05	.03
25	16	2.1	150	9.7	38	6.5	1.4	.68	.10	.05	.05	.03
26	2.1	2.3	53	8.3	29	4.7	1.3	.41	.09	.05	.05	.03
27	.41	1.7	26	7.4	53	4.2	1.1	.36	.07	.07	.05	.03
28	.33	1.4	16	6.6	63	3.8	1.1	.29	.07	.06	.06	.04
29	.33	1.1	12	5.8	38	3.6	.90	.26	.08	.06	.06	.05
30	.32	1.0	66	5.1	---	3.4	.67	.29	.09	.07	.05	.04
31	.37	---	103	4.2	---	3.3	---	.25	---	.07	.06	---
TOTAL	24.89	53.90	854.36	2503.5	2915.6	531.0	73.67	18.06	4.79	2.45	1.92	1.32
MEAN	.80	1.80	27.6	80.8	101	17.1	2.46	.58	.16	.079	.062	.044
MAX	16	10	279	521	694	70	9.3	1.0	.35	.13	.08	.06
MIN	.06	.41	.19	4.2	2.2	3.3	.67	.25	.07	.03	.05	.03
AC-FT	49	107	1690	4970	5780	1050	146	36	9.5	4.9	3.8	2.6

CAL YR 1979	TOTAL	4799.03	MEAN 13.1	MAX 625	MIN 0	AC-FT	9520
WTR YR 1980	TOTAL	6985.46	MEAN 19.1	MAX 694	MIN .03	AC-FT	13860

## SONOMA CREEK BASIN

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 mi<sup>2</sup> (151.3 km<sup>2</sup>).

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 fair including those for periods of no gage-height record. No regulation; some diversion above station for irrigation of about 2,000 acres (8.09 km<sup>2</sup>).

AVERAGE DISCHARGE.--25 years, 71.4 ft<sup>3</sup>/s (2.022 m<sup>3</sup>/s), 51,700 acre-ft/yr (63.7 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,880 ft<sup>3</sup>/s (251 m<sup>3</sup>/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 ft<sup>3</sup>/s (116 m<sup>3</sup>/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 ft<sup>3</sup>/s (65 m<sup>3</sup>/s) and maximum (\*) from rating curve extended above 4,000 ft<sup>3</sup>/s (113.3 m<sup>3</sup>/s):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 24	unknown	3330 94.3	2.941	Feb. 17	unknown	*5900 167	12.54 3.822
Jan. 11	2315	4920 139	11.54 3.517				

Minimum daily discharge, 0.49 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	4.5	5.7	226	51	510	22	13	7.0	.90	.74	1.9
2	.58	15	5.5	134	47	390	21	13	6.9	3.3	.63	1.4
3	.70	66	5.3	90	43	280	20	13	6.4	3.3	.85	1.9
4	.75	13	5.1	68	40	360	47	12	6.8	2.8	1.1	1.5
5	.77	8.8	5.0	64	37	730	77	12	7.2	2.5	1.0	1.1
6	.85	8.2	4.8	60	34	370	60	11	6.3	2.2	1.2	1.5
7	.89	34	4.7	54	32	200	33	11	5.2	2.1	1.3	1.4
8	1.1	15	4.5	56	30	130	32	9.9	5.0	2.1	1.3	1.2
9	1.2	8.2	4.4	58	29	104	29	13	4.3	2.2	1.3	1.2
10	1.3	5.9	4.3	66	28	96	26	15	4.0	2.1	1.1	1.5
11	1.2	5.0	4.2	1270	28	88	25	11	3.6	2.0	1.1	1.4
12	1.0	4.6	4.2	2570	27	85	24	12	3.6	1.8	.78	1.3
13	1.1	4.3	4.5	2390	26	94	23	11	3.5	2.1	1.1	1.3
14	1.3	4.1	4.7	1190	26	88	22	11	3.4	2.7	1.3	1.2
15	1.4	3.9	4.8	730	90	79	21	11	2.8	2.3	1.7	1.3
16	1.4	100	4.5	1070	500	73	21	9.2	3.1	1.1	1.8	1.1
17	1.3	80	4.3	690	2800	68	20	9.1	3.4	.99	1.6	1.0
18	1.5	32	4.0	447	2600	62	20	7.5	2.2	1.5	1.7	.99
19	8.2	12	65	303	2170	51	19	8.1	3.3	1.3	2.0	1.1
20	8.0	4.0	102	233	1420	45	21	7.4	3.9	1.8	2.1	1.2
21	3.9	7.0	108	188	1450	43	23	6.9	3.8	1.9	1.6	1.7
22	2.4	76	60	156	874	42	22	7.0	3.4	1.4	1.9	2.0
23	2.0	60	250	129	680	39	20	6.9	2.6	1.4	2.5	1.7
24	2.3	35	1400	110	500	36	18	6.9	3.6	1.3	2.2	1.2
25	150	15	640	99	400	48	17	7.6	3.6	1.2	2.2	.76
26	30	20	235	91	300	39	16	7.2	3.5	1.2	2.2	1.0
27	13	13	116	82	850	33	16	7.7	2.0	.95	2.0	1.3
28	7.8	9.0	89	75	770	30	15	7.4	1.4	.84	2.1	1.1
29	5.0	7.0	70	68	550	27	15	7.2	1.3	.81	2.2	.98
30	3.6	6.2	142	61	---	25	15	7.3	1.1	.75	2.0	.78
31	2.7	---	506	55	---	24	---	7.5	---	.66	2.2	---
TOTAL	257.73	676.7	3867.5	12883	16432	4289	760	299.8	118.2	53.50	48.80	39.01
MEAN	8.31	22.6	125	416	567	138	25.3	9.67	3.94	1.73	1.57	1.30
MAX	150	100	1400	2570	2800	730	77	15	7.2	3.3	2.5	2.0
MIN	.49	3.9	4.0	54	26	24	15	6.9	1.1	.66	.63	.76
AC-FT	511	1340	7670	25550	32590	8510	1510	595	234	106	97	77
CAL YR 1979	TOTAL	21553.01	MEAN	59.0	MAX	2930	MIN	.29	AC-FT	42750		
WTR YR 1980	TOTAL	39725.24	MEAN	109	MAX	2800	MIN	.49	AC-FT	78790		

## 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 mi<sup>2</sup> (74.9 km<sup>2</sup>).

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. 16 to Apr. 18, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--5 years, 18.8 ft<sup>3</sup>/s (0.532 m<sup>3</sup>/s), 13,620 acre-ft/yr (16.8 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,390 ft<sup>3</sup>/s (124 m<sup>3</sup>/s) Feb. 20, 1980, gage height, 18.16 ft (5.535 m); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft<sup>3</sup>/s (8.5 m<sup>3</sup>/s), and maximum(\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	1345	3110	88.1	14.36	4.377	Feb. 20	2000	*4390	124.3	18.16	5.535
Dec. 31	1145	499	14.1	6.97	2.124	Feb. 27	1745	716	20.3	7.59	2.313
Jan. 11	2330	2770	78.4	13.34	4.066	Mar. 2	2100	356	10.1	6.48	1.975
Feb. 17	1745	2500	70.8	12.57	3.831	Mar. 5	0015	619	17.5	7.32	2.231

Minimum daily discharge, no flow several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	1.1	88	8.7	80	5.3	1.6	.29	.01		
2		0	.97	53	8.8	142	5.0	1.9	.24	.01		
3		0	.81	38	7.1	125	4.8	1.8	.18	.01		
4		.03	.76	30	7.4	95	11	1.4	.22	0		
5		.17	.70	25	5.1	223	17	1.3	.23	0		
6		.03	.70	20	7.1	122	9.8	1.3	.21	0		
7		9.0	.70	16	4.6	78	5.6	1.5	.18	0		
8		1.3	.62	12	3.3	60	4.7	1.1	.17	0		
9		.50	.56	48	3.2	49	4.2	1.7	.14	0		
10		.32	.56	51	3.0	41	3.9	2.3	.13	0		
11		.27	.56	958	2.7	33	3.4	1.6	.09	0		
12		.24	.56	1040	2.8	27	3.2	1.4	.10	0		
13		.25	.56	1140	4.0	24	3.3	1.5	.13	0		
14		.20	.56	460	5.6	23	3.2	1.5	.09	0		
15		.20	.56	328	68	21	3.0	2.0	.07	0		
16		2.8	.56	296	631	19	2.8	.98	.12	0		
17		5.9	.56	227	986	18	2.6	.94	.10	0		
18		1.3	.56	136	480	16	2.4	.43	.10	0		
19		.65	3.3	87	1010	14	2.7	.55	.10	0		
20		.45	3.3	64	981	12	3.3	.64	.07	0		
21		.38	42	52	708	11	4.1	.56	.08	0		
22		1.3	10	45	406	10	5.5	.37	.08	0		
23		3.7	306	37	196	9.2	3.6	.36	.06	0		
24		2.1	831	31	138	8.0	2.5	.41	.04	0		
25		3.2	308	24	122	8.4	2.7	.53	.05	0		
26		7.4	123	24	85	7.8	2.4	.53	.05	0		
27		2.6	69	21	255	7.4	2.3	.59	.05	0		
28		1.9	42	18	232	8.2	2.3	.53	.02	0		
29		1.5	30	15	112	7.1	2.1	.46	.02	0		
30		1.2	99	12	---	6.2	1.9	.46	.02	0		
31		---	175	9.1	---	5.7	---	.29	---	0		---
TOTAL	0	48.89	2053.56	5405.1	6483.4	1311.0	130.6	32.53	3.43	.03	0	0
MEAN	0	1.63	66.2	174	224	42.3	4.35	1.05	.11	.001	0	0
MAX	0	9.0	831	1140	1010	223	17	2.3	.29	.01	0	0
MIN	0	0	.56	9.1	2.7	5.7	1.9	.29	.02	0	0	0
AC-FT	0	97	4070	10720	12860	2600	259	65	6.8	.06	0	0
CAL YR 1979	TOTAL	7049.41	MEAN	19.3	MAX	831	MIN	0	AC-FT	13980		
WTR YR 1980	TOTAL	15468.54	MEAN	42.3	MAX	1140	MIN	0	AC-FT	30680		

## 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 mi<sup>2</sup> (45.6 km<sup>2</sup>).

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 except those for period of no gage-height record, Jan. 30 to Feb. 15, which are fair. Flow regulated by Stafford Lake beginning Dec. 1, 1951, capacity, 4,500 acre-ft (5.55 hm<sup>3</sup>) since Oct. 18, 1954; contents, 2,130 acre-ft (2.63 hm<sup>3</sup>) Sept. 30, 1979, and 1,130 acre-ft (1.39 hm<sup>3</sup>) Sept. 30, 1980. Diversion from Stafford Lake for municipal water supply began Apr. 25, 1952, and amounted to 1,243 acre-ft (1.53 hm<sup>3</sup>) 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).--34 years, 13.2 ft<sup>3</sup>/s (0.374 m<sup>3</sup>/s), 9,560 acre-ft/yr (11.8 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,360 ft<sup>3</sup>/s (66.8 m<sup>3</sup>/s) Feb. 20, 1980, gage height, 11.94 ft (3.639 m); no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,360 ft<sup>3</sup>/s (66.8 m<sup>3</sup>/s) Feb. 20, gage height, 11.94 ft (3.639 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.35	.88	26	11	68	4.0	2.5	2.3	8.9	12	.01
2	0	.41	.90	19	9.5	87	4.1	2.4	2.4	9.6	12	.01
3	0	23	.89	15	8.8	81	3.4	2.5	2.5	7.7	11	.01
4	0	2.6	.75	13	8.3	74	8.8	2.4	2.5	8.2	11	0
5	0	.95	.79	11	7.5	104	20	2.4	2.3	8.4	11	.01
6	0	5.5	.89	9.2	9.2	79	7.3	2.5	2.4	7.9	7.9	.01
7	0	17	.90	8.1	7.6	61	4.7	2.4	2.7	8.4	16	.02
8	0	.84	.90	7.2	5.7	50	3.8	2.4	5.0	9.0	16	.02
9	0	1.8	.90	28	4.3	41	3.9	3.0	10	9.2	16	.03
10	0	6.1	.89	25	4.0	33	3.7	1.9	10	9.3	15	.02
11	0	5.8	.90	275	3.8	34	3.2	1.8	10	8.9	15	.02
12	0	5.6	.90	337	4.0	21	2.9	1.8	10	8.9	15	.03
13	0	41	.90	754	5.0	18	3.2	2.0	10	8.9	15	.04
14	0	117	.80	475	10	19	3.2	2.0	8.9	8.9	16	.06
15	0	113	.75	261	67	18	3.3	1.9	9.5	8.9	16	.08
16	0	94	.75	195	307	15	3.1	2.0	9.6	8.9	16	.06
17	0	4.2	.75	166	608	13	2.4	2.2	9.5	8.4	17	.04
18	0	.87	.75	117	433	12	2.9	2.1	9.5	8.6	17	.07
19	2.8	.85	6.2	86	738	9.2	3.6	2.2	9.5	8.6	9.4	.10
20	.77	.67	9.5	66	624	9.0	4.0	2.2	9.5	8.2	.02	.07
21	.26	.65	15	53	592	7.5	13	2.3	9.5	8.1	0	.10
22	.21	7.2	1.7	44	263	6.6	2.9	2.4	9.6	8.1	.01	.09
23	.17	1.1	159	37	151	5.8	2.4	2.6	9.6	7.5	0	.07
24	2.3	1.9	274	32	111	5.5	2.4	2.5	9.6	7.7	0	.03
25	52	5.4	79	29	90	6.2	2.1	2.5	9.5	7.8	.01	.01
26	.83	2.3	30	25	70	5.8	2.1	2.6	9.4	7.6	.01	.03
27	.63	.85	21	23	109	5.1	2.1	2.5	9.4	7.6	0	.07
28	.45	.90	16	21	127	6.6	2.1	2.6	9.1	7.3	0	.08
29	.38	.90	13	19	86	4.4	2.5	2.0	9.2	7.5	.01	.09
30	.37	.90	58	16	---	4.1	2.4	2.1	9.0	12	0	.03
31	.36	---	53	13	---	4.0	---	2.2	---	12	.01	.03
TOTAL	61.53	463.64	750.59	3205.5	4474.7	907.8	129.5	70.9	232.0	267.0	264.37	1.31
MEAN	1.98	15.5	24.2	103	154	29.3	4.32	2.29	7.73	8.61	8.53	.044
MAX	52	117	274	754	738	104	20	3.0	10	12	17	.10
MIN	0	.35	.75	7.2	3.8	4.0	2.1	1.8	2.3	7.3	0	0
AC-FT	122	920	1490	6360	8880	1800	257	141	460	530	524	2.6
CAL YR 1979	TOTAL	3432.73	MEAN	9.40	MAX	274	MIN	0	AC-FT	6810		
WTR YR 1980	TOTAL	10828.84	MEAN	29.6	MAX	754	MIN	0	AC-FT	21480		

## 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 mi<sup>2</sup> (46.9 km<sup>2</sup>).

## 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 March 2 to May 22, which are fair. Flow regulated by Phoenix Lake 1.7 mi (2.7 km) upstream, capacity, 612 acre-ft (755,000 m<sup>3</sup>). Diversion on tributary above station by Marin Municipal Water District.

AVERAGE DISCHARGE.--29 years, 27.3 ft<sup>3</sup>/s (0.773 m<sup>3</sup>/s), 19,780 acre-ft/yr (24.4 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,620 ft<sup>3</sup>/s (103 m<sup>3</sup>/s) Dec. 22, 1955, gage height, 17.45 ft (5.319 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft<sup>3</sup>/s (28 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	1345	1940	54.9	14.22	4.334	Feb. 19	0315	2340	66.3	14.76	4.499
Jan. 11	2200	*2910	82.4	16.45	5.014						

Minimum daily discharge, 0.08 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Sept. 24, 25, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	1.4	4.3	82	9.0	71	4.0	2.2	1.8	.62	1.2	.21
2	.13	1.5	5.6	69	8.7	86	4.6	3.9	1.7	1.2	.13	.30
3	.21	53	5.2	64	8.1	78	8.8	5.1	1.7	.70	.09	.30
4	.16	26	4.7	32	8.0	88	32	2.2	2.4	.66	.14	.18
5	.15	7.1	4.1	19	6.9	156	72	2.1	1.7	.60	.26	.21
6	.13	14	3.3	15	5.6	94	22	2.1	1.6	.57	.22	.17
7	.12	29	3.2	13	5.6	71	18	2.1	1.4	.58	.22	.17
8	.17	5.7	3.1	11	5.2	56	12	2.2	3.0	.56	.19	.18
9	.16	3.4	3.0	105	4.7	46	6.5	5.9	4.8	.52	.15	.18
10	.23	2.6	3.1	63	4.6	33	5.8	4.0	1.3	.51	.14	.19
11	.18	2.3	2.8	990	4.6	21	5.1	2.1	1.2	.39	.14	.24
12	.19	2.2	2.8	962	4.2	17	4.5	2.0	1.1	.42	.13	.23
13	.20	2.3	2.5	686	4.5	16	4.2	2.1	1.1	.38	.20	.20
14	.20	2.1	2.6	439	11	16	4.0	1.9	1.2	.42	.22	.17
15	.25	2.1	2.5	240	50	16	3.6	1.6	1.1	.39	.21	.21
16	.21	56	2.5	231	387	16	3.6	1.5	1.1	.36	.16	.17
17	.19	26	2.4	192	677	15	3.7	2.6	.99	.39	.19	.20
18	.57	11	2.4	120	418	15	3.7	2.5	1.2	.37	.19	.20
19	9.1	8.3	12	64	1090	11	5.6	1.5	1.1	.42	.17	.18
20	1.9	5.7	15	39	646	6.7	12	1.4	1.1	.44	.17	.17
21	.81	2.9	52	45	461	6.4	10	1.5	.92	.38	.19	.13
22	.42	33	16	38	336	6.0	4.8	1.7	.87	.33	.18	.14
23	.50	20	255	18	183	5.5	3.8	2.1	.88	.33	.24	.14
24	8.9	9.4	713	16	136	5.0	3.4	2.4	.88	.37	.30	.08
25	133	13	264	15	118	5.1	3.4	2.3	.94	.23	.30	.08
26	7.3	10	126	13	82	4.4	3.5	2.3	.75	.21	.25	.10
27	2.2	5.7	68	12	156	4.3	4.0	2.1	.79	.25	.32	.10
28	1.3	4.8	29	11	138	4.0	3.0	2.2	.68	.24	.28	.12
29	1.2	4.1	16	11	91	4.0	2.7	2.0	.66	.23	.31	.10
30	1.3	3.6	223	10	---	4.1	2.3	2.0	.68	.21	.35	.08
31	1.4	---	127	9.2	---	4.0	---	2.7	---	.18	.23	---
TOTAL	172.90	368.2	1976.1	4634.2	5059.7	981.5	276.6	74.3	40.64	13.46	7.47	5.13
MEAN	5.58	12.3	63.7	149	174	31.7	9.22	2.40	1.35	.43	.24	.17
MAX	133	56	713	990	1090	156	72	5.9	4.8	1.2	1.2	.30
MIN	.12	1.4	2.4	9.2	4.2	4.0	2.3	1.4	.66	.18	.09	.08
AC-FT	343	730	3920	9190	10040	1950	549	147	81	27	15	10
CAL YR 1979	TOTAL	7460.17	MEAN	20.4	MAX	713	MIN	.05	AC-FT	14800		
WTR YR 1980	TOTAL	13610.20	MEAN	37.2	MAX	1090	MIN	.08	AC-FT	27000		

WATER-QUALITY RECORDS

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	---	11.0	---	---	---	---	---		---	---	---
2	---	---	---	---	---	---	---	---		---	---	---
3	---	14.0	---	10.5	---	---	---	---		---	---	---
4	---	---	11.0	---	---	12.0	---	---		---	---	---
5	---	15.5	---	11.0	---	---	---	---		---	---	---
6	---	---	11.0	---	---	---	---	---		---	---	---
7	---	---	11.0	---	---	11.5	---	---		---	---	---
8	---	---	---	11.0	---	---	---	---	16.0	---	---	---
9	16.0	---	---	11.0	---	---	---	---	---	---	---	---
10	---	12.0	---	---	---	---	---	---	---	---	---	---
11	17.0	---	9.5	13.0	---	13.0	---	---		---	---	---
12	---	---	---	13.5	10.5	---	---	---		---	---	---
13	---	---	---	---	---	---	---	---		---	---	---
14	---	---	---	---	---	13.0	---	---		---	---	---
15	---	---	---	12.5	13.0	---	---	---		---	16.0	15.5
16	---	---	---	13.5	12.5	---	16.0	---		---	---	---
17	---	12.5	---	---	13.5	---	---	---		---	---	---
18	---	---	---	11.0	13.0	---	---	---		---	---	---
19	---	---	---	---	13.0	---	---	---		---	---	---
20	16.0	11.0	---	---	---	---	---	---		---	---	---
21	---	9.0	---	10.5	---	---	---	15.5		---	---	---
22	---	---	---	---	---	---	---	---		---	---	---
23	---	---	---	---	---	---	---	---		---	---	---
24	---	---	---	10.5	---	---	---	---		---	---	---
25	---	---	---	---	---	---	---	---		---	---	---
26	---	11.5	12.0	---	---	---	---	---		---	---	---
27	---	---	---	---	---	---	---	---		---	---	---
28	---	10.0	---	---	---	---	---	---		---	---	---
29	---	10.5	9.0	---	---	---	---	---		---	---	---
30	13.0	---	12.0	---	---	---	---	---		---	---	---
31	---	---	12.5	8.5	---	---	---	---		---	---	---



11460000 CORTE MADERA CREEK AT ROSS, CA--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	.12	3	0	1.4	4	.02	4.3	5	.06
2	.13	3	0	1.5	4	.02	5.6	5	.08
3	.21	3	0	53	158	44	5.2	5	.07
4	.16	3	0	26	141	14	4.7	5	.06
5	.15	2	0	7.1	46	1.1	4.1	4	.04
6	.13	2	0	14	51	6.1	3.3	2	.02
7	.12	2	0	29	80	9.9	3.2	5	.04
8	.17	2	0	5.7	13	.23	3.1	5	.04
9	.16	2	0	3.4	2	.02	3.0	5	.04
10	.23	2	0	2.6	2	.01	3.1	4	.03
11	.18	1	0	2.3	2	.01	2.8	3	.02
12	.19	1	0	2.2	2	.01	2.8	4	.03
13	.20	1	0	2.3	2	.01	2.5	3	.02
14	.20	1	0	2.1	2	.01	2.6	3	.02
15	.25	2	0	2.1	2	.01	2.5	3	.02
16	.21	2	0	56	79	37	2.5	3	.02
17	.19	2	0	26	21	1.9	2.4	3	.02
18	.57	4	.02	11	7	.21	2.4	3	.02
19	9.1	27	.98	8.3	5	.11	12	15	.81
20	1.9	6	.04	5.7	3	.05	15	14	.71
21	.81	4	.01	2.9	1	.01	52	52	14
22	.42	3	0	33	53	13	16	9	.39
23	.50	3	0	20	37	2.6	255	265	523
24	8.9	18	5.2	9.4	11	.28	713	1050	3420
25	133	253	194	13	18	.83	264	90	81
26	7.3	19	.45	10	11	.37	126	35	12
27	2.2	8	.05	5.7	4	.06	68	24	4.4
28	1.3	6	.02	4.8	4	.05	29	14	1.1
29	1.2	5	.02	4.1	4	.04	16	8	.35
30	1.3	4	.01	3.6	4	.04	223	173	207
31	1.4	4	.02	---	---	---	127	65	25
TOTAL	172.90	---	200.82	368.2	---	132.00	1976.1	---	4290.41
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	82	24	5.3	9.0	4	.10	71	.22	4.2
2	69	21	5.4	8.7	4	.09	86	.29	7.9
3	64	29	5.0	8.1	4	.09	78	.26	5.5
4	32	14	1.2	8.0	4	.09	88	.39	30
5	19	6	.31	6.9	4	.07	156	.89	60
6	15	5	.20	5.6	4	.06	94	.26	6.6
7	13	5	.18	5.6	4	.06	71	.15	2.9
8	11	5	.15	5.2	4	.06	56	.13	2.0
9	105	80	42	4.7	4	.05	46	.10	1.2
10	63	22	4.4	4.6	4	.05	33	.8	.71
11	990	1240	7120	4.6	4	.05	21	.11	.62
12	962	1160	4940	4.2	5	.06	17	.6	.28
13	686	558	1290	4.5	5	.06	16	.4	.17
14	439	266	363	11	13	.51	16	.4	.18
15	240	70	46	50	144	32	16	.4	.17
16	231	60	39	387	845	1490	16	.4	.17
17	192	42	22	677	676	1750	15	.4	.16
18	120	23	7.5	418	281	384	15	.4	.16
19	64	15	2.6	1090	1150	4780	11	.3	.09
20	39	12	1.3	646	537	2140	6.7	.3	.05
21	45	19	2.3	461	263	423	6.4	.3	.05
22	38	14	1.4	336	181	190	6.0	.3	.05
23	18	6	.29	183	80	40	5.5	.3	.04
24	16	4	.17	136	52	19	5.0	.3	.04
25	15	4	.16	118	36	12	5.1	.3	.04
26	13	4	.14	82	17	3.8	4.4	.3	.04
27	12	4	.13	156	75	61	4.3	.3	.03
28	11	4	.12	138	41	17	4.0	.3	.03
29	11	4	.12	91	25	6.1	4.0	.3	.03
30	10	4	.11	---	---	---	4.1	.3	.03
31	9.2	4	.10	---	---	---	4.0	.3	.03
TOTAL	4634.2	---	13900.58	5059.7	---	11349.30	981.5	---	123.47

## CORTE MADERA CREEK BASIN

11460000 CORTE MADERA CREEK AT ROSS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	4.0	3	.03	2.2	3	.02	1.8	4	.02
2	4.6	3	.04	3.9	3	.03	1.7	4	.02
3	8.8	3	.07	5.1	3	.04	1.7	4	.02
4	32	10	1.3	2.2	3	.02	2.4	4	.03
5	72	30	9.3	2.1	3	.02	1.7	4	.02
6	22	5	.30	2.1	3	.02	1.6	4	.02
7	18	5	.24	2.1	3	.02	1.4	4	.02
8	12	5	.16	2.2	3	.02	3.0	4	.03
9	6.5	4	.07	5.9	5	.15	4.8	4	.05
10	5.8	4	.06	4.0	3	.03	1.3	4	.01
11	5.1	4	.06	2.1	3	.02	1.2	4	.01
12	4.5	3	.03	2.0	3	.02	1.1	4	.01
13	4.2	3	.03	2.1	3	.02	1.1	4	.01
14	4.0	3	.03	1.9	3	.02	1.2	4	.01
15	3.6	2	.02	1.6	3	.01	1.1	4	.01
16	3.6	2	.02	1.5	3	.01	1.1	4	.01
17	3.7	2	.02	2.6	3	.02	.99	4	.01
18	3.7	2	.02	2.5	3	.02	1.2	4	.01
19	5.6	2	.03	1.5	3	.01	1.1	5	.01
20	12	7	.33	1.4	3	.01	1.1	5	.01
21	10	5	.21	1.5	3	.01	.92	5	.01
22	4.8	3	.04	1.7	3	.01	.87	5	.01
23	3.8	3	.03	2.1	3	.02	.88	5	.01
24	3.4	3	.03	2.4	3	.02	.88	5	.01
25	3.4	3	.03	2.3	3	.02	.94	5	.01
26	3.5	3	.03	2.3	3	.02	.75	5	.01
27	4.0	3	.03	2.1	3	.02	.79	5	.01
28	3.0	3	.02	2.2	3	.02	.68	5	.01
29	2.7	3	.02	2.0	3	.02	.66	5	.01
30	2.3	3	.02	2.0	3	.02	.68	5	.01
31	---	---	---	2.7	4	.03	---	---	---
TOTAL	276.6	---	12.62	74.3	---	.74	40.64	---	.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	.62	5	.01	1.2	6	.02	.21	3	
2	1.2	5	.02	.13	4	0	.30	3	
3	.70	5	.01	.09	4	0	.30	3	
4	.66	5	.01	.14	4	0	.18	3	
5	.60	5	.01	.26	3	0	.21	3	
6	.57	5	.01	.22	3	0	.17	3	
7	.58	5	.01	.22	3	0	.17	3	
8	.56	5	.01	.19	3	0	.18	3	
9	.52	5	.01	.15	3	0	.18	3	
10	.51	5	.01	.14	3	0	.19	3	
11	.39	5	.01	.14	3	0	.24	3	
12	.42	5	.01	.13	3	0	.23	3	
13	.38	5	.01	.20	3	0	.20	3	
14	.42	5	.01	.22	3	0	.17	3	
15	.39	5	.01	.21	3	0	.21	3	
16	.36	5	0	.16	3	0	.17	3	
17	.39	5	.01	.19	3	0	.20	3	
18	.37	5	0	.19	3	0	.20	3	
19	.42	5	.01	.17	3	0	.18	3	
20	.44	5	.01	.17	3	0	.17	3	
21	.38	5	.01	.19	3	0	.13	3	
22	.33	5	0	.18	3	0	.14	3	
23	.33	4	0	.24	3	0	.14	3	
24	.37	4	0	.30	3	0	.08	3	
25	.23	4	0	.30	3	0	.08	3	
26	.21	4	0	.25	3	0	.10	3	
27	.25	4	0	.32	3	0	.10	3	
28	.24	4	0	.28	3	0	.12	3	
29	.23	4	0	.31	3	0	.10	3	
30	.21	4	0	.35	3	0	.08	3	
31	.18	4	0	.23	3	0	---	---	
TOTAL	13.46	---	.20	7.47	---	.02	5.13	---	0
YEAR	13610.20		30010.60						

## 11460000 CORTE MADERA CREEK AT ROSS, CA--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1979	172.90	200.82	11	212
NOVEMBER ...	368.20	132.00	3	135
DECEMBER ...	1976.10	4290.41	210	4500
JANUARY 1980	4634.20	13900.58	637	14500
FEBRUARY ...	5059.70	11349.30	768	12100
MARCH .....	981.50	123.47	11	134
APRIL .....	276.60	12.62	1	14
MAY .....	74.30	0.74	0	1
JUNE .....	40.64	0.44	0	0
JULY .....	13.46	0.20	0	0
AUGUST .....	7.47	0.02	0	0
SEPTEMBER ..	5.13	0.0	0	0
TOTAL .....	13610.20	30010.60	1641	31596

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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
NOV 05...	1315	15.5	3.9	35	.37	--	--	--	--	--
DEC 31...	1415	12.5	170	90	41	--	--	--	--	--
JAN 11...	1640	13.0	384	178	185	--	--	--	--	--
12...	1345	13.5	674	427	777	27	37	47	57	67
16...	1235	13.5	251	59	40	--	--	--	--	--
FEB 16...	1100	12.5	930	2770	6960	--	34	44	54	65
17...	1740	13.5	1560	2210	9310	--	27	37	46	57
18...	1200	13.0	446	254	306	30	42	52	64	74
DATE		SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
NOV 05...	--	98	--	100	--	--	--	--	--	--
DEC 31...	--	81	--	87	--	94	--	99	100	--
JAN 11...	--	76	--	88	--	97	--	100	--	--
12...	--	76	--	87	--	96	--	100	--	--
16...	--	81	--	89	--	97	--	100	--	--
FEB 16...	75	--	85	--	99	--	100	--	--	--
17...	66	--	77	--	92	--	100	--	--	--
18...	--	80	--	88	--	94	--	100	--	--

## ARROYO CORTE MADERA DEL PRESIDIO BASIN

11460100 ARROYO CORTE MADERA DEL PRESIDIO AT MILL VALLEY, CA

LOCATION.--Lat 37°53'50", long 122°32'06", in Sausalito Grant, Marin County, Hydrologic Unit 18050002, on right bank near south boundary of town of Mill Valley, 1 mi (2 km) upstream from mouth.

DRAINAGE AREA.--4.69 mi<sup>2</sup> (12.15 km<sup>2</sup>).

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.--13 years, 6.76 ft<sup>3</sup>/s (0.191 m<sup>3</sup>/s), 4,900 acre-ft/yr (6.04 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft<sup>3</sup>/s (33.4 m<sup>3</sup>/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 ft<sup>3</sup>/s (6.2 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 21	0200	289	8.18	5.21	1.588	Jan. 11	2315	*774	21.9	6.55	1.996
Dec. 24	2230	243	6.88	5.04	1.536	Feb. 19	0200	498	14.1	5.86	1.786
Dec. 30	0600	223	6.32	4.96	1.512						

Minimum daily discharge, 0.06 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Oct. 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.37	1.8	32	3.8	16	2.3	1.4	.73	.46	.26	.19
2	.14	.38	1.4	21	3.6	23	2.3	1.4	.72	.48	.23	.19
3	.11	14	1.3	14	3.6	20	2.2	1.4	.70	.47	.24	.19
4	.11	4.1	1.2	9.9	3.4	23	5.7	1.3	.87	.43	.27	.20
5	.11	2.2	1.1	7.7	3.3	30	13	1.3	.71	.42	.25	.21
6	.14	3.9	1.1	6.4	3.1	26	5.5	1.3	.67	.42	.28	.19
7	.12	5.8	1.1	5.6	2.9	21	4.6	1.2	.70	.40	.26	.20
8	.11	2.8	1.0	5.0	2.9	16	3.8	1.3	.70	.38	.24	.21
9	.11	1.7	1.0	25	2.8	13	4.2	2.2	.68	.37	.25	.21
10	.09	1.2	1.0	21	2.6	10	3.1	1.4	.66	.36	.24	.21
11	.09	1.0	.97	192	2.4	8.9	2.7	1.3	.61	.35	.24	.22
12	.09	.88	.84	238	2.4	7.6	2.2	1.3	.65	.33	.22	.21
13	.09	.80	.83	153	2.3	6.9	2.1	1.3	.83	.32	.20	.19
14	.07	.69	.83	110	6.1	7.8	2.1	1.2	.64	.36	.24	.16
15	.06	.65	.80	57	9.3	6.4	2.2	1.2	.62	.38	.24	.14
16	.06	13	.71	81	27	5.7	2.2	1.2	.64	.37	.24	.14
17	.07	7.3	.67	64	51	5.0	2.1	1.1	.62	.35	.24	.16
18	2.3	3.8	.67	38	54	4.8	3.2	1.1	.63	.34	.28	.14
19	11	2.1	5.6	25	268	4.4	1.9	1.1	.61	.36	.26	.13
20	1.1	1.5	3.6	18	104	4.1	3.1	1.1	.56	.30	.21	.15
21	.49	1.2	22	14	97	3.9	4.3	1.0	.52	.31	.20	.13
22	.38	12	5.6	11	52	3.8	2.5	.91	.50	.30	.21	.13
23	.37	9.6	39	8.9	37	3.6	2.2	.83	.48	.29	.22	.12
24	1.1	8.0	122	7.7	27	3.3	1.8	.87	.50	.33	.24	.11
25	14	8.4	93	7.2	21	3.7	1.7	.89	.53	.34	.24	.11
26	1.9	7.2	30	6.5	17	3.3	1.7	.88	.49	.32	.24	.11
27	.96	5.4	15	6.0	22	3.1	1.6	.87	.50	.29	.22	.11
28	.60	3.7	9.6	5.6	21	3.2	1.7	.89	.48	.30	.19	.11
29	.47	2.6	7.2	5.2	19	2.5	1.6	.85	.50	.28	.25	.10
30	.44	2.1	53	4.5	---	2.4	1.5	.80	.52	.28	.23	.11
31	.41	---	38	4.1	---	2.3	---	.73	---	.26	.20	---
TOTAL	37.23	128.37	461.92	1204.3	871.5	294.7	91.1	35.62	18.57	10.95	7.33	4.78
MEAN	1.20	4.28	14.9	38.8	30.1	9.51	3.04	1.15	.62	.35	.24	.16
MAX	14	14	122	238	268	30	13	2.2	.87	.48	.28	.22
MIN	.06	.37	.67	4.1	2.3	2.3	1.5	.73	.48	.26	.19	.10
AC-FT	74	255	916	2390	1730	585	181	71	37	22	15	9.5
CAL YR 1979	TOTAL	2579.71	MEAN 7.07	MAX 314	MIN .06	AC-FT 5120						
WTR YR 1980	TOTAL	3166.37	MEAN 8.65	MAX 268	MIN .06	AC-FT 6280						

## 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 mi<sup>2</sup> (211.6 km<sup>2</sup>).

PERIOD OF RECORD.--October 1974 to current year.

REVISED RECORDS.--WDR CA-79-2: 1975, 1978.

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 hm<sup>3</sup>), Kent Lake, capacity, 16,680 acre-ft (20.6 hm<sup>3</sup>), and Alpine Lake, capacity, 8,890 acre-ft (11.0 hm<sup>3</sup>), all of which divert water for domestic and industrial use in the county of Marin.

AVERAGE DISCHARGE.--6 years, 61.2 ft<sup>3</sup>/s (1.733 m<sup>3</sup>/s), 44,300 acre-ft/yr (54.6 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,430 ft<sup>3</sup>/s (125 m<sup>3</sup>/s) Jan. 12, 1980, gage height, 18.72 ft (5.706 m), from rating curve extended above 2,400 ft<sup>3</sup>/s (68.0 m<sup>3</sup>/s); minimum daily, 0.01 ft<sup>3</sup>/s (<0.001 m<sup>3</sup>/s) Sept. 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,430 ft<sup>3</sup>/s (125 m<sup>3</sup>/s) Jan. 12, gage height, 18.72 ft (5.706 m); minimum daily, 0.92 ft<sup>3</sup>/s (0.026 m<sup>3</sup>/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	5.2	16	427	64	390	31	25	3.1	1.8	2.0	1.1
2	2.4	5.0	15	263	57	356	29	31	3.1	2.3	2.0	1.0
3	2.7	22	14	181	54	436	26	31	3.1	3.0	2.1	.99
4	3.2	29	13	136	51	361	29	32	3.0	2.9	2.1	.94
5	3.3	20	12	107	45	695	134	31	3.2	2.6	2.2	.92
6	3.3	14	11	84	41	529	95	31	3.2	2.4	2.4	1.3
7	3.4	79	11	67	53	389	68	26	3.1	2.3	2.5	1.5
8	3.3	42	10	55	41	299	51	12	3.0	2.3	2.4	1.4
9	3.2	23	9.9	112	34	232	45	11	2.9	2.2	2.4	1.7
10	3.1	17	9.5	176	28	189	41	12	2.7	2.2	2.5	2.0
11	3.1	14	9.4	1690	28	156	36	7.0	2.4	2.1	2.5	2.4
12	3.1	12	9.0	2810	28	135	30	6.1	2.5	2.1	2.3	2.7
13	3.2	11	8.8	2140	33	121	24	5.6	2.4	2.1	2.2	2.6
14	3.5	10	8.7	1780	46	113	21	5.4	2.2	2.1	2.2	2.7
15	3.6	9.4	8.5	1340	101	110	17	5.1	2.5	2.0	2.2	2.4
16	3.5	28	8.3	1060	596	96	27	4.7	2.4	1.9	2.1	2.5
17	3.5	82	8.0	960	2040	87	31	4.6	2.3	1.9	2.2	2.6
18	3.6	36	7.9	688	2170	79	35	4.5	2.2	1.9	2.4	2.6
19	8.1	23	11	464	2690	73	27	4.3	2.1	1.9	2.3	2.6
20	6.4	17	17	335	1980	65	34	5.3	2.0	1.9	2.5	2.7
21	5.1	15	75	251	2320	61	39	7.1	2.0	1.9	2.5	2.6
22	4.6	22	42	201	1350	56	44	7.1	1.9	1.8	3.1	2.5
23	4.5	63	298	166	883	51	39	7.1	1.7	1.9	3.4	2.4
24	4.5	36	1920	138	573	47	37	7.2	1.7	1.9	3.4	2.5
25	92	35	1270	118	462	48	35	7.2	1.6	1.7	3.1	2.6
26	22	50	442	107	342	44	33	7.1	1.5	1.5	3.0	2.5
27	9.5	35	234	97	481	41	32	6.9	1.4	1.5	2.9	2.7
28	6.9	27	147	88	859	40	33	6.2	1.7	1.8	2.9	2.8
29	5.9	22	103	85	544	36	37	5.2	1.8	1.4	3.0	2.8
30	5.5	18	316	76	---	34	35	4.2	1.7	1.5	2.0	2.8
31	5.4	---	493	70	---	32	---	3.3	---	1.4	1.2	---
TOTAL	237.8	821.6	5558.0	16272	17994	5401	1195	363.2	70.4	62.2	76.0	64.85
MEAN	7.67	27.4	179	525	620	174	39.8	11.7	2.35	2.01	2.45	2.16
MAX	92	82	1920	2810	2690	695	134	32	3.2	3.0	3.4	2.8
MIN	2.4	5.0	7.9	55	28	32	17	3.3	1.4	1.4	1.2	.92
AC-FT	472	1630	11020	32280	35690	10710	2370	720	140	123	151	129
CAL YR 1979 TOTAL	25242.40			MEAN 69.2	MAX 1920	MIN 1.7	AC-FT 50070					
WTR YR 1980 TOTAL	48116.05			MEAN 131	MAX 2810	MIN .92	AC-FT 95440					

## 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 mi<sup>2</sup> (96.1 km<sup>2</sup>).

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

GAGE.--Waterstage recorder. Datum of gage is 56.74 ft (17.294 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow affected by regulation and diversions, beginning February 1979, by SoulaJule Reservoir on Arroyo Sausal, a tributary to Walker Creek. Reservoir capacity 10,570 acre-ft (13.0 hm<sup>3</sup>). There are small diversions above station for irrigation of about 50 acres (202,000 m<sup>2</sup>) and stock watering.

EXTREMES FOR PERIOD OF RECORD (Prior to regulation by SoulaJule Reservoir).--Maximum discharge, 5,420 ft<sup>3</sup>/s (153 m<sup>3</sup>/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 each year. 1979 to current year: Maximum discharge 2,880 ft<sup>3</sup>/s (81.6 m<sup>3</sup>/s) Jan. 11, 1980, gage height 17.52 ft (5.340 m); minimum daily, no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,880 ft<sup>3</sup>/s (81.6 m<sup>3</sup>/s) Jan. 11, gage height, 17.52 ft (5.340 m); minimum daily, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	5.6	90	30	213	17	5.2	5.7	5.8	4.5	4.8
2	0	0	5.0	57	28	187	16	5.2	5.7	5.7	4.7	4.8
3	0	.48	4.4	34	27	206	16	5.2	5.8	4.9	4.5	4.8
4	0	2.1	3.6	21	26	161	17	5.0	6.6	4.6	4.2	4.8
5	0	1.0	3.2	14	26	250	22	4.6	5.9	4.5	4.5	4.9
6	0	.62	3.0	9.4	28	202	18	4.4	5.6	4.6	4.4	4.9
7	0	7.5	2.6	7.0	8.9	155	16	4.4	5.4	4.8	4.2	5.2
8	0	4.4	2.3	5.7	6.7	127	14	4.4	5.1	4.9	4.2	4.9
9	0	1.9	2.1	9.3	11	102	15	5.6	5.1	5.0	4.2	4.9
10	0	1.2	1.9	11	11	82	13	9.1	4.8	5.3	4.3	4.9
11	0	.97	1.7	753	11	64	12	9.1	4.7	5.2	4.2	4.9
12	0	.85	1.4	1120	11	51	11	9.0	4.5	5.1	4.4	4.9
13	0	.76	1.3	1080	11	43	11	9.1	4.5	5.2	4.9	4.8
14	0	.59	1.2	1050	11	41	9.9	8.1	4.2	5.1	4.9	4.8
15	0	.50	1.2	626	33	39	9.7	3.2	4.2	4.8	4.8	4.8
16	0	6.4	1.2	610	289	31	9.4	3.8	4.1	5.1	4.8	4.7
17	0	17	1.1	495	1190	28	8.4	3.7	4.2	5.1	4.9	4.7
18	0	6.7	1.1	332	972	26	8.0	3.7	4.3	4.8	4.9	4.4
19	0	3.7	9.3	199	1250	23	8.3	3.8	4.3	4.8	4.9	4.2
20	0	2.5	12	127	934	22	11	3.9	4.3	4.7	4.9	4.6
21	0	2.0	30	97	1140	21	9.5	4.1	4.3	4.7	4.9	4.8
22	0	3.0	22	77	626	21	9.2	4.3	4.2	4.8	4.8	4.8
23	0	11	49	64	382	20	8.2	4.9	4.3	5.0	4.7	4.6
24	0	10	753	56	269	20	7.0	5.1	4.6	5.1	4.7	4.6
25	.24	16	275	50	234	20	5.1	5.3	4.3	5.0	4.7	4.9
26	.46	34	115	45	171	20	5.7	5.1	4.4	4.9	4.9	4.9
27	.07	15	64	42	400	19	5.9	5.3	4.9	5.0	4.8	4.9
28	.02	11	35	39	550	19	5.8	5.3	5.2	4.6	4.8	4.9
29	0	8.2	18	34	317	19	5.9	5.5	5.5	4.5	4.7	4.9
30	0	6.8	66	31	---	18	5.5	5.6	5.9	4.4	4.7	4.9
31	0	---	141	33	---	18	---	5.7	---	4.6	4.8	---
TOTAL	.79	176.17	1633.2	7218.4	9003.6	2268	330.5	166.7	146.6	152.6	143.8	143.9
MEAN	.026	5.87	52.7	233	310	73.2	11.0	5.38	4.89	4.92	4.64	4.80
MAX	.46	34	753	1120	1250	250	22	9.1	6.6	5.8	4.9	5.2
MIN	0	0	1.1	5.7	6.7	18	5.1	3.2	4.1	4.4	4.2	4.2
AC-FT	1.6	349	3240	14320	17860	4500	656	331	291	303	285	285
CAL YR 1979	TOTAL	10910.97	MEAN	29.9	MAX	776	MIN	0	AC-FT	21640		
WTR YR 1980	TOTAL	21384.26	MEAN	58.4	MAX	1250	MIN	0	AC-FT	42420		

## 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 mi<sup>2</sup> (259 km<sup>2</sup>).

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 km<sup>2</sup>).

AVERAGE DISCHARGE.--30 years, 176 ft<sup>3</sup>/s (4.984 m<sup>3</sup>/s), 127,500 acre-ft/yr (157 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft<sup>3</sup>/s (535 m<sup>3</sup>/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, 1975-80.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft<sup>3</sup>/s (113 m<sup>3</sup>/s), and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 13	0645	*11800	334	20.11	6.130
Feb. 19	0930	4740	134	14.06	4.285

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	9.9	89	576	83	473	60	41	15	3.3	.20	.25
2	0	9.8	74	387	78	404	55	38	14	3.2	.20	.25
3	0	109	62	292	95	357	53	38	14	3.3	.20	.25
4	0	127	51	233	91	360	98	36	14	3.3	.20	.25
5	0	131	43	189	80	1420	485	35	14	3.2	.20	.25
6	0	483	38	154	74	1020	397	33	14	3.3	.20	.25
7	0	541	34	130	69	588	241	31	13	3.5	.20	.25
8	0	170	30	113	66	421	176	31	12	3.3	.20	.25
9	0	84	27	121	62	329	170	42	11	2.2	.20	.25
10	0	48	24	257	60	271	136	45	11	2.8	.20	.25
11	0	32	22	1200	58	230	120	35	9.6	2.9	.20	.25
12	0	24	20	5830	56	190	106	34	9.2	2.5	.20	.25
13	.18	20	18	5850	53	175	95	33	8.7	2.2	.20	.25
14	0	17	17	2730	52	339	90	31	9.5	2.4	.20	.25
15	0	15	16	1260	68	294	87	29	9.1	2.3	.20	.25
16	0	1490	15	1760	440	211	80	27	9.0	2.3	.20	.30
17	0	896	14	1110	2360	185	75	26	7.3	1.7	.20	.30
18	.12	307	14	660	3170	174	69	25	6.4	1.7	.20	.30
19	2.9	166	35	460	2610	149	65	24	6.0	1.8	.20	.30
20	2.4	109	188	352	1390	137	82	24	6.0	2.2	.20	.30
21	2.0	75	346	283	1880	127	89	22	6.1	2.1	.20	.30
22	2.0	842	187	234	1130	113	84	21	6.4	1.6	.20	.30
23	24	537	781	195	703	103	72	20	5.8	1.2	.20	.30
24	29	873	2060	171	497	97	65	19	6.1	1.0	.25	.30
25	310	771	1150	155	377	97	58	19	5.6	.82	.25	.30
26	68	607	579	137	301	87	57	18	4.8	.68	.25	.30
27	27	312	351	122	663	78	55	17	5.2	.50	.25	.30
28	17	206	240	112	1490	72	50	17	4.7	.40	.25	.30
29	14	146	181	103	689	72	47	16	4.2	.30	.25	.30
30	12	109	1260	94	---	70	46	16	4.5	.24	.25	.30
31	11	---	1240	87	---	62	---	15	---	.20	.25	---
TOTAL	521.60	9266.7	9206	25357	18745	8705	3363	858	266.2	62.44	6.60	8.25
MEAN	16.8	309	297	818	646	281	112	27.7	8.87	2.01	.21	.28
MAX	310	1490	2060	5850	3170	1420	485	45	15	3.5	.25	.30
MIN	0	9.8	14	87	52	62	46	15	4.2	.20	.20	.25
AC-FT	1030	18380	18260	50300	37180	17270	6670	1700	528	124	13	16
CAL YR 1979	TOTAL	55949.72	MEAN 153	MAX 4450	MIN 0	AC-FT 111000						
WTR YR 1980	TOTAL	76365.79	MEAN 209	MAX 5850	MIN 0	AC-FT 151500						

## 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 mi<sup>2</sup> (238.8 km<sup>2</sup>).

## 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 good. Flow greatly affected by diversion from Bel River through Potter Valley powerhouse (station 11471000). Diversion for irrigation of about 8,000 acres (32.4 km<sup>2</sup>) above station.

AVERAGE DISCHARGE.--39 years, 335 ft<sup>3</sup>/s (9.487 m<sup>3</sup>/s), 242,700 acre-ft/yr (299 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft<sup>3</sup>/s (530 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 20.21 ft (6.160 m) site then in use; minimum daily, 2.0 ft<sup>3</sup>/s (0.057 m<sup>3</sup>/s) July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,300 ft<sup>3</sup>/s (93 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	1215	4970	141	14.23	4.337	Jan. 13	0630	*10900	309	20.06	6.114
Dec. 30	0745	4120	117	13.21	4.026	Feb. 19	0915	5750	163	15.31	4.666

Minimum daily discharge, 44 ft<sup>3</sup>/s (1.246 m<sup>3</sup>/s) Aug. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	303	240	358	680	396	682	363	318	202	123	112	116
2	291	246	359	529	394	645	353	318	207	127	117	129
3	283	294	357	462	415	634	352	344	195	126	119	125
4	273	297	348	425	408	740	399	335	202	125	109	150
5	282	286	346	403	392	1720	646	328	217	131	85	264
6	288	495	342	392	385	1070	601	326	220	134	66	272
7	299	384	341	383	374	755	461	321	211	135	67	273
8	303	274	339	374	370	649	424	302	195	134	72	280
9	303	241	340	370	363	594	422	330	194	132	69	284
10	302	309	338	436	360	560	396	328	191	129	78	266
11	303	305	335	1480	370	532	392	324	205	126	82	281
12	309	304	328	4840	370	505	384	322	199	120	71	273
13	307	301	325	4920	366	493	377	334	196	122	63	284
14	313	300	317	2260	366	594	377	327	198	115	70	278
15	319	302	317	1160	390	530	374	321	196	118	71	303
16	320	1640	314	1650	924	489	369	325	193	124	76	292
17	318	862	314	995	2060	476	363	322	186	121	44	280
18	317	421	313	751	2770	462	357	312	179	123	62	297
19	326	361	344	620	2930	445	355	292	175	118	71	304
20	329	340	493	573	1630	439	360	212	177	117	66	286
21	321	329	604	532	2060	416	366	202	177	117	72	285
22	325	915	452	505	1380	408	363	204	176	115	78	283
23	343	564	1050	485	887	403	356	208	172	122	83	277
24	130	593	2530	472	734	400	356	208	127	124	79	287
25	443	746	1170	462	648	398	356	216	130	117	77	273
26	231	626	646	447	596	374	350	213	121	121	62	259
27	250	437	494	438	989	311	350	211	113	128	75	276
28	237	396	429	418	1500	343	346	213	117	130	118	273
29	224	386	398	408	795	376	345	216	115	127	122	260
30	227	371	1570	408	---	354	337	216	127	117	123	253
31	233	---	1190	400	---	373	---	209	---	107	109	---
TOTAL	9052	13565	17401	28678	25622	17170	11650	8657	5313	3825	2568	7763
MEAN	292	452	561	925	884	554	388	279	177	123	82.8	259
MAX	443	1640	2530	4920	2930	1720	646	344	220	135	123	304
MIN	130	240	313	370	360	311	337	202	113	107	44	116
AC-FT	17950	26910	34510	56880	50820	34060	23110	17170	10540	7590	5090	15400
CAL YR 1979 TOTAL	130409.2			MEAN 357	MAX 2940	MIN	3.3	AC-FT 258700				
WTR YR 1980 TOTAL	151264.0			MEAN 413	MAX 4920	MIN	44	AC-FT 300000				



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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)
OCT							
12...	1040	277	177	6.4	17.0	4.3	9.7
26...	1100	200	213	6.6	14.0	20	9.0
NOV							
09...	1000	246	197	6.5	11.0	9.0	10.5
21...	1045	326	184	6.6	8.0	17	11.6
DEC							
18...	1115	309	162	6.8	7.0	8.8	12.1
JAN							
04...	1115	424	160	6.8	7.0	22	--
25...	0930	461	147	6.6	7.0	72	12.1
FEB							
15...	1015	373	154	6.5	8.0	53	11.1
MAR							
03...	1400	558	177	6.9	11.0	33	--
21...	1120	428	163	6.6	9.0	22	--
APR							
21...	0930	363	185	7.6	10.0	14	11.1
MAY							
09...	1300	330	160	6.6	12.0	8.9	11.3
30...	1100	219	181	6.6	15.0	4.2	10.1
JUN							
12...	0900	198	176	6.4	14.0	4.2	10.5
30...	0955	131	223	6.8	17.0	4.4	10.3
JUL							
11...	1015	130	178	7.4	17.0	3.1	10.0
31...	1130	113	230	8.0	22.0	2.5	9.6
AUG							
15...	1010	76	214	8.0	19.0	3.2	9.4
29...	1030	125	189	8.0	18.0	4.2	9.3
SEP							
12...	1100	275	187	7.3	19.0	5.2	9.2
30...	1010	258	183	7.5	18.0	4.1	9.4

## RUSSIAN RIVER BASIN

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 mi<sup>2</sup> (272 km<sup>2</sup>).

## 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 hm<sup>3</sup>) 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 hm<sup>3</sup>) Jan. 24, 1970, elevation, 760.86 ft (231.910 m); minimum, 12,070 acre-ft (14.9 hm<sup>3</sup>) Nov. 4, 1977, elevation, 687.15 ft (209.443 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 97,700 acre-ft (120 hm<sup>3</sup>) Jan. 14, elevation, 751.80 ft (229.149 m); minimum, 63,000 acre-ft (77.7 hm<sup>3</sup>) Sept. 4-6, elevation, 732.15 ft (223.159 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 1979 TO SEPTEMBER 1980  
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64200	71400	72700	74500	72800	72700	80900	88900	90400	87500	77400	63800
2	64200	71600	72600	73100	72600	73100	81300	88900	90400	87300	77000	63500
3	64300	72000	72400	72500	72600	72600	81700	88900	90400	87000	76500	63200
4	64500	72400	72400	72700	72500	71400	82400	88900	90500	86700	76100	63000
5	64600	72600	72300	72700	72400	72400	83400	88800	90600	86400	75600	63000
6	64700	73300	72300	72700	72400	71300	84300	88800	90600	86200	75200	63000
7	64800	73500	72300	72700	72400	70600	84900	88800	90600	85900	74800	63100
8	65000	73100	72300	72600	72300	71600	85500	88700	90600	85700	74300	63200
9	65100	72900	72300	72600	72300	72600	86100	89000	90500	85300	73800	63300
10	65200	73100	72300	72700	72200	73400	86600	89400	90400	85100	73400	63300
11	65400	73200	72300	75200	71300	73800	87000	89900	90400	84800	72900	63400
12	65600	73400	72400	85200	69600	73900	87500	90400	90300	84500	72500	63500
13	65800	73500	72400	95900	69300	74100	88000	90700	90300	84200	71900	63500
14	66100	73500	72500	97500	69800	74500	88400	90600	90300	83900	71400	63600
15	66300	73500	72600	93300	70400	74700	88800	90500	90200	83600	70900	63700
16	66600	76500	72600	89000	72200	74800	89000	90300	90200	83400	70500	63800
17	66800	77100	72700	83000	76400	74900	89000	90100	90100	83000	70000	64000
18	67300	74400	72800	78300	82200	75000	89000	89800	90100	82700	69500	64200
19	67600	73100	72900	76500	87200	75300	89000	89900	90000	82300	69000	64300
20	67900	72700	73300	75000	87400	75600	89000	89900	89900	81900	68600	64500
21	68200	72500	73600	74200	88800	76000	89000	89900	89800	81600	68100	64600
22	68600	73800	73400	74100	86100	76400	89100	89800	89700	81200	67700	64800
23	69000	74000	74700	74000	80000	76800	89000	89800	89700	80900	67300	64900
24	69100	74200	78800	73900	73800	77300	89000	89900	89500	80600	66800	65000
25	69900	74600	79300	73800	70900	77800	89000	89900	89300	80200	66400	65000
26	70100	74500	77200	73600	69500	78300	89000	90000	89000	79800	65900	65100
27	70400	73900	74800	73400	70900	78700	88900	90100	88800	79400	65500	65100
28	70600	73200	73000	73200	72200	79200	88900	90100	88400	79100	65200	65200
29	70900	72900	72300	72900	72100	79600	88900	90200	88100	78700	64800	65400
30	71000	72800	74900	72800	---	80000	88900	90300	87900	78200	64500	65500
31	71200	---	75700	72800	---	80500	---	90300	---	77800	64200	---
MAX	71200	77100	79300	97500	88800	80500	89100	90700	90600	87500	77400	65500
MIN	64200	71400	72300	72500	69300	70600	80900	88700	87900	77800	64200	63000
(+)	737.02	737.94	739.59	737.92	737.53	742.27	746.98	747.78	746.41	740.78	732.85	733.63
(+)	+7200	+1600	+2900	-2900	-700	+8400	+8400	+1400	-2400	-10100	-13600	+1300

CAL YR 1979 ‡ +6200

WTR YR 1980 ‡ +1500

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)
OCT							
12...	1040	277	177	6.4	17.0	4.3	9.7
26...	1100	200	213	6.6	14.0	20	9.0
NOV							
09...	1000	246	197	6.5	11.0	9.0	10.5
21...	1045	326	184	6.6	8.0	17	11.6
DEC							
18...	1115	309	162	6.8	7.0	8.8	12.1
JAN							
04...	1115	424	160	6.8	7.0	22	--
25...	0930	461	147	6.6	7.0	72	12.1
FEB							
15...	1015	373	154	6.5	8.0	53	11.1
MAR							
03...	1400	558	177	6.9	11.0	33	--
21...	1120	428	163	6.6	9.0	22	--
APR							
21...	0930	363	185	7.6	10.0	14	11.1
MAY							
09...	1300	330	160	6.6	12.0	8.9	11.3
30...	1100	219	181	6.6	15.0	4.2	10.1
JUN							
12...	0900	198	176	6.4	14.0	4.2	10.5
30...	0955	131	223	6.8	17.0	4.4	10.3
JUL							
11...	1015	130	178	7.4	17.0	3.1	10.0
31...	1130	113	230	8.0	22.0	2.5	9.6
AUG							
15...	1010	76	214	8.0	19.0	3.2	9.4
29...	1030	125	189	8.0	18.0	4.2	9.3
SEP							
12...	1100	275	187	7.3	19.0	5.2	9.2
30...	1010	258	183	7.5	18.0	4.1	9.4

## RUSSIAN RIVER BASIN

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 mi<sup>2</sup> (272 km<sup>2</sup>).

## 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 hm<sup>3</sup>) 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 hm<sup>3</sup>) Jan. 24, 1970, elevation, 760.86 ft (231.910 m); minimum, 12,070 acre-ft (14.9 hm<sup>3</sup>) Nov. 4, 1977, elevation, 687.15 ft (209.443 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 97,700 acre-ft (120 hm<sup>3</sup>) Jan. 14, elevation, 751.80 ft (229.149 m); minimum, 63,000 acre-ft (77.7 hm<sup>3</sup>) Sept. 4-6, elevation, 732.15 ft (223.159 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 1979 TO SEPTEMBER 1980  
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64200	71400	72700	74500	72800	72700	80900	88900	90400	87500	77400	63800
2	64200	71600	72600	73100	72600	73100	81300	88900	90400	87300	77000	63500
3	64300	72000	72400	72500	72600	72600	81700	88900	90400	87000	76500	63200
4	64500	72400	72400	72700	72500	71400	82400	88900	90500	86700	76100	63000
5	64600	72600	72300	72700	72400	72400	83400	88800	90600	86400	75600	63000
6	64700	73300	72300	72700	72400	71300	84300	88800	90600	86200	75200	63000
7	64800	73500	72300	72700	72400	70600	84900	88800	90600	85900	74800	63100
8	65000	73100	72300	72600	72300	71600	85500	88700	90600	85700	74300	63200
9	65100	72900	72300	72600	72300	72600	86100	89000	90500	85300	73800	63300
10	65200	73100	72300	72700	72200	73400	86600	89400	90400	85100	73400	63300
11	65400	73200	72300	75200	71300	73800	87000	89900	90400	84800	72900	63400
12	65600	73400	72400	85200	69600	73900	87500	90400	90300	84500	72500	63500
13	65800	73500	72400	95900	69300	74100	88000	90700	90300	84200	71900	63500
14	66100	73500	72500	97500	69800	74500	88400	90600	90300	83900	71400	63600
15	66300	73500	72600	93300	70400	74700	88800	90500	90200	83600	70900	63700
16	66600	76500	72600	89000	72200	74800	89000	90300	90200	83400	70500	63800
17	66800	77100	72700	83000	76400	74900	89000	90100	90100	83000	70000	64000
18	67300	74400	72800	78300	82200	75000	89000	89800	90100	82700	69500	64200
19	67600	73100	72900	76500	87200	75300	89000	89900	90000	82300	69000	64300
20	67900	72700	73300	75000	87400	75600	89000	89900	89900	81900	68600	64500
21	68200	72500	73600	74200	88800	76000	89000	89900	89800	81600	68100	64600
22	68600	73800	73400	74100	86100	76400	89100	89800	89700	81200	67700	64800
23	69000	74000	74700	74000	80000	76800	89000	89800	89700	80900	67300	64900
24	69100	74200	78800	73900	73800	77300	89000	89900	89500	80600	66800	65000
25	69900	74600	79300	73800	70900	77800	89000	89900	89300	80200	66400	65000
26	70100	74500	77200	73600	69500	78300	89000	90000	89000	79800	65900	65100
27	70400	73900	74800	73400	70900	78700	88900	90100	88800	79400	65500	65100
28	70600	73200	73000	73200	72200	79200	88900	90100	88400	79100	65200	65200
29	70900	72900	72300	72900	72100	79600	88900	90200	88100	78700	64800	65400
30	71000	72800	74900	72800	---	80000	88900	90300	87900	78200	64500	65500
31	71200	---	75700	72800	---	80500	---	90300	---	77800	64200	---
MAX	71200	77100	79300	97500	88800	80500	89100	90700	90600	87500	77400	65500
MIN	64200	71400	72300	72500	69300	70600	80900	88700	87900	77800	64200	63000
(†)	737.02	737.94	739.59	737.92	737.53	742.27	746.98	747.78	746.41	740.78	732.85	733.63
(‡)	+7200	+1600	+2900	-2900	-700	+8400	+8400	+1400	-2400	-10100	-13600	+1300

CAL YR 1979 † +6200

WTR YR 1980 † +1500

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

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 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (M) 1/	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC										
07...	1200	23.0	168	7.5	10.7	--	9.2	--	8	K4
07...	1210	14.0	165	7.9	12.2	--	8.8	--	K4	K6
07...	1230	1.0	169	8.0	12.6	--	9.6	--	K4	K2
MAR										
26...	1225	25.0	149	7.6	10.1	745	9.5	86	K6	K5
26...	1230	7.0	146	8.0	11.7	745	12.9	121	<1	<1
26...	1235	1.0	146	8.2	13.2	745	10.2	98	K1	<1
JUN										
17...	1130	1.0	147	8.4	21.8	745	9.5	110	<1	K2
17...	1140	10.0	151	7.8	16.2	745	6.5	66	K2	<1
17...	1150	30.0	147	7.3	11.8	745	4.7	44	K4	<1
SEP										
30...	1310	25.0	181	7.2	19.3	745	.8	9	<1	51
30...	1320	13.0	179	7.4	20.7	745	2.1	24	<1	<1
DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT REMAIN- ING AT DEPTH	LIGHT INCI- DENT PERCENT 1 METER PATH- LENGTH (%)	LIGHT, TRANS- MISSION COEFFI- CIENT (ALPHA/ METER)
DEC										
07...	1130	.10	169	8.0	12.6	--	9.6	--	68	--
07...	1131	1.0	169	8.0	12.6	--	9.6	--	18	23 1.48
07...	1132	1.5	--	--	--	--	--	--	10	--
07...	1133	2.0	169	8.0	12.5	--	9.5	--	5.1	23 1.48
07...	1134	2.5	--	--	--	--	--	--	.9	--
07...	1135	3.0	169	8.0	12.5	--	9.5	--	--	23 1.48
07...	1136	4.0	169	8.0	12.5	--	9.4	--	--	23 1.48
07...	1137	5.0	169	8.0	12.5	--	9.4	--	--	23 1.48
07...	1138	6.0	168	8.0	12.5	--	9.4	--	--	23 1.48
07...	1139	7.0	168	8.0	12.5	--	9.4	--	--	23 1.48
07...	1140	8.0	168	8.0	12.5	--	9.4	--	--	23 1.48
07...	1141	9.0	167	8.0	12.5	--	9.4	--	--	21 1.54
07...	1142	10.0	167	8.0	12.5	--	9.4	--	--	21 1.54
07...	1143	11.0	167	8.0	12.5	--	9.3	--	--	20 1.60
07...	1144	12.0	167	7.9	12.5	--	9.2	--	--	20 1.60
07...	1145	13.0	167	7.9	12.4	--	9.1	--	--	17 1.78
07...	1146	14.0	165	7.9	12.2	--	8.8	--	--	5.3 2.93
07...	1147	15.0	163	7.8	12.1	--	8.8	--	--	3.8 3.28
07...	1148	16.0	162	7.8	11.9	--	8.6	--	--	1.0 4.56
07...	1149	17.0	159	7.7	11.7	--	8.8	--	--	.33 5.71
07...	1150	18.0	162	7.7	11.4	--	9.2	--	--	1.2 4.43
07...	1151	19.0	163	7.7	11.2	--	9.0	--	--	.92 4.68
07...	1152	20.0	163	7.7	11.1	--	9.0	--	--	1.5 4.20
07...	1153	21.0	165	7.7	10.9	--	9.2	--	--	2.6 3.66
07...	1154	22.0	168	7.7	10.8	--	9.2	--	--	4.1 3.19
07...	1155	23.0	168	7.5	10.7	--	9.2	--	--	3.8 3.28
MAR										
26...	1115	.10	145	8.2	13.3	745	9.9	96	7.6	.02 8.65
26...	1116	.50	--	--	--	--	--	--	34	--
26...	1117	1.0	146	8.2	13.2	--	10.2	98	10	.01 9.21
26...	1118	1.5	--	--	--	--	--	--	4.0	--
26...	1119	2.0	147	8.2	12.6	--	11.0	105	1.6	.01 9.21
26...	1120	2.2	--	--	--	--	--	--	1.0	--
26...	1121	3.0	146	8.2	12.5	--	11.5	110	--	.01 9.21
26...	1122	4.0	145	8.1	12.5	--	12.0	114	--	.01 9.21
26...	1123	5.0	145	8.1	12.4	--	12.3	117	--	.01 9.05
26...	1124	6.0	146	8.1	12.2	--	12.7	120	--	.01 9.21

1/ To convert meters to feet, multiply by 3.281.

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

## RUSSIAN RIVER BASIN

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAM- PLING DEPTH (M) 1/	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT TRANS- MISSION 1 METER PATH- LENGTH (%)	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
MAR											
26...	1125	7.0	146	8.0	11.7	--	12.9	121	--	.00	10.41
26...	1126	8.0	148	7.9	11.2	--	12.6	117	--	.00	11.60
26...	1127	9.0	148	7.9	11.0	--	12.7	118	--	.00	11.68
26...	1128	10.0	148	7.9	10.9	--	12.7	118	--	.00	11.98
26...	1129	11.0	149	7.8	10.8	--	12.4	114	--	.00	12.50
26...	1130	12.0	147	7.8	10.8	--	12.0	110	--	.00	12.78
26...	1131	13.0	148	7.8	10.7	--	11.2	102	--	.00	12.98
26...	1132	14.0	148	7.8	10.7	--	11.1	101	--	.00	13.53
26...	1133	15.0	148	7.8	10.6	--	11.1	101	--	.00	13.90
26...	1134	16.0	148	7.7	10.5	--	10.9	99	--	.00	14.03
26...	1135	17.0	149	7.7	10.4	--	10.7	97	--	.00	14.60
26...	1136	18.0	146	7.7	10.4	--	10.4	95	--	.00	15.45
26...	1137	19.0	146	7.7	10.3	--	10.4	95	--	.00	16.30
26...	1138	20.0	148	7.7	10.2	--	10.2	92	--	.00	16.30
26...	1139	21.0	147	7.7	10.2	--	10.3	93	--	.00	16.54
26...	1140	22.0	147	7.6	10.2	--	10.1	91	--	.00	16.54
26...	1141	23.0	147	7.6	10.2	--	9.8	88	--	.00	16.80
26...	1142	24.0	148	7.6	10.2	--	9.6	86	--	.00	17.07
26...	1143	25.0	149	7.6	10.1	--	9.5	86	--	.00	17.07
26...	1144	26.0	150	7.6	10.1	--	9.4	85	--	.00	17.07
26...	1145	27.0	150	7.6	10.1	--	9.3	84	--	.00	17.07
26...	1146	28.0	150	7.6	10.1	--	9.2	83	--	.00	17.37
26...	1147	29.0	--	--	--	--	--	--	--	.00	17.37
26...	1148	30.0	--	--	--	--	--	--	--	.00	17.37
26...	1149	31.0	--	--	--	--	--	--	--	.00	20.46
JUN											
17...	1000	.10	147	8.6	22.4	745	8.8	104	55	20	1.60
17...	1002	.50	--	--	--	--	--	--	45	--	--
17...	1004	1.0	147	8.4	21.9	--	9.5	110	33	4.5	3.11
17...	1006	1.5	--	--	--	--	--	--	26	--	--
17...	1008	2.0	147	8.4	21.6	--	9.3	107	18	4.1	3.19
17...	1010	2.5	--	--	--	--	--	--	13	--	--
17...	1012	3.0	146	8.4	21.3	--	9.8	113	9.0	4.5	3.10
17...	1014	3.5	--	--	--	--	--	--	8.0	--	--
17...	1016	4.0	147	8.5	20.7	--	10.0	112	6.0	4.5	3.10
17...	1018	4.5	--	--	--	--	--	--	5.0	--	--
17...	1020	5.0	148	8.5	20.2	--	10.1	112	4.0	5.3	2.94
JUN											
17...	1022	6.0	148	8.4	19.5	--	8.8	97	--	6.2	2.77
17...	1024	7.0	149	8.1	18.5	--	8.2	88	--	7.3	2.62
17...	1026	8.0	151	7.9	17.8	--	7.5	80	--	9.8	2.32
17...	1028	9.0	150	7.8	17.1	--	7.0	73	--	11	2.18
17...	1030	10.0	151	7.8	16.2	--	6.5	66	--	12	2.11
17...	1032	11.0	152	7.7	15.7	--	6.3	64	--	13	2.04
17...	1034	12.0	150	7.7	14.7	--	6.0	59	--	14	1.98
17...	1036	13.0	149	7.6	14.1	--	5.8	57	--	14	1.98
17...	1038	14.0	150	7.6	13.6	--	5.8	56	--	14	1.98
17...	1040	15.0	148	7.5	13.3	--	5.9	57	--	14	1.98
17...	1042	16.0	146	7.5	13.2	--	5.9	57	--	11	2.18
17...	1044	17.0	145	7.5	13.1	--	5.8	56	--	11	2.25
17...	1046	18.0	146	7.5	12.9	--	6.0	58	--	9.2	2.39
17...	1048	19.0	144	7.5	12.7	--	6.1	58	--	8.5	2.46
17...	1050	20.0	144	7.5	12.6	--	6.2	59	--	7.3	2.62
17...	1052	21.0	145	7.4	12.5	--	6.1	58	--	5.8	2.85
17...	1054	22.0	143	7.4	12.5	--	6.2	59	--	4.5	3.11
17...	1056	23.0	144	7.4	12.4	--	6.1	58	--	2.8	3.57
17...	1058	24.0	144	7.4	12.4	--	6.1	58	--	2.3	3.77
17...	1100	25.0	144	7.4	12.2	--	5.7	54	--	1.9	3.98
17...	1102	26.0	146	7.4	12.1	--	5.4	51	--	1.0	4.56
17...	1104	27.0	146	7.4	12.0	--	5.3	50	--	.61	5.09
17...	1106	28.0	146	7.3	12.0	--	5.0	47	--	.39	5.55
17...	1108	29.0	147	7.3	11.9	--	4.9	46	--	.19	6.24
17...	1110	30.0	147	7.3	11.8	--	4.7	44	--	.10	6.86
17...	1112	31.0	147	7.3	11.8	--	4.4	42	--	.04	7.86
17...	1114	32.0	149	7.3	11.8	--	4.2	40	--	.02	8.48
17...	1116	32.5	--	--	--	--	--	--	--	.00	10.10
SEP											
30...	1039	.10	--	--	--	745	--	--	66	--	--
30...	1040	.50	177	8.2	22.2	--	8.8	102	51	11	2.18
30...	1045	1.0	177	8.2	21.9	--	8.6	100	40	9.8	2.32
30...	1046	1.5	--	--	--	--	--	--	32	--	--
30...	1050	2.0	176	8.2	21.7	--	8.3	95	21	8.5	2.46
30...	1051	2.5	--	--	--	--	--	--	14	--	--
30...	1052	3.0	175	8.2	21.5	--	8.1	93	8.7	7.9	2.54
30...	1053	3.5	--	--	--	--	--	--	6.8	--	--

1/ To convert meters to feet, multiply by 3.281.

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SAMPLING DEPTH (M) <u>1/</u>	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION)	LIGHT INCID- ENT PERCENT REMAIN- ING AT DEPTH	LIGHT TRANSMISSION 1 METER PATH- LENGTH (%)	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
SEP											
30...	1055	4.0	175	8.2	21.5	--	8.2	94	5.4	9.8	2.32
30...	1056	4.5	--	--	--	--	--	--	3.9	--	--
30...	1057	5.0	174	8.2	21.5	--	8.1	93	2.9	11	2.18
30...	1058	5.5	--	--	--	--	--	--	2.2	--	--
30...	1100	6.0	175	8.1	21.4	--	7.5	86	1.8	15	1.91
30...	1101	6.5	--	--	--	--	--	--	1.3	--	--
30...	1102	6.9	--	--	--	--	--	--	1.0	--	--
30...	1104	7.0	175	8.0	21.4	--	7.4	85	--	14	1.98
30...	1107	8.0	176	7.9	21.3	--	6.6	76	--	14	1.98
30...	1110	9.0	176	7.9	21.3	--	6.6	76	--	15	1.91
30...	1112	10.0	176	7.8	21.3	--	5.9	68	--	15	1.91
30...	1115	11.0	176	7.7	21.2	--	5.1	58	--	16	1.85
30...	1116	12.0	177	7.5	21.1	--	3.1	35	--	17	1.79
30...	1118	13.0	179	7.4	20.7	--	2.1	24	--	17	1.79
30...	1121	14.0	179	7.4	20.6	--	2.1	24	--	17	1.79
30...	1123	15.0	182	7.4	20.5	--	3.4	38	--	18	1.72
30...	1127	16.0	181	7.3	20.5	--	2.0	22	--	19	1.66
30...	1130	17.0	180	7.3	20.4	--	1.6	18	--	18	1.72
30...	1132	18.0	179	7.3	20.3	--	1.9	21	--	18	1.72
30...	1134	19.0	180	7.3	20.1	--	2.3	26	--	15	1.91
30...	1136	20.0	180	7.3	20.1	--	2.8	31	--	15	1.91
30...	1138	21.0	182	7.3	19.9	--	2.3	26	--	9.8	2.32
30...	1140	22.0	180	7.2	19.8	--	1.4	16	--	8.5	2.46
30...	1142	23.0	180	7.2	19.6	--	1.6	18	--	7.3	2.62
30...	1144	24.0	181	7.2	19.5	--	1.6	18	--	3.4	3.38
30...	1145	25.0	181	7.2	19.3	--	.8	9	--	2.1	3.87
30...	1147	26.0	181	7.2	19.1	--	.6	7	--	3.1	3.47
30...	1149	27.0	183	7.2	18.8	--	.2	2	--	4.1	3.19
30...	1150	28.0	184	7.1	18.7	--	.0	0	--	11	2.18
30...	1152	29.0	188	7.0	18.3	--	.0	0	--	--	--

1/ To convert meters to feet, multiply by 3.281.

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.

WATER-DISCHARGE RECORDS

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.

AVERAGE DISCHARGE (unadjusted), 1912-7 years (water years 1912-13, 1952-55, 1958), 356 ft<sup>3</sup>/s (10.08 m<sup>3</sup>/s), 257,900 acre-ft/yr (318 hm<sup>3</sup>/yr); 21 years (water years 1960-80), 345 ft<sup>3</sup>/s (9.770 m<sup>3</sup>/s), 250,000 acre-ft/yr (308 hm<sup>3</sup>/yr).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,740 ft<sup>3</sup>/s (134 m<sup>3</sup>/s) Jan. 15, gage height, 7.67 ft (2.338 m); minimum daily, 51 ft<sup>3</sup>/s (1.44 m<sup>3</sup>/s) Jan. 12.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	163	373	1510	359	394	163	336	208	248	309	278
2	251	163	373	1500	359	397	163	336	208	248	310	278
3	241	164	373	871	359	973	163	336	208	247	310	259
4	230	163	333	428	359	1680	166	336	208	245	290	246
5	229	199	310	427	359	1470	166	340	208	245	277	245
6	229	238	310	428	341	1930	166	340	225	248	279	244
7	229	405	292	428	323	1380	166	340	235	246	281	245
8	229	514	281	428	323	150	166	340	235	245	281	245
9	229	357	281	427	323	152	167	209	235	245	281	243
10	222	248	281	448	323	152	168	130	235	245	280	242
11	219	248	281	448	901	305	168	130	233	245	283	242
12	211	248	261	51	1330	402	168	131	233	245	289	242
13	205	285	251	53	583	402	168	210	233	245	286	242
14	205	328	251	1800	84	402	168	354	234	245	285	242
15	205	381	251	3740	96	403	168	396	232	245	285	232
16	196	297	251	4490	120	404	293	465	232	244	285	226
17	191	660	251	4510	122	405	363	462	232	262	289	225
18	191	2020	251	3590	125	356	363	460	231	273	287	226
19	185	1140	290	1780	637	275	363	286	229	273	285	223
20	177	559	313	1470	2080	255	363	200	219	273	285	223
21	177	415	439	1100	1700	226	363	241	214	272	285	222
22	177	319	517	470	3120	208	363	216	212	272	288	222
23	178	465	520	470	4200	208	363	203	211	272	289	223
24	169	564	531	470	4060	175	363	204	211	270	289	222
25	107	564	1100	470	2360	155	363	205	218	281	289	221
26	110	682	1960	470	1550	158	363	206	240	289	286	228
27	145	760	1950	469	390	158	363	205	250	289	287	231
28	145	750	1660	468	1020	158	363	205	250	294	288	229
29	155	539	892	466	999	159	346	208	250	305	285	229
30	163	371	429	403	---	160	336	208	246	305	285	229
31	163	---	975	359	---	160	---	207	---	305	281	---
TOTAL	6011	14209	16831	34442	28905	14212	7825	8445	6815	8166	8909	7104
MEAN	194	474	543	1111	997	458	261	272	227	263	287	237
MAX	251	2020	1960	4510	4200	1930	363	465	250	305	310	278
MIN	107	163	251	51	84	150	163	130	208	244	277	221
AC-FT	11920	28180	33380	68320	57330	28190	15520	16750	13520	16200	17670	14090
CAL YR 1979	TOTAL	136254	MEAN 373	MAX 373	2310	MIN 32	AC-FT 270300					
WTR YR												



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.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 20.5°C Oct. 1-9; minimum recorded, 8.5°C Dec. 30, 31, Feb. 5-7.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)
OCT							
12...	1115	163	180	6.6	20.0	3.7	8.8
26...	1130	105	190	6.8	18.0	4.5	8.2
NOV							
09...	1045	205	177	6.8	15.0	14	9.6
21...	1130	318	165	6.4	13.0	19	10.4
DEC							
18...	1145	251	189	6.4	10.0	7.1	11.1
JAN							
04...	1145	378	152	6.4	9.0	33	--
25...	1010	470	144	6.5	9.0	80	11.8
FEB							
15...	1045	86	155	6.6	8.0	46	10.9
MAR							
03...	1445	1470	144	6.4	10.0	63	--
21...	1300	171	147	6.7	10.0	34	--
APR							
21...	0945	323	144	7.9	10.0	20	10.9
MAY							
09...	1400	100	157	6.7	11.0	13	10.8
30...	1130	177	154	6.5	12.0	15	10.4
JUN							
12...	0945	211	173	6.5	12.0	9.0	11.4
30...	1030	226	189	6.9	12.0	8.0	10.8
JUL							
11...	1050	245	156	7.4	13.0	6.8	10.2
31...	1400	306	125	7.6	14.0	4.5	10.4
AUG							
15...	1100	273	166	7.5	15.0	4.3	9.8
29...	1100	261	167	7.4	16.0	2.6	9.5
SEP							
12...	1130	217	181	7.4	18.0	1.9	9.1
30...	1100	196	184	7.7	19.0	2.8	--



## 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 mi<sup>2</sup> (938 km<sup>2</sup>).

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, except those for period of no gage-height record, May 5-19, which are fair. Diversions for irrigation of about 11,800 acres (47.8 km<sup>2</sup>) 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.--41 years, 716 ft<sup>3</sup>/s (20.28 m<sup>3</sup>/s), 518,700 acre-ft/yr (640 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft<sup>3</sup>/s (1,270 m<sup>3</sup>/s) Dec. 22, 1955, gage height, 27.00 ft (8.230 m); minimum daily, 9.1 ft<sup>3</sup>/s (0.26 m<sup>3</sup>/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, 23,500 ft<sup>3</sup>/s (666 m<sup>3</sup>/s) Jan. 13, gage height, 19.90 ft (6.066 m); minimum daily, 153 ft<sup>3</sup>/s (4.33 m<sup>3</sup>/s) Oct. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	157	630	2580	717	1610	334	420	198	228	265	234
2	207	159	599	2110	700	1430	320	413	202	227	265	234
3	205	201	573	1630	706	1550	312	410	198	220	265	229
4	198	331	529	1060	706	2040	359	410	201	220	260	213
5	196	269	477	936	675	3570	831	405	207	223	244	211
6	196	689	462	846	648	3170	714	400	209	220	242	211
7	196	1520	444	785	611	2510	578	400	225	220	242	208
8	196	852	421	743	598	1210	491	395	226	216	239	204
9	214	587	411	735	584	1010	465	290	226	220	237	205
10	201	362	403	903	576	889	433	210	225	223	237	207
11	192	326	398	1700	855	866	408	195	223	222	238	208
12	188	306	384	14200	1360	898	381	185	223	223	241	208
13	178	307	359	15500	999	861	363	240	222	226	242	205
14	176	339	345	8720	334	983	357	415	217	225	239	205
15	176	374	341	6710	330	973	356	450	217	221	240	209
16	174	2540	341	7860	1050	859	394	480	218	221	239	198
17	168	2290	341	6680	5100	819	479	490	211	225	241	197
18	165	2210	341	5360	7930	783	481	470	205	238	242	197
19	174	1600	377	3240	6930	690	480	290	203	242	245	195
20	160	864	508	2530	5210	630	508	211	200	242	245	195
21	157	712	1030	2150	6390	590	524	249	192	241	245	195
22	157	1230	911	1480	5330	536	507	230	192	241	244	195
23	164	1580	1480	1310	5490	513	493	211	192	239	242	197
24	192	1680	5090	1200	4890	478	485	211	187	234	241	197
25	471	1580	3030	1120	3310	444	474	211	188	238	239	197
26	201	1890	2800	1050	2390	425	471	211	200	245	239	199
27	177	1360	2360	983	1870	401	465	211	222	247	237	205
28	159	1180	2000	937	3470	381	458	211	225	257	237	208
29	153	959	1440	897	2500	369	442	207	227	265	235	214
30	157	676	3020	826	---	358	427	202	228	265	231	214
31	157	---	3240	744	---	346	---	199	---	265	232	---
TOTAL	5912	29130	35085	97525	72259	32192	13790	9532	6309	7240	7530	6194
MEAN	191	971	1132	3146	2492	1038	460	307	210	234	243	206
MAX	471	2540	5090	15500	7930	3570	831	490	228	265	265	234
MIN	153	157	341	735	330	346	312	185	187	216	231	195
AC-FT	11730	57780	69590	193400	143300	63850	27350	18910	12510	14360	14940	12290
CAL YR 1979	TOTAL	241366	MEAN 661	MAX 8820	MIN 54	AC-FT 478700						
WTR YR 1980	TOTAL	322698	MEAN 882	MAX 15500	MIN 153	AC-FT 640100						

## RUSSIAN RIVER BASIN

11463000 RUSSIAN RIVER NEAR CLOVERDALE, CA

LOCATION.--Lat 38°52'46", long 123°03'09", in NW¼NW¼ sec.23, T.12 N., R.11 W., Mendocino County, Hydrologic Unit 18010110, on left bank 0.3 mi (0.5 km) downstream from Cumisky Creek, and 5.5 mi (8.8 km) northwest of Cloverdale.

DRAINAGE AREA.--503 mi<sup>2</sup> (1,303 km<sup>2</sup>).

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 km<sup>2</sup>) 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.--29 years, 976 ft<sup>3</sup>/s (27.64 m<sup>3</sup>/s), 707,100 acre-ft/yr (872 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft<sup>3</sup>/s (1,560 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 31.60 ft (9.632 m) site and datum then in use; minimum daily, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) Apr. 22, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,800 ft<sup>3</sup>/s (816 m<sup>3</sup>/s) Jan. 13, gage height, 20.13 ft (6.136 m); minimum daily, 169 ft<sup>3</sup>/s (4.79 m<sup>3</sup>/s) Oct. 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	184	737	3930	1030	2660	436	533	230	223	247	232
2	207	189	682	3000	989	2330	407	517	227	229	258	237
3	211	266	638	2360	985	2340	398	511	218	215	267	220
4	200	382	599	1520	984	3040	479	501	226	211	271	202
5	194	316	540	1310	925	5670	1600	484	232	223	249	196
6	193	864	522	1160	896	4980	1200	480	219	223	240	197
7	196	2570	503	1060	845	4200	990	476	245	218	243	197
8	198	1220	469	989	828	2280	792	473	258	227	229	198
9	199	815	454	969	819	1820	723	463	254	231	222	200
10	224	518	442	1110	801	1560	666	332	246	236	232	203
11	195	438	433	2510	919	1410	604	269	239	242	250	203
12	194	398	422	18300	1510	1430	553	259	241	239	255	199
13	183	377	395	21100	1380	1340	530	258	239	227	247	200
14	189	402	385	13300	609	1440	521	369	242	241	239	206
15	191	424	379	8860	609	1560	475	437	243	223	234	210
16	185	3080	374	10300	2260	1300	466	505	254	215	241	189
17	174	3910	369	8330	9940	1210	603	516	243	207	249	185
18	171	2600	364	6860	15500	1140	615	510	231	230	260	189
19	185	2080	389	4460	13500	1010	611	495	224	237	261	193
20	176	1050	537	3540	8200	898	658	285	213	231	262	194
21	169	861	1130	3090	10300	846	730	297	193	229	249	193
22	169	1090	1100	2130	8110	743	680	288	198	228	236	194
23	207	2320	2140	1840	7340	695	641	261	201	224	231	190
24	275	1880	9860	1670	6280	648	622	248	184	222	235	188
25	1300	1900	5090	1550	4740	604	600	253	191	216	243	189
26	371	2440	3720	1460	3550	566	598	254	196	225	242	188
27	242	1660	2940	1370	2900	539	594	238	209	232	236	192
28	204	1380	2480	1300	5230	508	572	232	211	244	237	201
29	184	1190	1900	1260	4020	485	557	228	221	258	228	213
30	185	825	5170	1190	---	462	534	222	225	257	228	216
31	187	---	5580	1080	---	444	---	218	---	252	232	---
TOTAL	7370	37629	50743	132908	115999	50158	19455	11412	6753	7115	7553	6014
MEAN	238	1254	1637	4287	4000	1618	649	368	225	230	244	200
MAX	1300	3910	9860	21100	15500	5670	1600	533	258	258	271	237
MIN	169	184	364	969	609	444	398	218	184	207	222	185
AC-FT	14620	74640	100600	263600	230100	99490	38590	22640	13390	14110	14980	11930
CAL YR 1979	TOTAL	315836	MEAN	865	MAX	9860	MIN	76	AC-FT	626500		
WTR YR 1980	TOTAL	453109	MEAN	1238	MAX	21100	MIN	169	AC-FT	898700		

## 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 mi<sup>2</sup> (112.4 km<sup>2</sup>).

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, Jan. 24 to Feb. 26, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--19 years (water years 1962-80), 83.3 ft<sup>3</sup>/s (2.359 m<sup>3</sup>/s), 60,350 acre-ft/yr (74.4 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,360 ft<sup>3</sup>/s (208 m<sup>3</sup>/s), revised, 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 ft<sup>3</sup>/s (57 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Dec. 24	0300	3020	85.5	10.91	3.325	Feb. 17	1700	*4760	135	13.39	4.081
Jan. 13	1600	4590	130	13.16	4.011						

Minimum daily discharge, 0.33 ft<sup>3</sup>/s (0.009 m<sup>3</sup>/s) Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.38	3.6	24	318	59	255	34	18	8.7	3.5	1.3	.62
2	.38	3.9	22	188	56	237	32	17	8.2	3.5	.87	.66
3	1.7	97	20	136	57	221	30	17	8.0	3.3	.79	.77
4	.37	51	18	109	56	204	47	16	9.7	3.2	.77	.95
5	.35	20	17	92	58	545	142	15	9.3	2.9	.75	.97
6	.33	14	15	79	55	406	72	14	8.7	2.8	.78	.96
7	.39	50	14	68	51	291	53	13	8.3	2.2	.93	.97
8	.38	21	13	60	49	228	44	14	7.6	2.2	.88	.96
9	.69	14	12	62	49	191	47	19	7.3	2.3	.83	.95
10	.54	11	12	65	48	163	41	19	6.9	2.3	1.1	.97
11	.46	9.2	11	496	48	141	36	16	6.6	2.1	1.0	.97
12	.45	8.1	11	1780	47	124	33	15	5.0	2.0	.74	1.0
13	.71	7.4	10	2150	47	114	31	15	6.4	1.9	.72	1.0
14	.95	6.8	9.7	1080	48	122	30	15	6.3	2.0	.67	.97
15	1.1	6.3	9.5	664	77	112	29	14	6.2	2.0	.69	.93
16	.95	330	9.2	914	406	98	28	13	6.1	2.1	.69	.97
17	.83	188	8.8	645	1670	90	26	12	6.2	2.2	.71	1.2
18	.85	60	8.7	424	1290	84	25	12	5.9	2.3	1.2	1.3
19	2.6	36	50	297	1530	77	24	11	5.1	2.0	1.5	1.8
20	3.7	26	198	230	854	72	48	11	4.6	1.9	1.4	.93
21	3.0	21	231	187	966	67	38	10	4.4	1.9	1.3	.82
22	2.3	93	90	154	825	62	32	8.8	4.4	1.8	1.1	.80
23	7.2	80	730	130	534	58	29	8.6	4.6	1.8	1.1	.73
24	4.8	61	1680	118	372	53	26	8.7	4.6	2.0	.79	.65
25	347	65	699	105	295	56	25	8.9	5.0	2.1	.77	.71
26	27	77	300	97	226	50	24	8.7	4.3	1.7	.77	.61
27	9.6	49	168	88	433	45	22	8.9	4.5	1.1	.73	.68
28	6.3	38	118	81	500	41	21	9.9	4.0	1.0	.72	.84
29	4.8	31	94	74	317	38	21	9.7	3.9	.87	.73	.76
30	4.1	27	382	68	---	37	19	9.3	3.8	.86	.72	.66
31	3.8	---	708	62	---	35	---	8.9	---	1.2	.67	---
TOTAL	438.01	1505.3	5692.9	11021	11023	4317	1109	396.4	184.6	65.03	27.72	27.11
MEAN	14.1	50.2	184	356	380	139	37.0	12.8	6.15	2.10	.89	.90
MAX	347	330	1680	2150	1670	545	142	19	9.7	3.5	1.5	1.8
MIN	.33	3.6	8.7	60	47	35	19	8.6	3.8	.86	.67	.61
AC-FT	869	2990	11290	21860	21860	8560	2200	786	366	129	55	54
CAL YR 1979 TOTAL	26777.98			MEAN 73.4	MAX 1680	MIN 0	AC-FT 53110					
WTR YR 1980 TOTAL	35807.07			MEAN 97.8	MAX 2150	MIN .33	AC-FT 71020					

## RUSSIAN RIVER BASIN

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA

LOCATION.--Lat 38°36'48", long 122°50'07", in Sotoyome Grant, Sonoma County, Hydrologic Unit 18010110, on left bank 2 mi (3 km) east of Healdsburg, and 3.5 mi (5.6 km) upstream from Dry Creek.

DRAINAGE AREA.--793 mi<sup>2</sup> (2,054 km<sup>2</sup>).

## 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 except those for periods of no gage-height record, May 1-21 and Sept. 2-30, which are fair. Several diversions for irrigation of about 17,800 acres (72.0 km<sup>2</sup>) 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.--41 years, 1,429 ft<sup>3</sup>/s (40.47 m<sup>3</sup>/s), 1,035,000 acre-ft/yr (1.28 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,300 ft<sup>3</sup>/s (2,020 m<sup>3</sup>/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 ft<sup>3</sup>/s (0.48 m<sup>3</sup>/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, 39,400 ft<sup>3</sup>/s (1,120 m<sup>3</sup>/s) Jan. 13, gage height, 18.64 ft (5.681 m); minimum daily, 171 ft<sup>3</sup>/s (4.84 m<sup>3</sup>/s) June 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	239	1020	6970	1280	4820	649	682	280	212	226	212
2	187	233	937	4680	1230	3980	624	660	277	211	218	212
3	185	375	869	3630	1200	3640	598	640	272	208	227	211
4	185	532	807	2520	1200	3830	631	620	276	200	231	205
5	178	444	737	2010	1150	8250	1800	605	286	200	239	192
6	177	474	682	1720	1110	7750	1570	595	283	210	231	186
7	175	2570	652	1530	1060	6230	1290	580	271	213	225	185
8	177	1860	620	1380	1020	4140	1030	570	285	210	225	184
9	182	1070	574	1310	996	3020	944	555	292	203	218	192
10	184	750	549	1320	973	2510	898	540	251	201	209	200
11	190	560	529	2410	955	2170	838	480	263	205	209	201
12	180	492	512	24300	1250	2010	794	410	259	206	207	202
13	181	454	491	28700	1460	1850	758	405	255	214	207	199
14	182	435	468	26400	1080	1790	735	475	250	214	209	201
15	185	441	454	15300	888	2050	715	520	246	220	210	206
16	182	1640	444	15400	2270	1720	695	540	251	212	212	196
17	178	6870	433	13300	15000	1560	719	560	245	206	215	194
18	172	2920	426	10600	27400	1480	758	565	234	198	220	195
19	180	2580	574	7500	27600	1350	753	520	214	209	225	196
20	190	1610	835	5260	15200	1220	778	430	205	220	224	194
21	185	1190	1810	4360	17900	1140	905	374	206	223	224	195
22	180	1230	1480	3380	14900	1060	838	358	201	224	221	194
23	199	2850	3250	2680	12100	981	806	354	199	218	219	191
24	240	1920	18800	2360	9940	930	777	337	197	197	219	189
25	2550	2300	12200	2150	8540	881	762	322	185	189	219	188
26	1070	2620	6710	1940	5800	843	747	316	178	181	219	188
27	469	2110	4680	1790	5050	793	737	309	171	180	217	193
28	360	1710	3700	1670	9290	753	728	300	183	187	213	201
29	301	1470	2940	1570	6860	722	718	297	195	198	213	203
30	265	1200	7140	1480	---	695	700	290	203	210	206	202
31	250	---	9560	1370	---	673	---	282	---	223	209	---
TOTAL	9707	45149	84883	200990	194702	74841	25295	14491	7113	6402	6766	5907
MEAN	313	1505	2738	6484	6714	2414	843	467	237	207	218	197
MAX	2550	6870	18800	28700	27600	8250	1800	682	292	224	239	212
MIN	172	233	426	1310	888	673	598	282	171	180	206	184
AC-FT	19250	89550	168400	398700	386200	148400	50170	28740	14110	12700	13420	11720
CAL YR 1979 TOTAL	452532			1240	18800	102	AC-FT	897600				
WTR YR 1980 TOTAL	676246			1848	28700	171	AC-FT	1341000				







## 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 mi<sup>2</sup> (145.0 km<sup>2</sup>).

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, except those for period of no gage-height record, June 23 to Sept. 30, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--7 years, 120 ft<sup>3</sup>/s (3.398 m<sup>3</sup>/s), 86,940 acre-ft/yr (107 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,400 ft<sup>3</sup>/s (436 m<sup>3</sup>/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 ft<sup>3</sup>/s (85 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 24	1130	4150 118	8.33 2.539	Jan. 12	0730	6040 171	9.36 2.853
Dec. 30	0745	3140 88.9	7.77 2.368	Feb. 17	1830	*7220 204	9.97 3.039

Minimum daily discharge, 0.27 ft<sup>3</sup>/s (0.008 m<sup>3</sup>/s) Oct. 11-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	9.1	62	507	70	391	43	26	12	4.9	1.6	.85
2	.35	23	57	342	67	357	41	25	11	4.8	1.6	.82
3	.35	88	48	265	67	339	40	24	9.5	4.6	1.5	.82
4	.35	59	44	209	65	357	73	22	13	4.5	1.5	.80
5	.35	63	39	168	60	702	273	22	13	4.3	1.4	.80
6	.35	321	36	136	57	535	131	22	12	4.1	1.4	.80
7	.35	458	33	115	53	419	92	21	11	3.9	1.3	.80
8	.30	161	30	100	51	347	76	20	11	3.8	1.3	.78
9	.35	83	28	98	49	288	74	25	10	3.8	1.3	.78
10	.33	61	27	106	45	239	65	23	10	3.7	1.2	.76
11	.27	47	25	728	43	202	59	21	9.4	3.6	1.2	.76
12	.27	37	23	3590	42	173	53	20	9.1	3.3	1.2	.75
13	.27	31	22	3820	42	160	49	22	8.8	3.2	1.1	.74
14	.29	26	22	2260	42	171	49	19	8.7	3.0	1.1	.73
15	.30	24	20	1180	70	146	47	18	8.1	2.9	1.1	.72
16	.30	537	19	1170	668	123	43	17	7.5	2.8	1.1	.70
17	.30	428	18	792	2920	115	41	17	7.4	2.7	1.1	.78
18	.28	159	18	537	3430	107	40	16	6.9	2.6	1.0	.90
19	3.7	93	23	401	2870	97	38	16	6.8	2.5	1.0	.87
20	5.2	69	92	305	1420	89	50	15	6.5	2.4	1.0	.84
21	8.4	56	133	251	1570	83	48	14	6.3	2.3	1.0	.76
22	17	273	76	207	1350	77	41	13	6.3	2.2	1.0	.72
23	65	251	503	174	754	70	37	13	6.2	2.2	.98	.70
24	99	179	1940	161	529	66	34	13	6.2	2.1	.96	.68
25	468	192	919	147	468	66	33	13	6.1	2.0	.94	.66
26	61	217	531	128	364	61	33	13	5.9	2.0	.92	.68
27	29	139	394	114	528	57	31	13	5.6	1.9	.92	.70
28	19	105	309	102	571	53	30	13	5.4	1.8	.90	.68
29	14	85	262	93	473	51	28	13	5.2	1.7	.90	.66
30	11	72	1130	84	---	47	27	13	5.0	1.7	.90	.66
31	10	---	948	78	---	45	---	12	---	1.7	.88	---
TOTAL	816.01	4346.1	7831	18368	18738	6033	1719	554	249.9	93.0	35.30	22.70
MEAN	26.3	145	253	593	646	195	57.3	17.9	8.33	3.00	1.14	.76
MAX	468	537	1940	3820	3430	702	273	26	13	4.9	1.6	.90
MIN	.27	9.1	18	78	42	45	27	12	5.0	1.7	.88	.66
AC-FT	1620	8620	15530	36430	37170	11970	3410	1100	496	184	70	45

CAL YR 1979	TOTAL	39968.63	MEAN	110	MAX	1940	MIN	.16	AC-FT	19280
WTR YR 1980	TOTAL	58806.01	MEAN	161	MAX	3820	MIN	.27	AC-FT	116600

## RUSSIAN RIVER BASIN

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 mi<sup>2</sup> (227.4 km<sup>2</sup>).

PERIOD OF RECORD.--October 1941 to September 1980 (discontinued). 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.--39 years, 161 ft<sup>3</sup>/s (4.560 m<sup>3</sup>/s), 116,600 acre-ft/yr (144 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,100 ft<sup>3</sup>/s (513 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 18.09 ft (5.514 m); minimum daily, 0.08 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/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.--Peak discharges above base of 3,300 ft<sup>3</sup>/s (93 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	(m <sup>3</sup> /s)	Gage height (ft)	(m)	Date	Time	Discharge (ft <sup>3</sup> /s)	(m <sup>3</sup> /s)	Gage height (ft)	(m)
Dec. 24	1530	5410	153	9.10	2.774	Jan. 13	1500	7330	208	10.72	3.267
Dec. 30	1345	3400	96.3	7.13	2.173	Feb. 17	1830	*9050	256	12.03	3.667

Minimum daily discharge, 0.54 ft<sup>3</sup>/s (0.015 m<sup>3</sup>/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	6.9	78	903	106	564	66	35	16	5.9	2.0	1.0
2	.56	23	68	558	100	525	62	34	14	6.1	1.9	1.0
3	.60	110	60	390	104	470	60	33	13	5.9	1.8	.99
4	.60	73	52	306	95	482	100	31	22	5.5	1.8	1.0
5	.60	70	47	249	89	1100	370	30	19	5.3	1.7	.97
6	.60	361	43	207	83	819	240	28	15	5.0	1.7	.98
7	.60	673	40	174	77	623	130	27	14	4.8	1.6	.98
8	.69	225	36	151	74	494	110	26	13	4.8	1.6	.94
9	1.3	128	33	151	70	405	100	44	12	4.8	1.5	.97
10	.95	90	32	157	67	342	92	37	11	4.8	1.5	.95
11	.87	69	30	984	64	291	87	33	11	4.4	1.5	.97
12	.84	55	28	4760	62	249	82	34	11	4.1	1.4	.94
13	.84	47	27	5100	59	225	78	39	11	3.9	1.4	.91
14	1.7	41	25	3150	59	240	74	33	10	3.8	1.4	.89
15	2.1	36	24	1910	111	205	68	30	9.8	3.6	1.4	.90
16	1.6	642	23	1800	1040	173	63	27	9.3	3.5	1.3	.88
17	1.2	721	22	1250	3810	159	59	25	8.9	3.4	1.3	.94
18	1.3	230	21	903	4660	147	56	24	8.6	3.3	1.3	1.1
19	5.2	141	29	662	4300	134	54	23	8.3	3.1	1.3	1.1
20	4.9	101	76	501	2340	124	69	22	8.1	3.0	1.3	.99
21	5.7	78	195	408	2440	117	69	20	7.9	2.9	1.2	.92
22	7.1	294	102	337	2240	109	58	19	7.8	2.8	1.3	.88
23	89	412	439	285	1450	101	52	18	7.7	2.7	1.2	.86
24	38	231	2720	247	1000	95	49	18	7.7	2.6	1.2	.85
25	739	195	1680	220	835	99	46	18	7.7	2.5	1.1	.84
26	68	293	799	192	640	90	45	18	7.4	2.4	1.2	.84
27	35	178	470	170	830	84	43	18	7.1	2.3	1.1	.87
28	22	137	346	154	934	79	41	18	6.7	2.2	1.1	.85
29	16	110	277	140	699	76	39	18	6.3	2.2	1.1	.85
30	11	91	1320	124	---	72	37	17	6.3	2.1	1.1	.83
31	8.8	---	1480	114	---	69	---	16	---	2.0	1.1	---
TOTAL	1067.19	5861.9	10622	26657	28438	8762	2499	813	317.6	115.7	43.4	27.99
MEAN	34.4	195	343	860	981	283	83.3	26.2	10.6	3.73	1.40	.93
MAX	739	721	2720	5100	4660	1100	370	44	22	6.1	2.0	1.1
MIN	.54	6.9	21	114	59	69	37	16	6.3	2.0	1.1	.83
AC-FT	2120	11630	21070	52870	56410	17380	4960	1610	630	229	86	55

CAL YR 1979	TOTAL	52037.56	MEAN	143	MAX	2720	MIN	.54	AC-FT	103200
WTR YR 1980	TOTAL	85224.78	MEAN	233	MAX	5100	MIN	.54	AC-FT	169000

## 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 mi<sup>2</sup> (31.6 km<sup>2</sup>).

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, except those for periods of no gage-height record, Oct. 7-9, Nov. 3-19, and Aug. 24 to Sept. 30, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--7 years, 28.9 ft<sup>3</sup>/s (0.818 m<sup>3</sup>/s), 20,940 acre-ft/yr (25.8 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft<sup>3</sup>/s (65.7 m<sup>3</sup>/s) Jan. 14, 1978, gage height, 9.82 ft (2.993 m); no flow many days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft<sup>3</sup>/s (25 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)		Gage height (ft) (m)	
Jan. 13	1300	*1670	47.3	8.71	2.655
Feb. 17	1745	1660	47.0	8.69	2.649

Minimum daily discharge, 0.29 ft<sup>3</sup>/s (0.008 m<sup>3</sup>/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	2.6	13	151	22	124	12	7.9	4.3	2.1	.49	.50
2	.30	6.2	11	100	21	111	11	7.7	4.1	2.1	.47	.49
3	.33	18	9.7	71	21	94	11	7.4	4.0	2.0	.46	.48
4	.31	15	8.5	55	19	101	26	7.1	5.3	2.0	.49	.47
5	.31	14	7.8	44	18	165	76	6.9	4.4	1.9	.55	.46
6	.32	82	7.2	36	17	143	42	6.9	4.1	1.9	.58	.44
7	.37	104	6.6	30	16	123	30	6.7	3.9	1.8	.56	.43
8	.47	46	6.0	27	15	103	26	6.5	3.8	1.9	.51	.42
9	.59	22	5.5	25	14	87	26	9.9	3.7	1.9	.50	.42
10	.40	15	5.2	26	14	73	22	7.5	3.5	1.8	.46	.41
11	.37	10	4.9	150	14	62	20	6.9	3.5	1.7	.44	.41
12	.38	8.5	4.6	665	13	52	17	6.7	3.5	1.6	.41	.40
13	.40	7.6	4.4	816	13	45	16	15	3.5	1.6	.42	.39
14	.92	6.7	4.2	551	13	44	15	8.5	3.3	1.5	.45	.39
15	.76	6.0	4.1	300	32	38	14	6.8	3.2	1.5	.46	.38
16	.51	118	4.0	302	326	34	14	6.2	3.1	1.3	.46	.39
17	.46	107	3.8	230	796	31	13	5.8	3.0	1.3	.45	.43
18	1.0	35	3.8	160	615	29	12	5.7	2.9	1.2	.47	.47
19	6.6	26	5.4	120	677	27	12	5.4	2.9	1.1	.52	.46
20	3.2	18	20	104	368	25	15	5.3	2.8	1.1	.51	.45
21	1.2	14	21	94	441	23	12	5.1	2.6	1.1	.48	.44
22	5.1	36	14	73	364	22	12	5.0	2.6	.98	.47	.43
23	11	30	148	59	241	20	11	5.0	2.6	.90	.49	.42
24	35	29	427	49	174	18	10	4.9	2.6	.84	.50	.41
25	126	33	186	43	161	19	10	4.8	2.6	.80	.57	.40
26	17	34	103	38	138	17	9.5	4.8	2.5	.74	.60	.39
27	7.8	28	68	34	174	16	9.1	4.7	2.4	.67	.58	.38
28	5.1	23	50	31	202	14	8.8	4.6	2.2	.62	.56	.38
29	4.0	18	39	29	149	14	8.5	4.5	2.1	.57	.54	.37
30	3.4	15	197	26	---	13	8.3	4.5	2.1	.54	.52	.37
31	2.9	---	254	23	---	12	---	4.4	---	.53	.50	---
TOTAL	236.79	927.6	1646.7	4462	5088	1699	529.2	199.1	97.1	41.59	15.47	12.68
MEAN	7.64	30.9	53.1	144	175	54.8	17.6	6.42	3.24	1.34	.50	.42
MAX	126	118	427	816	796	165	76	15	5.3	2.1	.60	.50
MIN	.29	2.6	3.8	23	13	12	8.3	4.4	2.1	.53	.41	.37
AC-FT	470	1840	3270	8850	10090	3370	1050	395	193	82	31	25
CAL YR 1979	TOTAL	9109.20	MEAN 25.0	MAX 482	MIN .20	AC-FT 18070						
WTR YR 1980	TOTAL	14955.23	MEAN 40.9	MAX 816	MIN .29	AC-FT 29660						

## 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 mi<sup>2</sup> (57.8 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

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 km<sup>2</sup>) in summer months.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,060 ft<sup>3</sup>/s (86.7 m<sup>3</sup>/s) Feb. 17, 1980, gage height 7.80 ft (2.377 m); minimum daily, no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 950 ft<sup>3</sup>/s (27 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 24	1245	1720 48.7	6.54 1.993	Feb. 17	1800	*3060 86.7	7.80 2.377
Jan. 13	1415	2890 81.8	7.65 2.332				

Minimum daily discharge, no flow several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.55	12	175	23	174	11	7.3	3.0			
2	0	1.2	9.8	122	22	157	11	7.0	2.7			
3	0	15	7.9	93	20	137	10	6.7	2.2			
4	0	16	7.0	74	19	122	10	6.4	2.7			
5	0	8.3	6.3	61	18	221	90	6.2	2.5			
6	0	20	5.8	55	17	190	52	6.0	2.4			
7	0	75	5.0	48	16	157	40	5.8	2.5			
8	0	31	4.1	43	14	131	34	5.6	2.6			
9	0	16	3.9	43	14	109	29	8.4	2.5			
10	0	10	3.5	40	13	95	26	6.8	2.4			
11	0	7.4	3.2	179	12	84	24	6.0	2.2			
12	0	5.3	2.8	1030	12	70	23	5.8	2.0			
13	0	4.1	2.3	1420	11	64	22	13	2.0			
14	0	3.4	2.2	861	11	61	21	8.0	1.9			
15	0	2.6	2.1	427	24	51	19	6.9	1.6			
16	0	78	2.0	414	302	45	18	6.2	1.4			
17	0	91	1.9	288	1220	44	17	5.7	1.2			
18	0	35	1.6	190	1240	39	16	5.3	.92			
19	0	21	7.5	136	1040	34	16	5.0	.88			
20	0	15	36	103	543	31	18	4.7	.85			
21	0	11	53	85	673	28	15	4.2	.59			
22	0	33	32	72	640	25	13	3.8	.47			
23	1.2	38	272	61	391	23	12	3.5	.40			
24	6.7	29	913	55	256	21	11	3.7	.30			
25	81	26	306	49	215	19	10	3.8	.34			
26	13	27	150	43	171	18	9.5	3.8	.11			
27	4.9	21	104	39	207	17	9.0	3.6	0			
28	2.4	19	83	35	253	15	8.5	3.5	0			
29	1.4	16	72	31	204	14	8.0	3.0	0			
30	1.0	14	272	27	---	13	7.7	3.1	0			
31	.79	---	288	25	---	12	---	3.1	---			---
TOTAL	112.39	689.85	2671.9	6324	7601	2221	610.7	171.9	42.66	0	0	0
MEAN	3.63	23.0	86.2	204	262	71.6	20.4	5.55	1.42	0	0	0
MAX	81	91	913	1420	1240	221	90	13	3.0	0	0	0
MIN	0	.55	1.6	25	11	12	7.7	3.0	0	0	0	0
AC-FT	223	1370	5300	12540	15080	4410	1210	341	85	0	0	0
CAL YR 1979	TOTAL	10855.58	MEAN 29.7	MAX 913	MIN 0	AC-FT 21530						
WTR YR 1980	TOTAL	20445.40	MEAN 55.9	MAX 1420	MIN 0	AC-FT 40550						

## RUSSIAN RIVER BASIN

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11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1979 to current year.

WATER TEMPERATURES: Water year 1979 to current year.

SEDIMENT RECORDS: Water year 1979 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1978 to current year.

SEDIMENT RECORDS: October 1978 to current year.

REMARKS.--Sediment table omitted for period of no flow July 1 to September 30. Zero bedload discharge observed at flows less than 28 ft<sup>3</sup>/s (0.79 m<sup>3</sup>/s).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,810 mg/L Jan. 13, Feb. 17, 1980; minimum daily mean, no flow many days in 1979-80.

SEDIMENT DISCHARGE: Maximum daily, 15,900 tons (14,400 metric tons) Jan. 13, 1980; minimum daily, 0 ton (0 metric ton) many days in 1979-80.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,180 mg/L Jan. 13, Feb. 17; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE: Maximum daily, 15,900 tons (14,400 metric tons) Jan. 13; minimum daily, 0 ton (0 metric ton) many days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	5.5	13.0	11.5	---	15.5	---	---			
2	---	---	11.0	11.5	10.0	---	---	---	---			
3	---	13.0	9.0	11.5	12.5	---	---	---	---			
4	---	13.5	9.0	10.5	---	12.0	---	---	---			
5	---	13.5	10.5	11.0	12.0	11.5	---	---	---			
6	---	---	8.0	12.0	---	12.0	---	---	---			
7	---	13.5	11.0	12.0	9.0	12.5	---	---	---			
8	---	---	8.5	11.5	8.5	14.5	13.5	---	---			
9	---	---	11.0	11.5	10.5	13.0	17.5	---	---			
10	---	---	10.0	9.5	9.0	---	17.0	---	---			
11	---	---	7.0	10.0	11.0	14.0	13.0	---	---			
12	---	---	5.0	14.0	11.5	14.0	14.0	---	---			
13	---	---	7.0	14.0	11.0	10.0	16.0	---	---			
14	---	---	9.0	14.0	11.0	13.0	---	---	---			
15	---	---	9.0	12.0	12.0	11.5	---	---	---			
16	---	---	9.0	16.0	---	11.0	15.0	---	---			
17	---	---	7.0	---	12.0	12.0	17.5	---	28.5			
18	---	---	---	9.0	13.0	9.5	14.5	---	---			
19	---	---	8.0	10.0	13.5	---	16.5	---	---			
20	---	6.5	---	11.5	12.0	13.0	---	25.0	---			
21	---	---	9.5	11.0	---	---	14.5	---	---			
22	---	8.5	8.5	13.0	13.5	11.0	14.5	---	---			
23	---	11.0	7.0	12.0	14.0	---	---	---	---			
24	---	11.0	10.5	12.0	---	---	17.5	---	---			
25	---	11.0	10.5	10.5	13.0	---	---	---	---			
26	13.5	10.0	9.0	9.5	13.0	15.0	---	---	---			
27	---	10.0	8.0	10.0	---	---	---	---	---			
28	17.0	9.0	8.5	9.0	13.5	---	---	---	---			
29	---	10.0	---	6.5	13.0	---	14.0	---	---			
30	---	10.5	---	5.0	---	---	16.0	---	---			
31	---	---	---	8.0	---	10.0	---	---	---			

## RUSSIAN RIVER BASIN

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	.55	4	.01	12	3	.10
2	0	0	0	1.2	8	.06	9.8	5	.13
3	0	0	0	15	98	6.1	7.9	5	.11
4	0	0	0	16	23	.99	7.0	5	.09
5	0	0	0	8.3	6	.13	6.3	6	.10
6	0	0	0	20	18	1.1	5.8	3	.05
7	0	0	0	75	147	35	5.0	4	.05
8	0	0	0	31	108	9.0	4.1	3	.03
9	0	0	0	16	90	3.9	3.9	2	.02
10	0	0	0	10	70	1.9	3.5	2	.02
11	0	0	0	7.4	50	1.0	3.2	3	.03
12	0	0	0	5.3	39	.56	2.8	2	.02
13	0	0	0	4.1	20	.22	2.3	1	.01
14	0	0	0	3.4	10	.09	2.2	2	.01
15	0	0	0	2.6	5	.04	2.1	2	.01
16	0	0	0	78	134	61	2.0	3	.02
17	0	0	0	91	210	52	1.9	2	.01
18	0	0	0	35	132	12	1.6	2	.01
19	0	0	0	21	84	4.8	7.5	8	.16
20	0	0	0	15	50	2.0	36	24	4.5
21	0	0	0	11	27	.80	53	15	2.5
22	0	0	0	33	92	19	32	4	.35
23	1.2	29	.14	38	47	4.8	272	730	1350
24	6.7	82	5.3	29	10	.78	913	2010	5820
25	81	269	87	26	10	.76	306	178	167
26	13	5	.18	27	17	1.2	150	42	17
27	4.9	5	.07	21	12	.68	104	18	5.1
28	2.4	7	.05	19	8	.41	83	17	3.8
29	1.4	6	.02	16	4	.17	72	16	3.1
30	1.0	5	.01	14	3	.11	272	1310	1310
31	.79	5	.01	---	---	---	288	602	501
TOTAL	112.39	---	92.78	689.85	---	220.61	2671.9	---	9185.33
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	175	76	36	23	1	.06	174	34	16
2	122	30	9.9	22	2	.12	157	27	11
3	93	12	3.0	20	2	.11	137	23	8.5
4	74	10	2.0	19	1	.05	122	25	9.3
5	61	4	.66	18	1	.05	221	154	99
6	55	2	.30	17	1	.05	190	52	27
7	48	3	.39	16	1	.04	157	22	9.3
8	43	3	.35	14	1	.04	131	13	4.6
9	43	7	.81	14	2	.08	109	8	2.4
10	40	4	.43	13	1	.04	95	7	1.8
11	179	126	151	12	1	.03	84	6	1.4
12	1030	1230	4220	12	1	.03	70	4	.76
13	1420	2810	15900	11	1	.03	64	8	1.4
14	861	1960	5050	11	1	.03	61	6	.99
15	427	770	888	24	16	1.3	51	3	.41
16	414	654	750	302	976	1600	45	4	.49
17	288	283	229	1220	2810	14900	44	3	.36
18	190	90	46	1240	2300	8140	39	6	.63
19	136	33	12	1040	2280	6840	34	4	.37
20	103	21	5.8	543	1130	1870	31	4	.33
21	85	13	3.0	673	1190	2290	28	3	.23
22	72	7	1.4	640	1070	1910	25	3	.20
23	61	5	.82	391	430	454	23	3	.19
24	55	4	.59	256	134	93	21	2	.11
25	49	5	.66	215	60	35	19	2	.10
26	43	4	.46	171	30	14	18	1	.05
27	39	3	.32	207	324	284	17	1	.04
28	35	3	.28	253	291	199	15	1	.04
29	31	3	.25	204	50	28	14	1	.04
30	27	5	.36	---	---	---	13	1	.03
31	25	4	.27	---	---	---	12	1	.03
TOTAL	6324	---	27314.05	7601	---	38659.06	2221	---	197.10

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	11	1	.02	7.3	3	.06	3.0	1	.01
2	11	1	.02	7.0	2	.04	2.7	1	.01
3	10	1	.01	6.7	1	.02	2.2	1	.01
4	10	3	.07	6.4	1	.02	2.7	1	.01
5	90	22	5.3	6.2	1	.02	2.5	1	.01
6	52	12	1.7	6.0	1	.02	2.4	1	.01
7	40	4	.43	5.8	1	.02	2.5	1	.01
8	34	2	.18	5.6	1	.02	2.6	1	.01
9	29	2	.16	8.4	4	.09	2.5	1	.01
10	26	2	.14	6.8	3	.06	2.4	1	.01
11	24	2	.13	6.0	2	.03	2.2	2	.01
12	23	2	.12	5.8	1	.02	2.0	2	.01
13	22	1	.06	13	6	.21	2.0	2	.01
14	21	1	.06	8.0	4	.09	1.9	2	.01
15	19	1	.05	6.9	3	.06	1.6	3	.01
16	18	1	.05	6.2	2	.03	1.4	3	.01
17	17	1	.05	5.7	1	.02	1.2	3	.01
18	16	1	.04	5.3	1	.01	.92	3	.01
19	16	1	.04	5.0	1	.01	.88	3	.01
20	18	1	.05	4.7	1	.01	.85	3	.01
21	15	1	.04	4.2	1	.01	.59	2	0
22	13	1	.04	3.8	1	.01	.47	2	0
23	12	1	.03	3.5	1	.01	.40	2	0
24	11	1	.03	3.7	2	.02	.30	1	0
25	10	1	.03	3.8	2	.02	.34	1	0
26	9.5	1	.03	3.8	2	.02	.11	1	0
27	9.0	2	.05	3.6	1	.01	0	0	0
28	8.5	2	.05	3.5	1	.01	0	0	0
29	8.0	3	.06	3.0	1	.01	0	0	0
30	7.7	4	.08	3.1	1	.01	0	0	0
31	---	---	---	3.1	1	.01	---	---	---
TOTAL	610.7	---	9.12	171.9	---	1.00	42.66	---	.20
YEAR 20445.40			75679.25						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1979	112.39	92.78	20	113
NOVEMBER ...	689.85	220.61	63	284
DECEMBER ...	2671.90	9185.33	1120	10300
JANUARY 1980	6324.00	27314.05	2890	30200
FEBRUARY ...	7601.00	38659.06	3920	42600
MARCH .....	2221.00	197.10	511	708
APRIL .....	610.70	9.12	41	30
MAY .....	171.90	1.00	0	1
JUNE .....	42.66	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 .....	20445.40	75679.25	8545	84236

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPER- ATURE, (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	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
DEC 26...	1000	9.0	155	45	19	--	--	--	--	--	--
JAN 12...	1205	14.0	1150	1270	3940	--	25	34	44	58	--
13...	1400	14.0	2850	6990	53800	--	21	32	42	55	67
FEB 17...	1230	12.0	554	1750	2620	9	14	20	27	35	--
MAR 05...	1700	11.5	250	211	142	--	--	--	--	--	--
DATE		SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
DEC 26...		79	--	89	--	97	--	100	--	--	--
JAN 12...		71	--	84	--	94	--	98	--	99	100
13...		--	79	--	89	--	95	--	100	--	--
FEB 17...		46	--	60	--	80	--	98	--	100	--
MAR 05...		85	--	93	--	99	--	100	--	--	--



## 11465200 DRY CREEK NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°41'55", long 122°57'25", in Tzabaco Grant, Sonoma County, Hydrologic Unit 18010110, on left bank pier of bridge 0.3 mi (0.5 km) downstream from Pena Creek, and 3 mi (5 km) west of Geyserville.

DRAINAGE AREA.--162 mi<sup>2</sup> (420 km<sup>2</sup>).

## 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 good. Some regulation by coffer dam at Warm Springs Dam construction site. Small diversions above station for orchard irrigation of about 1,200 acres (4.86 km<sup>2</sup>) in summer.

AVERAGE DISCHARGE.--21 years, 317 ft<sup>3</sup>/s (8.977 m<sup>3</sup>/s), 229,700 acre-ft/yr (283 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,400 ft<sup>3</sup>/s (918 m<sup>3</sup>/s) Jan. 31, 1963, gage height, 18.50 ft (5.639 m) present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,200 ft<sup>3</sup>/s (232 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 24	1400	11500 326	12.32 3.755	Feb. 17	2045	*19000 538	15.03 4.581
Jan. 13	1600	17500 496	14.56 4.438				

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	21	159	1310	220	995	140	93	50	12	1.1	6.2
2	0	22	138	924	209	868	135	88	42	9.2	.97	5.3
3	0	132	117	729	207	799	125	84	35	5.3	.97	4.7
4	0	241	99	574	196	761	173	74	35	6.6	1.3	1.7
5	0	119	86	447	185	1610	651	68	41	10	1.9	3.6
6	0	434	78	350	172	1290	315	64	41	11	1.4	5.5
7	0	1240	70	303	161	1080	235	63	39	3.8	2.4	5.8
8	0	482	63	247	154	915	196	58	41	1.1	1.7	5.7
9	0	238	57	222	147	775	187	62	38	2.4	3.3	5.6
10	0	163	52	236	136	669	170	69	33	3.1	2.1	5.8
11	0	120	48	995	129	582	160	68	32	3.2	.45	5.5
12	0	92	44	8970	124	516	154	64	39	2.9	2.2	5.3
13	0	72	41	10200	119	471	145	63	40	3.0	5.1	5.8
14	0	59	38	6120	121	457	139	68	38	3.3	3.1	8.6
15	0	49	37	3030	202	410	136	69	33	2.8	4.5	8.1
16	0	896	35	2940	1630	347	140	65	26	2.4	5.8	2.9
17	0	1380	33	1940	7560	318	138	64	21	2.4	2.9	1.4
18	0	504	32	1390	9610	291	128	64	28	2.7	4.5	.85
19	0	296	56	1140	8660	265	123	61	32	2.9	9.3	.68
20	0	209	159	891	3810	241	128	60	27	5.7	10	.58
21	0	163	444	738	4750	244	148	59	32	4.9	10	.51
22	0	476	238	630	3980	220	135	58	37	3.0	8.2	.49
23	0	706	1370	547	2410	213	121	55	29	2.6	10	.44
24	11	421	5880	474	1650	206	111	53	28	2.4	11	.40
25	798	383	2050	422	1390	199	105	55	27	2.2	7.3	.40
26	243	558	1110	385	1150	188	101	57	19	2.1	4.6	.40
27	97	351	756	345	1250	180	105	56	14	2.1	5.6	.40
28	59	274	583	316	1710	168	106	54	16	2.2	4.7	.40
29	89	221	463	291	1220	157	105	55	22	2.1	5.2	.40
30	48	184	2300	262	---	152	93	55	13	1.6	6.2	.40
31	28	---	2370	242	---	149	---	53	---	1.2	6.2	---
TOTAL	1373	10506	19006	47610	53262	15736	4848	1979	948	122.2	143.99	93.85
MEAN	44.3	350	613	1536	1837	508	162	63.8	31.6	3.94	4.64	3.13
MAX	798	1380	5880	10200	9610	1610	651	93	50	12	11	8.6
MIN	0	21	32	222	119	149	93	53	13	1.1	.45	.40
AC-FT	2720	20840	37700	94430	105600	31210	9620	3930	1880	242	286	186
CAL YR 1979	TOTAL	102202.76	MEAN 280	MAX 5880	MIN 0	AC-FT 202700						
WTR YR 1980	TOTAL	155628.04	MEAN 425	MAX 10200	MIN 0	AC-FT 308700						

## RUSSIAN RIVER BASIN

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  $66 \text{ ft}^3/\text{s}$  ( $1.87 \text{ m}^3/\text{s}$ ).

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded,  $28.5^{\circ}\text{C}$  June 15, 1980; minimum recorded,  $3.5^{\circ}\text{C}$ 

Jan. 3, 1974.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 15,000 mg/L (estimated) Dec. 22, 1964; minimum daily mean, no flow many days in 1964, 1966, 1970-79.

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, 1968-80.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded,  $28.5^{\circ}\text{C}$  June 15; minimum recorded,  $6.5^{\circ}\text{C}$  Dec. 23.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,140 mg/L Jan. 12; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE: Maximum daily, 60,000 tons (54,400 metric tons) Jan. 13; minimum daily, 0 ton (0 metric ton) many days.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (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)
NOV 29...	1045	214	200	7.6	10.0	25	10.8	89	0	19	10	9.8
JAN 31...	1000	218	186	7.7	8.0	6.6	11.2	86	0	18	9.9	8.2
JUN 19...	1005	31	249	7.7	19.5	1.5	9.6	110	0	25	12	12
AUG 20...	1500	10	280	8.3	23.5	1.6	10.3	120	3	26	14	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)
NOV 29...	19	.5	.7	89	15	4.5	.2	13	127	.17	73.4	.22
JAN 31...	17	.4	.7	89	13	4.0	.2	18	127	.17	74.8	.36
JUN 19...	19	.5	1.0	120	19	4.9	.2	15	162	.22	13.6	.03
AUG 20...	19	.5	1.1	120	24	6.5	.2	15	172	.23	4.64	.00
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. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
NOV 29...	.22	.02	.03	.54	.26	.56	.29	.78	.05	.01	9.4	.0
JAN 31...	.32	.00	.01	.52	.05	.52	.06	.88	.03	.02	2.5	.4
JUN 19...	.03	.01	.03	.43	.34	.44	.37	.47	.02	.02	2.2	.1
AUG 20...	.00	.00	.00	.39	.32	.39	.32	.39	.02	.01	5.0	.2

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
NOV 29...	1	0	6	190	1	2	0	0	0	40	2	0
JAN 31...	--	1	8	120	0	<1	0	10	0	60	4	0
JUN 19...	1	1	4	330	0	<1	0	0	0	14	4	1
AUG 20...	1	1	4	480	0	<1	1	0	0	75	4	0
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (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, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV 29...	23	100	3	0	--	420	.1	.0	.04	30	3	36
JAN 31...	16	20	5	2	10	430	--	.1	.04	20	4	35
JUN 19...	10	<10	1	0	10	190	.0	--	.02	10	<3	10
AUG 20...	18	<10	3	3	10	270	.0	.0	.03	30	<3	28

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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

## RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	25.0	19.0	23.0	18.5	25.0	21.5	23.0	18.5
2			---	---	24.0	17.5	23.0	18.5	24.5	20.5	22.0	18.5
3			---	---	23.0	17.5	23.0	17.5	24.0	20.5	22.5	19.0
4			---	---	23.0	18.5	24.0	17.5	22.5	20.0	22.0	19.0
5			---	---	24.5	18.0	25.0	18.5	23.0	19.5	22.0	18.0
6			---	---	24.5	18.5	25.0	18.5	23.5	19.5	21.5	18.5
7			---	---	25.5	19.0	23.0	18.5	25.0	19.5	22.5	18.0
8			---	---	26.5	19.5	23.0	20.0	24.5	19.5	22.0	19.0
9			---	---	27.0	20.0	23.0	17.5	25.0	19.5	22.0	19.0
10			---	---	26.5	20.0	24.5	18.0	25.5	19.5	21.5	18.5
11			---	---	25.5	19.5	23.5	18.0	25.0	19.5	22.5	19.0
12			---	---	25.5	20.5	23.0	18.0	24.5	19.0	21.5	18.5
13			20.5	15.5	26.5	20.0	23.0	18.5	24.0	19.5	21.0	18.0
14			21.0	15.0	27.0	20.0	23.0	18.5	24.0	19.5	20.0	17.0
15			21.5	15.0	28.5	21.0	24.0	18.5	24.5	19.0	20.5	17.0
16			22.0	15.5	27.5	21.0	23.5	18.5	24.5	19.0	20.5	16.5
17			23.0	16.0	28.0	21.5	23.5	19.0	23.0	19.0	19.5	17.5
18			24.0	17.0	24.5	20.5	23.0	18.5	21.0	19.0	20.0	17.5
19			24.0	17.0	24.0	18.0	23.5	18.5	23.5	19.0	21.0	17.5
20			25.0	18.0	24.5	18.0	24.5	19.5	24.0	18.5	21.5	18.0
21			24.0	18.5	24.5	18.0	25.0	20.0	23.5	19.0	21.0	17.5
22			22.0	17.0	24.0	18.0	25.0	19.5	22.5	19.0	21.0	17.5
23			20.5	15.5	24.5	18.0	24.5	19.5	22.5	18.5	21.0	17.5
24			21.0	15.5	24.0	18.0	24.0	19.5	23.0	19.0	21.0	18.5
25			21.0	15.5	24.5	18.5	25.0	19.5	22.0	19.5	20.5	18.5
26			21.5	16.0	24.0	17.5	24.5	20.5	22.0	18.5	20.5	19.0
27			21.5	16.5	25.0	18.5	25.0	20.5	22.5	18.0	20.5	18.5
28			22.5	16.5	25.0	19.0	24.5	21.0	21.5	18.5	20.5	18.5
29			23.0	17.5	25.0	19.5	24.5	20.5	22.5	18.5	20.5	18.5
30			23.0	18.0	24.5	19.0	24.0	21.0	22.5	18.0	20.5	19.0
31			24.0	18.5	---	---	24.5	21.5	23.0	18.0	---	---
MONTH			---	---	28.5	17.5	25.0	17.5	25.5	18.0	23.0	16.5
YEAR	28.5	6.5										

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	21	72	4.1	159	20	8.6
2	0	0	0	22	66	3.9	138	18	6.7
3	0	0	0	132	558	378	117	16	5.1
4	0	0	0	241	267	210	99	14	3.7
5	0	0	0	119	114	37	86	12	2.8
6	0	0	0	434	576	808	78	11	2.3
7	0	0	0	1240	762	2820	70	10	1.9
8	0	0	0	482	119	167	63	9	1.5
9	0	0	0	238	82	53	57	8	1.2
10	0	0	0	163	69	30	52	7	.98
11	0	0	0	120	57	18	48	6	.78
12	0	0	0	92	49	12	44	5	.59
13	0	0	0	72	40	7.8	41	4	.44
14	0	0	0	59	30	4.8	38	3	.31
15	0	0	0	49	22	2.9	37	3	.30
16	0	0	0	896	355	1810	35	3	.28
17	0	0	0	1380	392	1660	33	3	.27
18	0	0	0	504	167	227	32	3	.26
19	0	0	0	296	78	62	56	9	1.5
20	0	0	0	209	52	29	159	37	34
21	0	0	0	163	37	16	444	73	101
22	0	0	0	476	171	554	238	24	15
23	0	0	0	706	285	619	1370	320	3210
24	11	58	5.2	421	134	152	5880	1540	30200
25	798	946	2660	383	105	120	2050	558	3580
26	243	238	203	558	178	300	1110	215	644
27	97	158	41	351	69	65	756	130	265
28	59	95	15	274	50	37	583	87	137
29	89	124	42	221	30	18	463	61	76
30	48	90	12	184	25	12	2300	689	5910
31	28	77	5.8	---	---	---	2370	468	3240
TOTAL	1373.00	---	2984.00	10506	---	10237.5	19006	---	47451.51

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	1310	260	920	220	15	8.9	995	210	564
2	924	160	399	209	14	7.9	868	147	345
3	729	100	197	207	13	7.3	799	96	207
4	574	63	98	196	12	6.4	761	58	119
5	447	50	60	185	11	5.5	1610	332	1440
6	350	39	37	172	10	4.6	1290	190	662
7	303	29	24	161	9	3.9	1080	142	414
8	247	21	14	154	8	3.3	915	116	287
9	222	17	10	147	7	2.8	775	100	209
10	236	19	12	136	6	2.2	669	86	155
11	995	256	1990	129	5	1.7	582	70	110
12	8970	2140	56400	124	4	1.3	516	50	70
13	10200	1830	60000	119	3	.96	471	32	41
14	6120	1280	22000	121	2	.65	457	30	37
15	3030	590	4830	202	6	4.6	410	30	33
16	2940	417	3410	1630	686	6140	347	35	33
17	1940	242	1270	7560	1630	50900	318	40	34
18	1390	182	683	9610	1470	41600	291	48	38
19	1140	160	492	8660	1750	45400	265	40	29
20	891	144	346	3810	878	9620	241	30	20
21	738	130	259	4750	923	13200	244	22	14
22	630	113	192	3980	523	6120	220	14	8.3
23	547	98	145	2410	354	2300	213	8	4.6
24	474	79	101	1650	278	1240	206	8	4.4
25	422	60	68	1390	240	901	199	7	3.8
26	385	46	48	1150	212	658	188	7	3.6
27	345	39	36	1250	258	871	180	7	3.4
28	316	33	28	1710	446	2060	168	6	2.7
29	291	26	20	1220	299	985	157	6	2.5
30	262	18	13	---	---	---	152	6	2.5
31	242	16	10	---	---	---	149	5	2.0
TOTAL	47610	---	154112	53262	---	182057.0	15736	---	4898.8
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	140	5	1.9	93	9	2.3	50	5	.68
2	135	5	1.8	88	9	2.1	42	5	.57
3	125	5	1.7	84	8	1.8	35	5	.47
4	173	11	5.8	74	8	1.6	35	5	.47
5	651	74	148	68	8	1.5	41	6	.66
6	315	48	41	64	8	1.4	41	6	.66
7	235	46	29	63	7	1.2	39	6	.63
8	196	44	23	58	7	1.1	41	6	.66
9	187	42	21	62	7	1.2	38	5	.51
10	170	40	18	69	7	1.3	33	5	.45
11	160	40	17	68	6	1.1	32	5	.43
12	154	38	16	64	6	1.0	39	6	.63
13	145	38	15	63	6	1.0	40	6	.65
14	139	38	14	68	6	1.1	38	6	.62
15	136	38	14	69	6	1.1	33	5	.45
16	140	28	11	65	6	1.1	26	5	.35
17	138	20	7.5	64	6	1.0	21	4	.23
18	128	15	5.2	64	6	1.0	28	4	.30
19	123	11	3.7	61	6	.99	32	4	.35
20	128	20	6.9	60	6	.97	27	4	.29
21	148	18	7.2	59	6	.96	32	4	.35
22	135	17	6.2	58	6	.94	37	4	.40
23	121	16	5.2	55	6	.89	29	4	.31
24	111	15	4.5	53	6	.86	28	4	.30
25	105	14	4.0	55	6	.89	27	4	.29
26	101	13	3.5	57	5	.77	19	4	.21
27	105	12	3.4	56	5	.76	14	3	.11
28	106	11	3.1	54	5	.73	16	3	.13
29	105	10	2.8	55	5	.74	22	5	.30
30	93	9	2.3	55	5	.74	13	4	.14
31	---	---	---	53	5	.72	---	---	---
TOTAL	4848	---	443.7	1979	---	34.86	948	---	12.60

## RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	JULY				AUGUST			SEPTEMBER		
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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	12	4	.13	1.1	3	.01	6.2	4	.07	
2	9.2	4	.10	.97	2	.01	5.3	3	.04	
3	5.3	4	.06	.97	2	.01	4.7	3	.04	
4	6.6	4	.07	1.3	2	.01	1.7	3	.01	
5	10	5	.14	1.9	2	.01	3.6	3	.03	
6	11	5	.15	1.4	2	.01	5.5	3	.04	
7	3.8	4	.04	2.4	3	.02	5.8	3	.05	
8	1.1	4	.01	1.7	3	.01	5.7	2	.03	
9	2.4	4	.03	3.3	2	.02	5.6	2	.03	
10	3.1	4	.03	2.1	2	.01	5.8	2	.03	
11	3.2	4	.03	.45	2	0	5.5	2	.03	
12	2.9	4	.03	2.2	3	.02	5.3	2	.03	
13	3.0	3	.02	5.1	4	.06	5.8	2	.03	
14	3.3	3	.03	3.1	4	.03	8.6	3	.07	
15	2.8	3	.02	4.5	3	.04	8.1	3	.07	
16	2.4	3	.02	5.8	3	.05	2.9	2	.02	
17	2.4	3	.02	2.9	3	.02	1.4	2	.01	
18	2.7	3	.02	4.5	4	.05	.85	2	0	
19	2.9	3	.02	9.3	6	.15	.68	2	0	
20	5.7	3	.05	10	8	.22	.58	2	0	
21	4.9	3	.04	10	7	.19	.51	1	0	
22	3.0	3	.02	8.2	7	.15	.49	1	0	
23	2.6	3	.02	10	8	.22	.44	1	0	
24	2.4	3	.02	11	8	.24	.40	1	0	
25	2.2	3	.02	7.3	7	.14	.40	1	0	
26	2.1	3	.02	4.6	7	.09	.40	1	0	
27	2.1	3	.02	5.6	6	.09	.40	1	0	
28	2.2	3	.02	4.7	6	.08	.40	1	0	
29	2.1	3	.02	5.2	5	.07	.40	1	0	
30	1.6	3	.01	6.2	5	.08	.40	1	0	
31	1.2	3	.01	6.2	4	.07	---	---	---	
TOTAL	122.2	---	1.24	143.99	---	2.18	93.85	---	.63	

YEAR 155628.04

402236.03

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1979	1373.00	2984.00	317	3300
NOVEMBER ...	10506.00	10237.50	2610	12800
DECEMBER ...	19006.00	47451.51	6110	53600
JANUARY 1980	47610.00	154112.00	14400	169000
FEBRUARY ...	53262.00	182057.01	16600	199000
MARCH .....	15736.00	4898.80	4460	9360
APRIL .....	4848.00	443.70	379	823
MAY .....	1979.00	34.86	1	36
JUNE .....	948.00	12.60	0	13
JULY .....	122.20	1.24	0	1
AUGUST .....	143.99	2.18	0	2
SEPTEMBER ..	93.85	0.63	0	1
TOTAL .....	155628.04	402236.03	44877	447936

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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
OCT 26...	1220	17.0	214	279	161	68	87	94
NOV 29...	1030	10.0	218	30	18	--	--	--
DEC 26...	1315	10.0	1090	210	618	41	55	67
JAN 03...	1600	11.0	688	92	171	--	--	--
12...	1610	13.5	7910	1930	41200	--	30	41
MAR 13...	1225	13.5	467	32	40	--	--	--
APR 15...	1540	19.0	138	38	14	--	--	--
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 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT 26...	98	99	99	100	--	--	--	--
NOV 29...	--	--	98	100	--	--	--	--
DEC 26...	79	85	89	93	98	99	100	--
JAN 03...	--	--	92	94	96	99	100	--
12...	52	65	75	82	87	90	94	98
MAR 13...	--	--	86	91	95	97	100	--
APR 15...	--	--	89	92	94	97	100	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		TEMPER- ATURE, WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
DATE	TIME							
JUL								
07...	1135	20.0	1	4.5	--	--	--	--
07...	1140	20.0	1	4.5	--	--	1	9
07...	1145	20.0	1	4.5	1	1	2	4
07...	1150	20.0	1	4.5	1	2	4	8
07...	1155	20.0	1	4.5	19	44	86	94
	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	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
JUL								
07...	1	3	8	19	33	52	100	--
07...	21	40	59	80	99	100	--	--
07...	7	12	18	24	31	47	81	100
07...	10	15	25	35	46	68	100	--
07...	96	97	98	100	--	--	--	--

## RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SEDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)
OCT			
24...	--	137	130
25...	--	722	500
26...	--	279	240
26...	1220	279	--
31...	--	74	95
NOV			
03...	--	1630	1000
07...	--	527	360
14...	--	30	40
17...	--	362	240
28...	--	49	45
29...	--	30	27
29...	1030	30	--
29...	1045	--	25
DEC			
15...	--	3	4.2
24...	--	2770	750
26...	--	210	320
26...	1315	210	--
30...	--	977	600
JAN			
02...	--	149	60
03...	--	92	70
03...	1600	92	--
04...	--	75	60
07...	--	37	28
09...	--	21	16
12...	1100	2010	1500
12...	1610	1930	--
12...	1615	1930	650
13...	--	1640	800
30...	--	18	12
31...	--	17	11
31...	1000	--	6.6
FEB			
12...	--	5	3.0
13...	--	2	2.5
16...	1200	666	360
16...	1300	692	360
18...	--	1590	600
21...	--	716	350
MAR			
03...	--	94	50
04...	--	58	35
13...	--	32	20
13...	1225	32	--
18...	--	54	14
APR			
15...	--	38	25
15...	1540	38	--
19...	--	11	6.0
MAY			
12...	--	6	1.7
20...	--	6	1.2
JUN			
19...	1005	--	1.5
JUL			
07...	--	4	.55
AUG			
19...	--	6	3.0
20...	1500	--	1.6



## 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, 63.54 ft (19.367 m) Jan. 14.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	55.00	---							
2			---	---	---							
3			---	---	---							
4			---	---	---							
5			---	---	---							
6			---	---	---							
7			---	---	---							
8			---	---	---							
9			---	---	---							
10			---	---	---							
11			---	57.60	---							
12			---	61.00	---							
13			---	63.20	---							
14			---	61.60	---							
15			---	58.30	---							
16			---	58.10	55.20							
17			---	56.50	60.60							
18			---	55.10	60.10							
19			---	---	61.60							
20			---	---	59.10							
21			55.20	---	58.60							
22			---	---	56.00							
23			56.80	---	55.40							
24			60.60	---	---							
25			58.30	---	---							
26			55.70	---	---							
27			---	---	55.30							
28			---	---	55.80							
29			---	---	---							
30			---	---	---							
31			55.70	---	---							
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 mi<sup>2</sup> (3,465 km<sup>2</sup>).

## 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 km<sup>2</sup>). 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 km<sup>2</sup>) upstream, and by diversion at Wohler pumping plant beginning in May 1959.

AVERAGE DISCHARGE.--41 years, 2,279 ft<sup>3</sup>/s (64.54 m<sup>3</sup>/s), 1,651,000 acre-ft/yr (2.04 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93,400 ft<sup>3</sup>/s (2,650 m<sup>3</sup>/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 ft<sup>3</sup>/s (0.021 m<sup>3</sup>/s) May 6, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 23,000 ft<sup>3</sup>/s (651 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Dec. 24	2300	42400 1200	30.85 9.403	Jan. 16	1700	30400 861	25.92 7.900
Jan. 14	0645	*59700 1690	37.46 11.418	Feb. 19	1915	54500 1540	35.52 10.826

Minimum daily discharge, 117 ft<sup>3</sup>/s (3.31 m<sup>3</sup>/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	328	1480	12200	1870	8550	1160	861	311	180	158	157
2	169	302	1320	7980	1800	7100	1110	826	302	180	152	157
3	161	372	1200	5970	1800	6430	1050	806	292	182	155	157
4	160	988	1100	4470	1730	6060	1130	780	295	176	160	157
5	159	762	1010	3570	1630	11100	2650	759	311	173	164	154
6	155	737	935	3070	1550	11800	2790	735	295	177	162	148
7	153	3370	880	2720	1460	9440	2170	711	284	176	158	144
8	154	3100	830	2460	1390	7300	1780	700	283	174	160	143
9	161	1810	775	2330	1340	5500	1600	709	288	169	159	142
10	165	1370	736	2320	1290	4640	1490	754	274	168	157	139
11	174	1050	705	4160	1250	4060	1320	669	270	163	155	139
12	170	875	675	36600	1410	3660	1220	588	266	164	152	139
13	167	756	647	48800	1700	3350	1140	549	268	165	150	139
14	173	673	616	55300	1490	3140	1080	534	269	166	153	139
15	177	627	597	36400	1260	3370	1060	585	262	160	154	139
16	170	1570	580	27400	3550	2950	1010	606	263	159	157	139
17	166	9530	562	24000	23100	2660	942	629	245	156	161	139
18	163	4150	547	16700	49600	2510	1060	636	236	154	162	139
19	175	3330	1160	11600	51100	2330	1060	626	225	156	157	139
20	196	2450	1860	8220	39100	2120	1110	526	218	162	157	139
21	198	1770	3710	6680	35500	1970	1300	374	211	163	157	139
22	185	1760	3230	5460	29100	1860	1250	408	208	162	157	139
23	196	4230	5150	4450	21900	1740	1180	394	208	162	157	138
24	232	3030	31600	3930	15600	1640	1120	377	202	156	157	134
25	2120	3120	30600	3530	13200	1580	1070	362	195	151	157	131
26	2220	3460	13300	3160	9510	1530	1040	352	184	143	157	130
27	925	3020	8220	2840	8330	1430	1010	343	175	140	157	130
28	611	2460	5950	2580	14700	1360	976	325	169	141	157	130
29	481	2120	4630	2390	11600	1300	946	326	173	144	157	130
30	444	1800	9220	2200	---	1250	910	324	183	147	157	117
31	375	---	14500	2020	---	1200	---	317	---	154	157	---
TOTAL	11350	64920	148325	355510	348860	124930	38734	17491	7365	5019	4870	4206
MEAN	366	2164	4785	11470	12030	4030	1291	564	246	162	157	140
MAX	2220	9530	31600	55300	51100	11800	2790	861	311	182	164	157
MIN	153	302	547	2020	1250	1200	910	317	169	140	150	117
AC-FT	22510	128800	294200	705200	692000	247800	76830	34690	14610	9960	9660	8340
CAL YR 1979 TOTAL	698607	MEAN	1914	MAX	31600	MIN	113	AC-FT	1386000			
WTR YR 1980 TOTAL	1131580	MEAN	3092	MAX	55300	MIN	117	AC-FT	2244000			

## 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.--Differences between recorder values before adjustment and field measurement values exceeded  $\pm 10$  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,  $29.5^\circ\text{C}$  June 26, 1973; minimum recorded,  $4.5^\circ\text{C}$  Dec. 15, 1967, Jan. 12, 1968.

SEDIMENT CONCENTRATIONS (water years 1970-80): Maximum daily mean, 2,350 mg/L Jan. 16, 1974; minimum daily mean, 2 mg/L Dec. 12, 27, 1978.

SEDIMENT DISCHARGE (water years 1970-80): 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, 345 micromhos Nov. 26; minimum recorded, 70 micromhos Feb. 17.

WATER TEMPERATURES: Maximum recorded,  $28.0^\circ\text{C}$  July 23-25; minimum recorded,  $8.5^\circ\text{C}$  several days in Dec. and Jan.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,300 mg/L Jan. 14; minimum daily mean, 5 mg/L Oct. 14-23.

SEDIMENT DISCHARGE: Maximum daily, 194,000 tons (176,000 metric tons) Jan. 14; minimum daily, 1.9 ton (1.7 metric ton) Sept. 30.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT										
18...A	1120	--	261	7.9	--	--	8.7	--	--	--
18...	1245	160	239	8.1	20.0	1.5	8.8	--	33	K8
NOV										
06...	1200	657	237	7.6	15.0	10	8.9	--	>600	380
DEC										
05...	1145	1020	256	7.5	10.5	8.9	10.5	--	58	20
JAN										
21...	1230	6600	195	6.5	10.0	72	10.6	--	98	42
FEB										
20...	1345	36700	129	7.4	12.5	170	9.0	--	1100	350
MAR										
18...	1100	2510	246	7.5	12.0	12	10.5	97	170	51
APR										
24...	1000	1130	255	8.0	16.0	7.0	10.1	101	36	K4
MAY										
20...	1300	615	248	8.1	22.0	5.6	8.9	101	26	K1
JUN										
25...	1110	196	284	7.9	22.5	3.2	8.5	96	20	K8
JUL										
16...	1120	161	271	7.7	25.0	2.8	8.9	106	12	K10
AUG										
14...A	1000	--	264	7.9	--	3.0	7.4	--	--	--
18...	1225	165	244	8.2	22.0	4.7	8.1	92	28	23
SEP										
24...	1220	134	260	8.1	21.0	.40	--	98	14	21

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

## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUBRNEVILLE, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	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)
OCT 18...	110	--	24	13	9.0	15	.4	1.2	--	--
18...	100	0	22	12	8.8	15	.4	1.2	110	15
NOV 06...	110	17	23	13	13	32	.5	2.5	94	25
DEC 05...	110	1	23	13	11	29	.5	1.4	110	16
JAN 21...	86	0	18	10	7.3	15	.3	2.0	89	11
FEB 20...	49	0	10	5.9	5.7	19	.4	1.8	50	4.8
MAR 18...	110	11	23	13	8.9	15	.4	1.2	100	14
APR 24...	120	8	24	14	10	15	.4	1.3	110	16
MAY 20...	110	1	23	13	9.6	16	.4	1.2	110	14
JUN 25...	130	0	26	16	9.7	14	.4	1.3	130	15
JUL 16...	130	7	26	15	9.8	14	.4	1.3	120	23
AUG 14...	120	--	25	13	9.0	14	.4	1.1	--	--
18...	120	0	25	13	8.8	14	.4	1.2	120	13
SEP 24...	110	3	24	13	8.2	13	.3	1.1	110	12
DATE	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)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE 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)
OCT 18...	6.0	--	--	139	--	.19	--	.09	--	--
18...	6.0	.1	12	152	143	.21	65.7	--	.02	.00
NOV 06...	11	.2	16	147	163	.20	261	--	1.4	.60
DEC 05...	7.7	.1	15	163	156	.22	449	--	.62	.53
JAN 21...	5.0	.1	17	135	127	.18	2410	--	--	.71
FEB 20...	4.2	.3	16	74	80	.10	7330	--	.28	.28
MAR 18...	6.3	.1	18	153	148	.21	1040	--	.67	.68
APR 24...	6.2	.1	16	160	156	.22	488	--	.44	.45
MAY 20...	5.5	.2	13	154	147	.21	256	--	.23	.23
JUN 25...	6.0	.2	14	164	173	.22	86.8	--	.25	.25
JUL 16...	9.6	.2	12	170	169	.23	73.9	--	.72	.00
AUG 14...	5.0	--	--	134	--	.18	--	--	--	--
18...	5.5	.2	13	153	152	.21	68.2	--	.00	.00
SEP 24...	5.8	.1	11	151	157	.21	54.6	--	.00	.00

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

[illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE TIME	OCT 18,79 1245	MAR 18,80 1100	MAY 20,80 1300	JUN 25,80 1110
TOTAL CELLS/ML	190	1500	4700	4900
DIVERSITY: DIVISION	1.2	1.2	1.3	1.1
..CLASS	1.2	1.2	1.3	1.1
..ORDER	1.8	1.7	1.7	1.5
...FAMILY	2.0	1.8	2.7	1.6
....GENUS	2.4	1.9	2.9	2.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...CHLOROCOCCACEAE								
....CHLOROCOCCUM	--	-	800#	53	--	-	--	-
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	460	10	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	25	1
....DICTYOSPHAERIUM	--	-	--	-	1200#	25	100	2
...OOCYSTIS								
....SELENASTRUM	13	7	--	-	*	0	--	-
....TREUBARIA	--	-	--	-	*	0	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	160	3	400	8
...SCENEDESMUS	26	13	26	2	1000#	21	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	210	14	60	1	500	10
...CHLOROGONIUM	--	-	--	-	--	-	--	-
...VOLVOCAEAE								
....PANDORINA	--	-	--	-	--	-	--	-
CHRYCOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	65#	33	120	8	120	3	2400#	50
....MELOSIRA	26	13	--	-	--	-	980#	20
...PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	*	0	--	-
...COCCONEIS	--	-	--	-	*	0	--	-
...RHOICOSPHENIA	--	-	--	-	--	-	--	-
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....SYNEDRA	--	-	--	-	--	-	--	-
...GOMPHONEHATACEAE								
....GOMPHONEMA	--	-	--	-	*	0	--	-
...NAVICULACEAE								
....NAVICULA	--	-	--	-	40	1	--	-
...NITZSCHIIACEAE								
....NITZSCHIA	39#	20	13	1	240	5	150	3
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	320	7	--	-
....ANACYSTIS	--	-	26	2	--	-	250	5
....COCCOCHLORIS	--	-	--	-	--	-	--	-
...GOMPHOSPHAERIA	26	13	310#	21	--	-	--	-
...HORMOGONALES								
...OSCILLATORIAEAE								
....OSCILLATORIA	--	-	--	-	970#	21	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	*	0	--	-
...TRACHELOMONAS	--	-	--	-	--	-	--	-

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 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE TIME	OCT 18,79 1245		MAR 18,80 1100		MAY 20,80 1300		JUN 25,80 1110		CONTINUED
	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	
ORGANISM									
PYRRHOPHYTA (FIRE ALGAE)									
..DINOPHYCEAE									
..PERIDINIALES									
...GLENODINIACEAE							25	1	
....GLENODINIUM	--	-	--	-	--	-			

DATE TIME	JUL 16,80 1120	AUG 18,80 1225	SEP 24,80 1220
TOTAL CELLS/ML	5000	3700	930
DIVERSITY: DIVISION	1.7	1.6	1.6
..CLASS	1.7	1.6	1.6
..ORDER	2.2	2.1	1.9
...FAMILY	2.6	2.5	2.1
....GENUS	2.9	3.2	2.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....CHARACIACEAE						
....SCHROEDERIA	--	-	* 0	--	--	-
...CHLOROCOCCACEAE						
....CHLOROCOCCUM	--	-	--	-	--	-
...COELASTRACEAE						
....COELASTRUM	--	-	--	-	--	-
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	100	3	--	-
...MICRACTINIACEAE						
....MICRACTINIUM	150	3	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	450	9	120	3	26	3
...DICTYOSPHAERIUM						
....DICTYOSPHAERIUM	50	1	--	-	--	-
...OOCYSTIS						
....SELENASTRUM	--	-	* 0	--	--	-
...TREUBARIA						
....TREUBARIA	--	-	--	-	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	--	-	620#	17	--	-
...SCENEDESMUS	200	4	440	12	310#	33
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	75	1	39	1	39	4
...CHLOROGONIUM						
....CHLOROGONIUM	* 0	--	--	-	--	-
...VOLVOCAEEAE						
....PANDORINA	--	-	78	2	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
....COSCINODISCACEAE						
...CYCLOTELLA	1300#	25	650#	17	130	14
...MELOSIRA	450	9	210	6	--	-
...PENNALES						
....ACHNANTHACEAE						
...ACHNANTHES	--	-	--	-	--	-
...COCCONEIS	--	-	--	-	--	-
...RHOICOSPHENIA	* 0	--	--	-	--	-
...CYMBELLACEAE						
....AMPHORA	* 0	--	--	-	--	-
...FRAGILARIACEAE						
...SYNEDRA	380	7	26	1	--	-
...GOMPHONEMACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	--	-	26	1	39	4
...NITZSCHACEAE						
....NITZSCHIA	200	4	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
....CRYPTOMONADACEAE						
...CRYPTOMONAS	200	4	26	1	13	1

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

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

## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE TIME	JUL 16,80 1120	AUG 18,80 1225	SEP 24,80 1220	CONTINUED
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)				
..CYANOPHYCEAE				
...CHROOCOCCALES				
...CHROOCOCCACEAE				
....AGMENELLUM	--	-	410	11
....ANACYSTIS	1500#	29	720#	19
....COCCOCHLORIS	--	-	--	-
....GOMPHOSPHERIA	--	-	--	-
..HORMOGONALES				
...OSCILLATORIAEAE				
....OSCILLATORIA	--	-	230	6
EUGLENOPHYTA (EUGLENOIDS)				
..EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENAEAE				
....EUGLENA	*	0	--	-
....TRACHELOMONAS	--	-	*	0
PYRRHOPHYTA (FIRE ALGAE)				
..DINOPHYCEAE				
..PERIDINIALES				
...GLENODINIAEAE				
....GLENODINIUM	--	-	--	-

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 CHROMO- GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS)	SAMPLING METHOD
OCT 18...	1245	31	13.2	11.2	14.1	5.73	142	POLYETHYLENE STRIP
MAY 20...	1300	26	24.2	18.0	48.9	13.7	127	POLYETHYLENE STRIP
JUL 16...	1120	21	2.76	2.05	4.94	1.52	144	POLYETHYLENE STRIP
SEP 24...	1220	37	82.1	69.9	43.0	3.83	284	POLYETHYLENE STRIP







## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	12200	396	13000	1870	46	232	8550	134	3090
2	7980	270	5820	1800	43	209	7100	109	2090
3	5970	195	3140	1800	41	199	6430	94	1630
4	4470	140	1690	1730	39	182	6060	90	1470
5	3570	95	916	1630	38	167	11100	258	8340
6	3070	64	530	1550	34	142	11800	312	9940
7	2720	57	419	1460	30	118	9440	208	5300
8	2460	52	345	1390	25	94	7300	149	2940
9	2330	50	315	1340	24	87	5500	118	1750
10	2320	49	307	1290	23	80	4640	102	1280
11	4160	74	970	1250	21	71	4060	88	965
12	36600	941	107000	1410	28	107	3660	75	741
13	48800	1240	163000	1700	27	124	3350	64	579
14	55300	1300	194000	1490	23	93	3140	59	500
15	36400	651	64000	1260	22	75	3370	68	619
16	27400	538	39800	3550	72	1080	2950	66	526
17	24000	466	30200	23100	519	36400	2660	59	414
18	16700	344	15500	49600	1110	149000	2510	54	366
19	11600	282	8830	51100	900	124000	2330	50	315
20	8220	250	5550	39100	570	60200	2120	46	263
21	6680	230	4150	35500	702	67300	1970	41	218
22	5460	184	2710	29100	539	42300	1860	36	181
23	4450	121	1450	21900	438	25900	1740	32	150
24	3930	88	934	15600	312	13100	1640	28	124
25	3530	78	743	13200	246	8770	1580	25	105
26	3160	68	580	9510	190	4880	1530	22	91
27	2840	63	483	8330	161	3620	1430	19	73
28	2580	58	404	14700	231	9170	1360	18	66
29	2390	55	355	11600	164	5140	1300	18	63
30	2200	51	303	---	---	---	1250	17	57
31	2020	50	273	---	---	---	1200	16	52
TOTAL	355510	---	667717	348860	---	552840	124930	---	44298
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	1160	15	47	861	15	35	311	15	13
2	1110	15	45	826	15	33	302	15	12
3	1050	14	40	806	15	33	292	15	12
4	1130	15	40	780	15	32	295	15	12
5	2650	50	410	759	15	31	311	15	13
6	2790	64	482	735	15	30	295	15	12
7	2170	57	334	711	15	29	284	14	11
8	1780	51	245	700	16	30	283	14	11
9	1600	44	190	709	16	31	288	14	11
10	1490	37	149	754	16	33	274	14	10
11	1320	31	110	669	16	29	270	14	10
12	1220	26	86	588	16	25	266	14	10
13	1140	23	71	549	16	24	268	14	10
14	1080	23	67	534	16	23	269	14	10
15	1060	22	63	585	16	25	262	13	9.2
16	1010	20	55	606	16	26	263	14	9.9
17	942	19	48	629	16	27	245	15	9.9
18	1060	18	52	636	16	27	236	16	10
19	1060	18	52	626	16	27	225	17	10
20	1110	18	54	526	16	23	218	18	11
21	1300	19	67	374	16	16	211	16	9.1
22	1250	17	57	408	16	18	208	14	7.9
23	1180	16	51	394	16	17	208	12	6.7
24	1120	15	45	377	16	16	202	12	6.5
25	1070	15	43	362	16	16	195	12	6.3
26	1040	15	42	352	15	14	184	12	6.0
27	1010	15	41	343	15	14	175	12	5.7
28	976	15	40	325	15	13	169	12	5.5
29	946	15	38	326	15	13	173	12	5.6
30	910	15	37	324	15	13	183	12	5.9
31	---	---	---	317	15	13	---	---	---
TOTAL	38734	---	3101	17491	---	736	7365	---	282.2

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	180	11	5.3	158	12	5.1	157	11	4.7
2	180	11	5.3	152	12	4.9	157	11	4.7
3	182	11	5.4	155	12	5.0	157	11	4.7
4	176	11	5.2	160	12	5.2	157	10	4.2
5	173	11	5.1	164	12	5.3	154	10	4.2
6	177	11	5.3	162	13	5.7	148	10	4.0
7	176	11	5.2	158	13	5.5	144	10	3.9
8	174	11	5.2	160	13	5.6	143	10	3.9
9	169	11	5.0	159	13	5.6	142	9	3.5
10	168	11	5.0	157	13	5.5	139	9	3.4
11	163	11	4.8	155	13	5.4	139	9	3.4
12	164	10	4.4	152	13	5.3	139	9	3.4
13	165	10	4.5	150	13	5.3	139	9	3.4
14	166	10	4.5	153	13	5.4	139	8	3.0
15	160	10	4.3	154	14	5.8	139	8	3.0
16	159	10	4.3	157	14	5.9	139	8	3.0
17	156	10	4.2	161	14	6.1	139	8	3.0
18	154	10	4.2	162	14	6.1	139	8	3.0
19	156	10	4.2	157	14	5.9	139	7	2.6
20	162	10	4.4	157	14	5.9	139	7	2.6
21	163	11	4.8	157	13	5.5	139	7	2.6
22	162	11	4.8	157	13	5.5	139	7	2.6
23	158	11	4.7	157	13	5.5	138	6	2.2
24	156	11	4.6	157	13	5.5	134	6	2.2
25	151	11	4.5	157	12	5.1	131	6	2.1
26	143	11	4.2	157	12	5.1	130	6	2.1
27	140	11	4.2	157	12	5.1	130	6	2.1
28	141	11	4.2	157	12	5.1	130	6	2.1
29	144	12	4.7	157	12	5.1	130	6	2.1
30	147	12	4.8	157	11	4.7	117	6	1.9
31	154	12	5.0	157	11	4.7	---	---	---
TOTAL	5019	---	146.3	4870	---	167.4	4206	---	93.6
YEAR	1131580		1550283						

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.
						% FINER THAN .004 MM	% FINER THAN .008 MM	% FINER THAN .016 MM
NOV 06...	1220	15.0	661	25	45	--	--	--
DEC 05...	1220	11.5	1020	12	33	--	--	--
JAN 21...	1300	10.0	6630	228	4080	37	45	55
MAR 18...	1120	12.0	2510	54	366	--	--	--
APR 24...	1030	16.0	1130	15	46	--	--	--
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.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.
DATE	TIME	TEMPERATURE, WATER (DEG C)	STREAM- FLOW, INSTANTANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	% FINER THAN .004 MM	% FINER THAN .008 MM	% FINER THAN .016 MM
NOV 06...		--	99	100	--	--	--	--
DEC 05...		--	89	94	100	--	--	--
JAN 21...		67	81	92	99	100	--	--
MAR 18...		--	74	90	94	96	97	100
APR 24...		--	95	100	--	--	--	--

## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
AUG							
18...	1350	1	164	--	1	4	15
18...	1355	1	164	--	1	4	18
18...	1400	1	164	1	2	4	18
18...	1405	1	164	1	2	3	10
18...	1410	1	164	1	3	32	96
DATE	TIME	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
AUG							
18...		17	20	33	56	81	100
18...		28	32	44	63	84	100
18...		25	27	35	52	72	100
18...		14	20	42	66	87	100
18...		99	100	--	--	--	--

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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				APR			
18...	--	5	2.6	24...	--	15	5.1
18...	1245	--	1.5	24...	1000	--	7.0
NOV				24...	1030	15	--
06...	--	25	18	MAY			
06...	1200	--	10	20...	--	16	4.2
06...	1220	25	--	20...	1300	--	5.6
21...	--	66	25	JUN			
DEC				13...	--	14	3.4
05...	--	12	8.2	16...	--	12	3.5
05...	1145	--	8.9	17...	--	15	2.6
05...	1220	12	--	19...	--	17	3.1
JAN				20...	--	18	3.8
15...	--	657	330	23...	--	12	2.8
21...	--	228	100	24...	--	24	3.4
21...	1230	--	72	25...	--	12	2.2
21...	1300	228	--	25...	1110	--	3.2
FEB				26...	--	18	2.0
06...	--	34	20	28...	--	10	2.0
08...	--	25	14	30...	--	29	1.0
12...	--	33	16	JUL			
18...	--	1190	640	02...	--	10	2.0
20...	--	523	260	16...	--	10	3.0
20...	1345	--	170	16...	1120	--	2.8
21...	--	826	360	AUG			
MAR				14...	1000	--	3.0
06...	--	301	120	18...	--	14	1.0
09...	--	144	55	18...	1225	--	4.7
10...	--	102	45	SEP			
11...	--	118	35	24...	--	6	2.0
13...	--	63	27	24...	1220	--	.40
16...	--	66	29				
18...	1100	--	12				
18...	1120	54	20				
18...	1605	46	13				
23...	--	40	10				
28...	--	20	5.3				
29...	--	38	5.2				
30...	--	20	3.2				
31...	--	22	2.7				
APR							
07...	--	58	23				



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.

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.

AVERAGE DISCHARGE.--18 years, 320 ft<sup>3</sup>/s (9.062 m<sup>3</sup>/s), 231,800 acre-ft/yr (286 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,300 ft<sup>3</sup>/s (858 m<sup>3</sup>/s) Jan. 16, 1974, gage height, 17.41 ft (5.307 m), from rating curve extended above 9,600 ft<sup>3</sup>/s (272 m<sup>3</sup>/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 ft<sup>3</sup>/s (0.065 m<sup>3</sup>/s) Sept. 16, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s), and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	(m <sup>3</sup> /s)	Gage height (ft)	(m)
Jan. 13	1515	*13600	385	12.68	3.865
Feb. 17	2030	9420	267	11.21	3.417

Minimum daily discharge, 10 ft<sup>3</sup>/s (0.283 m<sup>3</sup>/s) several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	34	170	1190	150	753	122	99	53	31	18	13
2	10	34	153	731	140	631	118	95	51	29	18	13
3	10	84	139	527	165	581	114	93	49	28	18	13
4	10	135	124	414	160	542	171	90	52	28	17	12
5	10	130	114	339	149	998	888	88	54	28	17	11
6	10	936	108	288	147	870	486	85	50	27	17	11
7	10	1030	102	255	140	699	368	83	48	27	17	11
8	10	375	96	228	135	575	305	81	47	27	17	11
9	11	215	90	219	130	485	281	100	46	27	17	11
10	11	156	86	229	126	418	244	105	45	26	17	11
11	11	125	82	605	123	371	219	87	44	25	16	11
12	10	103	78	6910	120	327	198	81	44	24	15	11
13	10	89	75	8830	116	303	182	79	43	24	16	11
14	11	79	72	5760	114	325	174	77	42	24	15	10
15	15	72	70	3320	125	316	162	74	41	23	15	10
16	14	888	68	2460	284	275	152	72	40	22	15	10
17	13	1420	65	1960	3820	258	142	69	39	22	15	10
18	13	517	64	1290	4300	247	135	67	38	22	15	10
19	39	319	108	898	2780	228	129	66	38	22	14	10
20	42	234	172	659	2150	212	157	65	37	21	14	11
21	33	186	415	526	3080	204	181	64	37	21	14	11
22	27	285	266	437	2580	191	168	61	36	21	14	11
23	177	488	818	370	1750	180	148	60	35	20	14	10
24	120	391	2110	328	1190	171	134	60	35	20	14	10
25	697	397	1230	297	937	171	126	59	34	20	14	10
26	186	525	678	267	766	162	121	58	34	19	13	11
27	96	380	478	240	815	152	116	57	33	19	13	11
28	66	294	367	220	1300	144	111	56	32	19	13	11
29	50	235	300	200	949	137	107	55	32	18	13	11
30	42	195	1310	185	---	131	103	54	32	18	13	10
31	38	---	2080	165	---	126	---	53	---	18	13	---
TOTAL	1813	10351	12088	40347	28741	11183	6062	2293	1241	720	471	327
MEAN	58.5	345	390	1302	991	361	202	74.0	41.4	23.2	15.2	10.9
MAX	697	1420	2110	8830	4300	998	888	105	54	31	18	13
MIN	10	34	64	165	114	126	103	53	32	18	13	10
AC-FT	3600	20530	23980	80030	57010	22180	12020	4550	2460	1430	934	649
CAL YR 1979	TOTAL	87223	MEAN	239	MAX	3810	MIN	10	AC-FT	173000		
WTR YR 1980	TOTAL	115637	MEAN	316	MAX	8830	MIN	10	AC-FT	229400		

## NAVARRO RIVER BASIN

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 mi<sup>2</sup> (785 km<sup>2</sup>).

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. No regulation or diversion above station.

AVERAGE DISCHARGE.--30 years, 517 ft<sup>3</sup>/s (14.64 m<sup>3</sup>/s), 374,600 acre-ft/yr (462 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,500 ft<sup>3</sup>/s (1,830 m<sup>3</sup>/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 ft<sup>3</sup>/s (538 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.23 ft<sup>3</sup>/s (0.007 m<sup>3</sup>/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.--Peak discharges above base of 7,000 ft<sup>3</sup>/s (198 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 13	1915	*25600	725	26.83	8.178	Feb. 21	0915	8150	231	14.93	4.551
Feb. 18	0100	15300	433	21.12	6.437						

Minimum daily discharge, 4.4 ft<sup>3</sup>/s (0.125 m<sup>3</sup>/s) Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	43	269	2040	277	1670	200	157	61	30	9.4	9.0
2	5.6	44	229	1250	259	1400	193	147	58	30	9.0	8.8
3	5.0	72	192	1000	260	1360	183	144	58	30	8.7	8.0
4	5.1	127	166	790	266	1280	206	138	58	30	9.2	7.6
5	4.8	122	146	638	254	2890	956	130	66	30	9.9	7.6
6	4.8	531	135	533	254	3110	711	124	64	29	10	7.6
7	4.8	1640	126	462	237	2190	591	117	60	29	11	7.6
8	4.4	657	118	410	226	1620	494	115	56	29	11	8.4
9	4.4	340	108	383	212	1230	461	125	53	29	11	9.0
10	4.6	212	102	441	202	998	419	156	51	28	11	9.0
11	5.3	148	95	601	196	827	372	128	50	27	10	8.3
12	6.2	118	89	12800	191	694	332	116	50	26	10	7.4
13	7.1	100	83	18400	183	602	299	110	52	25	10	7.8
14	17	90	79	10900	182	665	279	108	49	25	9.3	8.0
15	27	84	75	6230	191	721	266	104	48	25	10	7.4
16	20	969	72	4770	408	560	248	97	49	24	9.2	7.2
17	21	1850	69	3750	5550	508	231	93	46	21	10	7.3
18	21	600	67	2520	12700	490	218	90	39	18	9.4	7.3
19	43	330	81	1800	8780	448	206	86	36	17	9.1	7.4
20	70	250	108	1330	5300	420	215	83	34	19	8.4	8.3
21	54	210	378	1030	6650	404	353	81	35	18	8.9	8.5
22	48	280	372	813	4980	368	334	79	37	18	8.7	8.2
23	85	470	548	659	3290	339	281	77	36	17	8.8	7.7
24	125	415	3590	564	2240	311	249	76	35	16	9.2	7.8
25	801	460	2450	508	1700	318	229	73	31	15	9.7	7.8
26	351	610	1460	462	1310	301	219	72	30	15	11	7.4
27	144	550	980	420	1380	268	204	71	30	14	9.6	7.6
28	90	470	707	380	2900	247	191	69	33	14	9.6	7.5
29	66	400	550	350	2130	230	176	69	32	13	9.0	7.3
30	53	325	2570	320	---	217	163	65	31	12	9.0	7.8
31	46	---	3210	296	---	208	---	63	---	11	9.0	---
TOTAL	2150.3	12517	19224	76850	62708	26894	9479	3163	1368	684	298.1	236.6
MEAN	69.4	417	620	2479	2162	868	316	102	45.6	22.1	9.62	7.89
MAX	801	1850	3590	18400	12700	3110	956	157	66	30	11	9.0
MIN	4.4	43	67	296	182	208	163	63	30	11	8.4	7.2
AC-FT	4270	24830	38130	152400	124400	53340	18800	6270	2710	1360	591	469
CAL YR 1979	TOTAL	136566.8	MEAN	374	MAX	6390	MIN	3.9	AC-FT	270900		
WTR YR 1980	TOTAL	215572.0	MEAN	589	MAX	18400	MIN	4.4	AC-FT	427600		

## 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 mi<sup>2</sup> (275 km<sup>2</sup>).

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.--29 years, 212 ft<sup>3</sup>/s (6.004 m<sup>3</sup>/s), 153,600 acre-ft/yr (189 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,600 ft<sup>3</sup>/s (753 m<sup>3</sup>/s) Mar. 29, 1974, gage height, 27.14 ft (8.272 m), from rating curve extended above 4,500 ft<sup>3</sup>/s (127 m<sup>3</sup>/s) on basis of slope-conveyance study; minimum daily, 0.79 ft<sup>3</sup>/s (0.022 m<sup>3</sup>/s) Sept. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,100 ft<sup>3</sup>/s (229 m<sup>3</sup>/s) Jan. 13 (1745 hrs), gage height, 17.49 ft (5.331 m), no other peak above base of 2,400 ft<sup>3</sup>/s (68 m<sup>3</sup>/s); minimum daily, 3.0 ft<sup>3</sup>/s (0.085 m<sup>3</sup>/s) Oct. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	19	160	760	117	769	108	87	36	18	8.5	11
2	3.1	34	136	527	111	603	104	81	34	18	8.2	4.4
3	3.0	210	116	391	154	500	99	72	33	17	8.0	4.3
4	3.0	171	96	303	152	447	118	73	34	17	8.1	4.3
5	3.0	153	84	246	138	801	260	71	35	17	8.1	4.5
6	3.1	332	77	205	132	1210	305	68	33	17	8.3	4.5
7	3.1	588	73	178	121	914	295	65	31	17	8.2	4.6
8	3.3	314	67	156	115	671	258	63	28	17	7.9	5.1
9	3.4	189	61	149	108	512	240	78	28	16	7.8	4.4
10	3.5	129	58	181	101	413	206	81	28	16	7.5	4.4
11	3.6	95	55	239	98	344	183	68	28	15	7.2	4.3
12	3.8	74	50	2600	94	284	163	64	28	15	6.9	4.2
13	4.1	61	48	5470	90	263	146	60	28	15	6.7	4.3
14	5.3	52	45	3340	87	412	141	58	27	15	6.6	4.3
15	11	46	44	1790	88	507	131	56	26	14	6.5	4.2
16	7.1	312	42	1240	110	434	120	53	25	14	6.4	4.2
17	5.6	693	41	1030	845	382	112	51	26	13	6.2	4.2
18	6.5	420	39	847	1980	338	104	49	24	13	6.0	4.2
19	43	268	45	669	2090	290	98	48	23	13	5.8	4.4
20	60	193	52	522	1520	253	139	47	23	12	5.6	4.4
21	40	147	83	420	1360	235	183	45	23	12	5.6	4.4
22	42	208	103	344	1280	208	187	44	22	12	5.4	4.4
23	75	479	122	281	1010	188	170	43	22	12	5.4	4.3
24	67	563	422	242	738	171	151	42	21	11	5.3	4.1
25	290	664	648	216	559	170	138	41	22	11	5.1	4.0
26	129	646	568	196	442	154	128	40	21	11	5.1	3.8
27	63	469	407	175	498	142	118	39	20	10	4.9	3.8
28	42	332	295	161	1290	132	108	38	20	9.7	4.7	4.7
29	30	246	229	148	1050	123	100	37	19	9.5	4.6	4.2
30	24	193	329	135	---	117	93	36	19	9.0	4.5	4.2
31	21	---	1070	125	---	113	---	36	---	8.5	4.3	---
TOTAL	1004.8	8300	5665	23286	16478	12100	4706	1734	787	424.7	199.4	136.1
MEAN	32.4	277	183	751	568	390	157	55.9	26.2	13.7	6.43	4.54
MAX	290	693	1070	5470	2090	1210	305	87	36	18	8.5	11
MIN	3.0	19	39	125	87	113	93	36	19	8.5	4.3	3.8
AC-FT	1990	16460	11240	46190	32680	24000	9330	3440	1560	842	396	270
CAL YR 1979 TOTAL	53200.8			MEAN 146	MAX 1800	MIN 3.0	AC-FT 105500					
WTR YR 1980 TOTAL	74821.0			MEAN 204	MAX 5470	MIN 3.0	AC-FT 148400					

## MATTOLE RIVER BASIN

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 mi<sup>2</sup> (622 km<sup>2</sup>).

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 km<sup>2</sup>) above station.

AVERAGE DISCHARGE.--32 years, 1,345 ft<sup>3</sup>/s (38.09 m<sup>3</sup>/s) 974,500 acre-ft/yr (1.20 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,400 ft<sup>3</sup>/s (2,560 m<sup>3</sup>/s) Dec. 23, 1955, gage height, 29.60 ft (9.022 m) site and datum then in use, from rating curve extended above 26,000 ft<sup>3</sup>/s (736 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 17 ft<sup>3</sup>/s (0.48 m<sup>3</sup>/s) Sept. 5, 15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)				
Oct. 25	0415	17200	487	13.39	4.081	Feb. 19	0700	17900	507	13.60	4.145
Jan. 14	1630	17200	487	13.39	4.081	Mar. 14	1215	*18500	524	13.79	4.203

Minimum daily discharge, 26 ft<sup>3</sup>/s (0.74 m<sup>3</sup>/s) Sept. 15-18, 25-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	504	1130	4170	684	3830	790	543	207	109	51	32
2	35	609	1030	3040	664	2980	732	513	207	106	47	31
3	35	2300	925	2320	1800	2330	718	486	203	103	47	31
4	35	2250	842	1830	1460	1960	1550	460	199	100	47	31
5	35	2230	781	1570	1060	3880	3410	445	203	100	47	31
6	35	3910	730	1370	1100	3710	2640	425	195	100	47	29
7	35	5300	689	1180	964	2770	1990	408	188	100	47	28
8	34	2770	647	1080	897	2190	1620	394	188	97	47	28
9	34	1780	610	1190	837	1860	2180	548	181	94	44	28
10	33	1360	579	1350	789	1630	1700	577	177	94	43	27
11	33	1110	547	2970	750	1440	1460	439	170	94	43	27
12	33	938	521	13400	714	1260	1310	403	170	88	40	28
13	35	823	497	12000	674	2440	1180	382	170	86	39	28
14	110	741	475	14400	649	12200	1160	363	170	83	39	27
15	141	678	459	9950	645	7160	1060	347	162	81	40	26
16	112	2150	444	6430	822	4180	948	333	154	79	40	26
17	78	2560	423	4890	5560	3040	867	318	150	76	37	26
18	77	1960	443	3660	11500	2440	826	308	142	72	38	26
19	746	1530	1330	2780	14400	1870	774	296	135	70	38	27
20	596	1260	2090	2190	8180	1640	914	286	135	70	36	30
21	545	1110	2020	1820	5410	1720	1530	278	131	66	35	31
22	993	2870	1470	1560	4010	1460	1210	271	128	66	36	30
23	950	3670	2490	1390	3030	1310	987	278	128	62	36	28
24	2960	4820	6940	1250	2790	1200	888	301	125	62	36	27
25	9550	4780	5340	1160	3260	1300	811	273	128	60	35	26
26	2140	3960	3860	1050	3110	1180	758	257	121	60	34	26
27	1220	2590	2750	956	6230	1060	702	245	118	58	35	27
28	909	1960	2010	883	7950	982	654	237	115	57	35	27
29	716	1560	1570	820	5480	915	612	232	112	57	34	27
30	627	1290	2230	768	---	859	578	224	108	53	33	27
31	576	---	5000	718	---	813	---	215	---	53	33	---
TOTAL	23493	65373	50872	104145	95419	77609	36559	11085	4720	2456	1239	843
MEAN	758	2179	1641	3360	3290	2504	1219	358	157	79.2	40.0	28.1
MAX	9550	5300	6940	14400	14400	12200	3410	577	207	109	51	32
MIN	33	504	423	718	645	813	578	215	108	53	33	26
AC-FT	46600	129700	100900	206600	189300	153900	72510	21990	9360	4870	2460	1670
CAL YR 1979	TOTAL	381471	MEAN	1045	MAX	13400	MIN 33	AC-FT	756600			
WTR YR 1980	TOTAL	473813	MEAN	1295	MAX	14400	MIN 26	AC-FT	939800			

## 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 mi<sup>2</sup> (749 km<sup>2</sup>).

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 hm<sup>3</sup>) 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 m<sup>3</sup>); 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 hm<sup>3</sup>) 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 m<sup>3</sup>) Dec. 9, 10, 1931, gage height, 1,822.5 ft (555.50 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 86,340 acre-ft (106 hm<sup>3</sup>) May 1, gage height, 1,909.80 ft (582.107 m); minimum, 30,300 acre-ft (37.4 hm<sup>3</sup>) Oct. 22, gage height, 1,876.46 ft (571.945 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 1979 TO SEPTEMBER 1980  
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42513	35883	56203	71121	66724	68599	68698	86289	82372	76022	67989	57852
2	41947	35518	56135	68896	66645	68185	69055	86289	82150	75833	67716	57660
3	41350	35429	56083	68165	66891	67950	68955	86154	82038	75643	67421	57365
4	40849	35744	55741	67697	67903	67950	69115	86087	81928	75432	67110	56964
5	40150	35921	55399	67501	66724	68698	72338	85995	81772	75221	66724	56290
6	39703	36657	55195	67421	66819	68935	74174	85816	81574	74948	66452	55622
7	38815	37887	54753	67321	66724	68500	76212	85682	81400	74654	66164	54974
8	38124	38776	54430	67265	66491	68146	77415	85479	81225	74320	65741	54447
9	37484	38575	54903	67167	66471	68009	78269	85320	81072	74049	65299	53773
10	36849	38403	53453	67501	66357	67853	79524	85095	80920	73841	64841	53119
11	36135	38137	52985	67520	66395	67597	80004	84985	80636	73738	64254	52492
12	35492	37809	52540	78291	66338	67401	80964	85164	80396	73490	63727	51983
13	34969	37083	52065	81204	66145	67219	80986	85051	80200	73242	63151	51411
14	34361	36579	51493	75833	66145	67637	82350	84939	80004	72994	62191	50697
15	33761	35970	51024	72418	66105	68265	82660	84760	79742	72641	62061	49888
16	33123	37161	50448	72194	66645	67793	83126	84579	79502	72418	61859	49202
17	32577	43026	49984	71120	70919	67539	83460	84398	79328	72174	61620	48713
18	31975	43184	49345	69955	75622	67501	83770	84218	79004	71990	61941	48089
19	31727	44680	48949	69195	78206	67324	84062	83970	78678	71726	61181	47443
20	31333	44780	48533	68717	72687	67303	84310	83814	78357	71463	61053	46786
21	30883	44694	49297	68401	71484	66993	84535	83682	78033	71110	60817	46135
22	30507	44840	49968	68029	71120	67050	85254	83570	77736	70979	60671	45640
23	30723	47290	50128	67853	70075	67031	85435	83470	77446	70678	60473	45049
24	31148	48351	53421	67617	69255	67167	85816	82860	77310	70416	60239	44346
25	35744	48492	58452	67401	68677	67597	85806	83104	77120	69975	59983	43688
26	37096	53421	60890	67205	68639	67813	86040	83100	76920	69715	59735	43226
27	36980	54770	62411	67090	68383	68225	86110	82994	76803	69415	59537	42569
28	37006	55587	63096	67050	69475	68619	86220	82794	76592	69115	59163	41919
29	36780	55998	63506	66877	68955	68599	86289	82116	76402	68817	58789	41350
30	36416	56186	68679	66838	---	68698	86289	82704	76233	68599	58418	40558
31	36035	---	71261	66781	---	68777	---	82594	---	68245	58224	---
MAX	42513	56186	71261	81204	78206	68935	86289	86289	82372	76022	67989	57852
MIN	30507	35429	48533	66781	66105	66993	68698	82116	76233	68245	58224	40558
(†)	1881.20	1894.73	1902.79	1900.53	1901.64	1901.55	1909.78	1908.13	1905.19	1901.28	1895.90	1884.63
(‡)	-7150	+20200	+15100	-4480	+2170	-178	+17500	-3700	-6360	-7990	-10000	-17700

CAL YR 1979 MAX 87680 MIN 7349 ‡ +63900  
WTR YR 1980 MAX 86289 MIN 30507 ‡ -2630

† Gage height, in feet, at end of month.

‡ Change in contents, in acre-feet, rounded to Geological Survey standards.

## EEL RIVER BASIN

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 mi<sup>2</sup> (751 km<sup>2</sup>).

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.--58 years, 547 ft<sup>3</sup>/s (15.49 m<sup>3</sup>/s), 396,300 acre-ft/yr (489 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,300 ft<sup>3</sup>/s (1,590 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 24.24 ft (7.388 m), from floodmarks, from rating curve extended above 9,400 ft<sup>3</sup>/s (266 m<sup>3</sup>/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 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) Sept. 8, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,700 ft<sup>3</sup>/s (728 m<sup>3</sup>/s) Jan. 13, gage height, 16.55 ft (5.044 m); minimum daily, 14 ft<sup>3</sup>/s (0.40 m<sup>3</sup>/s) Dec. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	307	231	323	3800	508	1930	367	343	218	150	157	154
2	313	223	338	2280	480	1650	372	343	212	151	161	154
3	316	199	345	1520	496	1480	372	340	202	151	165	154
4	316	196	344	1120	528	1340	363	336	220	151	165	240
5	314	216	347	956	491	2030	266	332	240	150	164	315
6	311	153	354	887	469	2550	217	328	232	150	164	330
7	310	121	358	864	435	2050	160	323	221	150	164	330
8	308	199	366	812	400	1660	209	323	212	149	199	328
9	307	299	366	785	381	1410	223	309	213	150	230	328
10	307	354	366	971	365	1240	245	293	213	151	245	329
11	309	360	371	1480	351	1130	291	285	213	150	281	328
12	313	360	371	15600	347	1030	311	285	215	151	299	327
13	313	359	368	22300	358	954	313	287	217	152	319	326
14	312	363	366	14400	372	1070	313	291	217	152	319	325
15	312	372	370	7400	367	1590	321	281	218	154	115	324
16	310	205	371	5790	604	1320	326	275	220	155	111	323
17	311	131	371	4660	4240	1120	330	271	223	155	107	322
18	312	268	369	3470	11400	1010	334	271	221	155	107	322
19	305	280	362	2530	12500	911	338	242	220	156	107	320
20	280	310	335	1950	7360	837	338	228	218	157	107	319
21	280	340	290	1580	5570	786	326	215	218	159	107	318
22	262	318	301	1300	4660	716	330	217	217	159	108	317
23	109	251	254	1100	3770	637	343	217	185	159	110	316
24	100	269	82	971	2780	513	345	217	161	159	110	315
25	130	246	14	886	2310	360	345	218	146	156	110	314
26	174	158	79	802	1990	358	349	215	145	151	110	316
27	211	231	181	738	1890	358	345	217	149	151	140	319
28	206	225	260	674	2840	365	347	217	150	151	166	317
29	209	281	289	620	2400	367	349	217	149	150	165	316
30	216	316	1360	576	---	374	347	215	149	145	161	315
31	224	---	4860	537	---	372	---	217	---	146	103	---
TOTAL	8307	7834	15131	103359	70662	33518	9435	8368	6034	4726	5076	9061
MEAN	268	261	488	3334	2437	1081	315	270	201	152	164	302
MAX	316	372	4860	22300	12500	2550	372	343	240	159	319	330
MIN	100	121	14	537	347	358	160	215	145	145	103	154
AC-FT	16480	15540	30010	205000	140200	66480	18710	16600	11970	9370	10070	17970
CAL YR 1979 TOTAL	125195.6		MEAN 343	MAX 4860	MIN 4.6	AC-FT 248300						
WTR YR 1980 TOTAL	281511.0		MEAN 769	MAX 22300	MIN 14	AC-FT 558400						



## BEL RIVER BASIN

11471500 BEL 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 mi<sup>2</sup> (904 km<sup>2</sup>).

PERIOD OF RECORD.--November 1909 to September 1922 (combined monthly discharge only, of Bel 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 Bel 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 Bel 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 Bel River at Van Arsdale Dam and Potter Valley powerhouse tailrace).--71 years (water years 1910-80), 641 ft<sup>3</sup>/s (18.15 m<sup>3</sup>/s), 464,400 acre-ft/yr (573 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,100 ft<sup>3</sup>/s (1,820 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 33.9 ft (10.33 m), from floodmarks; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,300 ft<sup>3</sup>/s (716 m<sup>3</sup>/s) Jan. 13, gage height, 22.09 ft (6.733 m); minimum daily, 6.9 ft<sup>3</sup>/s (0.20 m<sup>3</sup>/s) Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	9.5	100	4430	289	2210	149	105	16	10	6.9	9.3
2	8.1	16	105	2500	252	1880	144	104	13	10	9.5	9.3
3	8.9	21	107	1720	293	1690	135	104	9.8	9.5	15	9.5
4	9.5	20	102	1210	309	1510	197	104	9.8	9.5	26	10
5	10	43	100	938	276	2560	623	100	13	9.5	42	7.9
6	9.8	119	100	817	239	3140	338	97	14	9.5	68	9.3
7	9.5	19	102	754	203	2350	163	90	13	9.5	71	11
8	8.3	20	105	670	160	1930	135	88	12	9.5	81	12
9	8.3	92	100	640	142	1650	135	115	11	9.5	131	13
10	8.3	100	98	938	121	1370	115	100	9.8	9.5	137	15
11	8.6	102	109	1730	107	1230	146	88	8.9	9.5	168	17
12	8.6	98	105	18300	90	1150	149	66	8.9	9.5	194	16
13	8.9	95	100	24000	90	1220	149	66	8.9	9.0	202	16
14	8.1	88	98	18300	109	1600	125	63	8.9	9.0	235	16
15	8.1	98	92	10600	117	1830	125	60	8.6	9.0	54	15
16	8.1	605	102	8160	296	1430	131	49	9.2	9.0	24	15
17	8.1	153	102	5680	4090	1140	127	45	9.5	9.0	61	15
18	8.1	133	102	4090	14300	1050	127	43	9.5	8.8	9.8	15
19	8.6	84	117	2900	16800	853	131	40	9.5	8.8	9.3	15
20	9.2	82	131	2220	9410	734	133	50	9.2	9.3	9.3	15
21	9.2	92	229	1740	7600	658	131	29	8.9	9.3	11	15
22	11	220	123	1400	5760	583	129	28	8.6	9.3	12	15
23	12	133	186	1100	4120	494	131	27	11	9.3	11	15
24	17	200	566	930	3020	383	125	27	13	9.3	11	15
25	341	115	303	803	2700	194	129	27	13	9.3	11	15
26	18	303	125	689	2240	168	119	25	12	9.3	11	15
27	26	151	121	594	2030	163	115	24	12	9.3	11	15
28	10	53	140	504	3530	163	115	22	11	9.8	13	15
29	10	56	149	421	2740	163	111	20	11	10	12	15
30	10	104	1620	372	---	163	109	14	11	9.0	10	15
31	9.8	---	6280	334	---	158	---	13	---	7.5	9.8	---
TOTAL	646.7	3424.5	11919	119484	81433	35817	4691	1833	324.0	288.3	1676.6	411.3
MEAN	20.9	114	384	3854	2808	1155	156	59.1	10.8	9.30	54.1	13.7
MAX	341	605	6280	24000	16800	3140	623	115	16	10	235	17
MIN	7.6	9.5	92	334	90	158	109	13	8.6	7.5	6.9	7.9
AC-FT	1280	6790	23640	237000	161500	71040	9300	3640	643	572	3330	816
CAL YR 1979 TOTAL	71928.7				6280		2.2	AC-FT	142700			
WTR YR 1980 TOTAL	261948.4				24000		6.9	AC-FT	519600			



## 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 mi<sup>2</sup> (1,368 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

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.--14 years, 962 ft<sup>3</sup>/s (27.24 m<sup>3</sup>/s), 697,000 acre-ft/yr (859 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,500 ft<sup>3</sup>/s (1,850 m<sup>3</sup>/s) Jan. 16, 1974, gage height, 33.64 ft (10.253 m), from rating curve extended above 26,000 ft<sup>3</sup>/s (736 m<sup>3</sup>/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 ft<sup>3</sup>/s (2,830 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49,800 ft<sup>3</sup>/s (1,410 m<sup>3</sup>/s) Jan. 13, gage height, 28.34 ft (8.638 m); minimum daily, 6.9 ft<sup>3</sup>/s (0.195 m<sup>3</sup>/s) Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	38	298	5050	519	3180	320	261	58	29	10	12
2	10	104	264	2970	468	2660	313	245	57	27	10	11
3	9.7	351	240	2050	643	2340	302	235	57	28	8.4	11
4	9.4	439	219	1520	619	2140	355	228	59	28	6.9	8.8
5	9.1	444	201	1220	527	4250	1530	222	63	27	14	8.1
6	8.8	1470	193	1040	475	4740	1380	212	61	26	33	8.1
7	8.5	1440	188	944	409	3420	883	209	57	26	74	8.8
8	9.6	528	179	844	354	2640	619	216	55	26	74	8.1
9	9.8	312	176	808	316	2180	586	212	49	25	91	8.1
10	9.7	235	168	1280	284	1860	506	235	47	25	141	11
11	9.7	189	162	2410	258	1620	460	188	47	25	155	11
12	10	168	163	27700	239	1410	426	168	47	24	188	12
13	10	153	159	42400	222	1290	400	165	45	23	203	14
14	11	142	153	27600	230	2470	382	152	45	23	222	14
15	15	135	150	14100	257	2510	373	141	45	22	219	14
16	15	2140	145	9700	570	2000	348	129	40	20	69	12
17	13	2100	146	8010	7290	1670	331	115	38	19	28	12
18	12	843	145	5660	19400	1480	316	112	38	18	67	14
19	34	508	181	4030	21600	1260	310	104	38	18	34	16
20	69	348	239	2980	13500	1110	363	104	37	16	16	14
21	59	266	821	2390	10400	1010	437	111	37	15	11	14
22	38	961	598	1970	8390	896	364	83	35	15	9.0	14
23	149	1440	1240	1620	6120	778	334	78	34	15	8.8	14
24	164	1410	3720	1370	4320	650	313	79	32	14	10	14
25	1690	1600	2560	1190	3370	492	298	84	37	14	11	12
26	372	1830	1460	1050	2810	422	288	86	38	14	10	12
27	132	886	875	924	3180	391	295	81	38	13	9.6	12
28	95	549	619	824	5960	372	287	78	38	12	9.6	11
29	63	384	518	732	4190	360	277	74	36	12	9.6	11
30	50	340	2290	651	---	362	267	70	32	9.6	11	11
31	43	---	6890	576	---	338	---	65	---	10	12	---
TOTAL	3148.3	21753	25360	175613	116920	52301	13663	4542	1340	618.6	1774.9	353.0
MEAN	102	725	818	5665	4032	1687	455	147	44.7	20.0	57.3	11.8
MAX	1690	2140	6890	42400	21600	4740	1530	261	63	29	222	16
MIN	8.5	38	145	576	222	338	267	65	32	9.6	6.9	8.1
AC-FT	6240	43150	50300	348300	231900	103700	27100	9010	2660	1230	3520	700
CAL YR 1979	TOTAL	171991.9	MEAN	471	MAX	8650	MIN	4.4	AC-FT	341100		
WTR YR 1980	TOTAL	417386.8	MEAN	1140	MAX	42400	MIN	6.9	AC-FT	827900		

## EEL RIVER BASIN

11472150 EEL RIVER NEAR DOS RIOS, 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 1967-77.

SEDIMENT RECORDS: Water years 1967-77.

TURBIDITY: Water years 1967-68.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1966 to September 1977.

SEDIMENT RECORDS: October 1966 to September 1977.

REMARKS.--During period 1958 to September 1966, chemical-quality station located at lat 39°37'36", long 123°20'36".  
Flow partly regulated by Lake Pillsbury and by diversion through Potter Valley powerhouse.

COOPERATION.--Chemical-quality data were furnished by California of Water Resources.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT 03...	0835	7.0	236	8.1	19.0	.00	8.4	110	--	--	9.0	--
NOV 07...	0955	1480	114	7.6	12.0	75	10.1	46	12	4.0	5.0	--
DEC 06...	0945	182	--	7.8	7.5	2.0	11.6	--	--	--	--	--
JAN 10...	1115	1350	--	8.3	8.0	21	11.5	--	--	--	--	--
FEB 06...	1200	390	--	8.0	9.0	28	11.0	--	--	--	--	--
MAR 05...	1330	4610	115	7.5	9.0	165	11.3	46	12	4.0	4.0	16
APR 09...	0950	605	--	--	--	--	--	--	--	--	--	--
MAY 06...	1240	1780	--	--	--	--	--	--	--	--	--	--
07...	0930	200	191	8.1	16.5	2.0	9.4	84	22	7.0	6.0	13
JUN 05...	0850	--	--	8.3	16.5	1.0	10.0	--	--	--	--	--
JUL 10...	0830	--	--	8.1	20.5	1.0	8.4	--	--	--	--	--
AUG 21...	0950	--	--	8.2	23.0	.00	8.3	--	--	--	--	--
SEP 17...	0840	12	232	8.1	17.5	1.0	9.0	98	26	8.0	8.0	15

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	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, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL. (MG/L AS P)
OCT 03...	.4	--	6.0	--	--	--	--	.01	.00	.20	.01	.00
NOV 07...	.3	--	2.0	--	--	--	--	--	--	--	--	--
DEC 06...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 10...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 06...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 05...	.3	.8	1.0	--	--	--	--	.00	.00	.70	.24	.01
APR 09...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 06...	--	--	--	--	--	--	--	--	--	--	--	--
07...	.3	.9	3.0	--	--	--	--	.00	.02	.20	.02	.00
JUN 05...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 10...	--	--	--	--	--	--	--	.00	.01	.20	.01	.00
AUG 21...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 17...	.4	1.1	4.0	120	.16	3.89	.09	.01	.01	.20	.01	.00

11472150 EEL RIVER NEAR DOS RIOS, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	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)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
03...	0	100	400	0	0	0	0	0	0	.0	0	--
NOV												
07...	--	--	300	--	--	--	--	--	--	--	--	8.6
DEC												
06...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
10...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
06...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
05...	0	0	100	0	0	0	20	0	0	.0	0	--
APR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
06...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	8	--	--	--	--	--	--	--	--	--
JUN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
10...	--	--	8	--	--	--	--	--	--	--	--	--
AUG												
21...	--	--	8	--	--	--	--	--	--	--	--	--
SEP												
17...	0	0	300	0	0	0	0	0	0	.0	20	3.6

## EEL RIVER BASIN

11472200 OUTLET CRBEK 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 mi<sup>2</sup> (417 km<sup>2</sup>).

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 except those for period of no gage-height record, July 24 to Aug. 27, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--24 years, 422 ft<sup>3</sup>/s (11.95 m<sup>3</sup>/s), 305,700 acre-ft/yr (377 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,900 ft<sup>3</sup>/s (2,210 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 30.6 ft (9.33 m), from floodmarks, from rating curve extended above 17,000 ft<sup>3</sup>/s (481 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times in 1959, 1967, and 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,000 ft<sup>3</sup>/s (198 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 13	1430	*18900	535	16.78	5.115
Feb. 18	0400	8170	231	10.92	3.328

Minimum daily discharge, 0.63 ft<sup>3</sup>/s (0.018 m<sup>3</sup>/s) Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	29	230	1440	143	1140	125	82	28	7.1	1.5	.87
2	1.2	222	187	870	135	814	121	74	25	6.7	1.4	.78
3	1.2	694	155	573	589	712	106	69	23	6.4	1.3	.75
4	1.2	616	126	448	359	740	174	63	23	6.3	1.3	.75
5	1.2	736	110	385	252	2460	1160	57	24	6.3	1.2	.68
6	1.2	1770	101	345	243	2260	1190	53	24	6.3	1.1	.65
7	1.2	1270	102	289	194	1350	770	50	23	6.1	1.1	.71
8	1.3	685	100	250	169	886	468	48	22	5.9	1.0	.86
9	1.3	471	74	281	150	645	472	72	22	5.7	1.0	.75
10	1.5	288	64	720	136	509	374	100	20	5.5	.96	.75
11	1.6	152	58	2020	127	431	302	82	19	5.1	.92	.75
12	1.6	107	54	10500	119	369	252	65	19	4.7	.90	.75
13	1.6	82	51	14500	111	440	219	57	19	5.1	.88	.75
14	2.5	67	49	7410	107	1860	210	51	19	4.9	.86	.75
15	3.5	57	47	3580	117	1180	204	48	18	3.7	.85	.75
16	3.1	1780	45	2680	520	720	180	45	17	4.1	.84	.75
17	2.5	1410	43	2090	4210	554	156	41	16	3.3	.81	.88
18	3.2	863	43	1380	7090	496	141	38	14	3.3	.78	1.0
19	32	645	79	917	5720	414	130	35	13	3.0	.76	1.0
20	69	485	164	642	3550	366	193	34	12	3.1	.74	.88
21	47	321	652	502	2970	352	268	31	12	2.9	.70	1.0
22	65	1190	512	416	2880	305	237	30	11	2.3	.67	1.0
23	250	1030	1030	349	1700	268	199	29	11	2.0	.66	1.0
24	180	1770	2560	302	1090	234	161	29	10	1.9	.64	.96
25	1420	1830	2410	272	779	230	141	29	10	1.9	.63	1.0
26	383	1410	1410	243	592	224	125	30	9.9	1.8	.64	.75
27	178	805	817	219	1390	199	116	29	9.6	1.8	.65	.65
28	83	495	498	199	3120	180	106	28	9.3	1.7	.66	.75
29	51	354	380	182	1800	161	97	27	8.3	1.7	.65	1.0
30	37	279	1290	164	---	146	88	27	8.2	1.6	.65	1.2
31	33	---	2890	154	---	137	---	27	---	1.5	.73	---
TOTAL	2860.1	21913	16331	54322	40362	20782	8485	1480	499.3	123.7	27.48	25.12
MEAN	92.3	730	527	1752	1392	670	283	47.7	16.6	3.99	.89	.84
MAX	1420	1830	2890	14500	7090	2460	1190	100	28	7.1	1.5	1.2
MIN	1.2	29	43	154	107	137	88	27	8.2	1.5	.63	.65
AC-FT	5670	43460	32390	107700	80060	41220	16830	2940	990	245	55	50
CAL YR 1979	TOTAL	127744.77	MEAN	350	MAX	6580	MIN	.56	AC-FT	253400		
WTR YR 1980	TOTAL	167210.70	MEAN	457	MAX	14500	MIN	.63	AC-FT	331700		

## 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 mi<sup>2</sup> (1,826 km<sup>2</sup>).

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.--Differences between recorder values before adjustment and field measurement values exceeded ±1.0°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, 29.5°C July 27; minimum recorded 4.0°C Jan. 31.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	18.5	14.0	12.5	10.0	9.0	8.5	8.5	6.0	5.0	11.0	10.5
2	21.5	19.0	13.5	12.5	10.0	9.5	8.5	8.0	7.0	6.0	11.0	10.5
3	21.5	19.0	12.5	12.5	9.5	9.0	8.0	7.5	8.5	7.0	11.0	10.5
4	22.0	19.0	12.5	12.0	9.0	8.0	8.0	7.5	9.5	8.5	10.5	10.0
5	21.0	19.0	12.5	12.5	8.5	8.0	8.5	8.0	9.0	8.5	10.0	10.0
6	20.5	18.5	12.5	12.5	8.5	8.0	9.0	8.5	9.5	9.0	10.5	9.5
7	19.5	18.0	13.0	12.5	8.5	8.0	9.0	8.5	9.0	8.0	11.0	10.0
8	18.0	17.5	13.0	12.0	9.0	8.0	8.5	8.5	8.5	7.5	11.0	10.5
9	19.0	17.0	13.0	11.5	9.0	8.5	8.5	8.5	8.5	7.5	11.5	10.5
10	19.0	17.0	12.0	11.0	9.0	8.0	8.5	7.5	8.5	8.0	11.5	10.5
11	19.0	17.0	12.5	11.5	8.0	6.5	8.5	7.0	8.5	8.0	11.0	10.0
12	18.5	16.5	11.5	11.0	6.5	5.5	9.5	8.5	9.0	8.0	10.5	9.5
13	18.0	17.0	11.5	10.5	6.0	5.5	10.0	9.5	9.0	7.5	10.5	10.0
14	18.0	17.5	11.0	10.0	6.0	5.5	10.0	10.0	9.0	8.5	11.0	10.5
15	19.5	17.5	10.5	10.0	6.0	5.0	10.0	9.5	10.0	9.0	10.5	10.0
16	19.0	17.5	11.5	10.5	6.0	5.0	10.0	9.5	10.5	9.5	10.5	9.5
17	18.0	17.0	12.0	11.5	6.0	4.5	10.0	9.5	10.5	10.0	10.5	10.0
18	17.0	16.0	11.5	10.5	6.0	5.0	9.5	8.5	10.0	10.0	11.0	9.5
19	16.0	16.0	10.5	9.5	7.0	6.0	8.5	7.5	10.0	10.0	11.5	10.0
20	16.0	15.0	9.5	9.0	8.0	7.0	8.0	7.5	10.0	9.5	11.5	10.5
21	15.5	14.0	9.0	8.0	8.5	8.0	8.5	7.5	10.0	9.5	11.5	10.5
22	15.0	14.5	8.5	8.5	8.0	7.0	8.5	7.5	10.5	10.0	12.5	10.5
23	15.5	14.5	10.0	8.5	7.0	6.5	8.5	8.0	10.0	9.5	12.5	11.0
24	15.5	15.0	11.0	10.0	7.5	6.5	8.5	7.5	10.5	10.0	12.0	10.5
25	15.5	15.0	11.0	10.0	8.0	7.5	8.5	8.0	11.0	10.5	12.0	11.0
26	15.5	14.0	10.0	9.0	7.5	7.0	8.0	7.0	11.5	11.0	12.0	10.5
27	14.5	14.0	9.0	8.5	7.0	6.5	7.5	6.5	11.5	10.5	12.5	10.5
28	14.5	13.0	9.0	8.0	6.5	6.0	6.5	5.5	11.0	10.0	13.5	11.0
29	13.5	12.0	9.5	8.5	7.0	6.0	6.0	5.0	11.0	10.0	14.0	12.0
30	13.0	12.0	10.0	9.0	8.5	7.0	5.0	4.5	---	---	13.5	12.0
31	13.5	12.5	---	---	9.0	8.5	5.0	4.0	---	---	13.0	11.5
MONTH	22.0	12.0	14.0	8.0	10.0	4.5	10.0	4.0	11.5	5.0	14.0	9.5

[illegible]

## 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 mi<sup>2</sup> (1,930 km<sup>2</sup>).

## 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.--15 years, 1,651 ft<sup>3</sup>/s (46.76 m<sup>3</sup>/s), 1,196,000 acre-ft/yr (1.48 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,500 ft<sup>3</sup>/s (2,560 m<sup>3</sup>/s) Jan. 23, 1970, gage height, 27.15 ft (8.275 m); minimum daily, 3.3 ft<sup>3</sup>/s (0.093 m<sup>3</sup>/s) Aug. 21-23, Sept. 12-14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 61,700 ft<sup>3</sup>/s (1,750 m<sup>3</sup>/s) Jan. 13 (1645 hrs), gage height, 23.75 ft (7.239 m), no other peak above base of 35,000 ft<sup>3</sup>/s (991 m<sup>3</sup>/s); minimum daily, 7.5 ft<sup>3</sup>/s (0.21 m<sup>3</sup>/s) Oct. 6-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	260	1270	5730	1010	4160	1120	1190	394	127	29	11
2	8.1	251	1120	3580	918	3510	1070	1120	388	124	28	11
3	8.1	493	974	2750	4400	3130	1020	1070	371	121	26	11
4	7.9	721	839	2320	3470	2940	1070	1060	362	117	25	11
5	7.6	756	725	2160	2510	5370	3060	1020	399	112	22	11
6	7.5	1930	647	2350	2480	4500	3460	969	363	108	21	11
7	7.5	2900	586	2240	2030	2900	2510	901	337	102	22	11
8	7.6	1420	528	2030	1780	2400	2030	857	320	101	21	11
9	7.9	900	476	1970	1570	2080	2080	871	313	98	19	11
10	7.8	669	426	3050	1410	1940	2300	916	304	94	19	11
11	7.9	530	377	3690	1290	1850	2060	828	297	89	19	11
12	8.3	429	322	34100	1180	1710	1900	800	293	85	18	11
13	9.0	334	289	46000	1070	1660	1880	793	290	81	18	11
14	14	249	272	27000	1010	4250	1900	779	288	78	18	11
15	15	189	251	15700	1050	3970	1830	759	268	75	18	11
16	18	4430	233	10100	1610	2570	1740	713	255	72	17	11
17	19	6190	218	7810	8140	2240	1740	694	247	69	18	11
18	19	2770	201	5820	21400	2100	1700	681	242	64	18	15
19	39	1790	227	4560	20100	1880	1670	675	231	60	17	17
20	409	1350	386	3750	11700	1810	1890	675	222	57	15	15
21	381	1080	1130	3210	8920	1770	2230	669	210	55	14	16
22	153	1800	905	2810	7880	1670	1930	644	199	51	14	16
23	1300	4000	1630	2460	5870	1590	1810	594	188	50	14	16
24	747	3630	5070	2210	4660	1520	1700	571	180	48	13	15
25	7010	4290	3310	2030	4450	1480	1570	549	173	45	12	15
26	1990	5500	2070	1830	4240	1420	1500	509	166	42	12	14
27	897	2990	1570	1640	5820	1320	1450	473	159	41	11	14
28	571	2190	1310	1450	9920	1260	1430	452	148	39	11	14
29	420	1740	1100	1300	5350	1220	1440	434	140	37	11	13
30	334	1470	5030	1150	---	1220	1320	422	133	35	11	13
31	300	---	10600	1090	---	1170	---	403	---	31	12	---
TOTAL	14739.8	57251	44092	207890	147238	72610	54410	23091	7880	2308	543	380
MEAN	475	1908	1422	6706	5077	2342	1814	745	263	74.5	17.5	12.7
MAX	7010	6190	10600	46000	21400	5370	3460	1190	399	127	29	17
MIN	7.5	189	201	1090	918	1170	1020	403	133	31	11	11
AC-FT	29240	113600	87460	412300	292000	144000	107900	45800	15630	4580	1080	754

CAL YR 1979 TOTAL 431371.9 MEAN 1182 MAX 14300 MIN 7.5 AC-FT 855600  
WTR YR 1980 TOTAL 632432.8 MEAN 1728 MAX 46000 MIN 7.5 AC-FT 1254000

## 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,  $35.5^{\circ}\text{C}$  June 20, 1973; minimum recorded,  $0.0^{\circ}\text{C}$  Dec. 22, 1968.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded,  $28.0^{\circ}\text{C}$  July 27-31, Aug. 1, 8; minimum recorded,  $2.5^{\circ}\text{C}$  Jan. 30.





## 11475000 EEL RIVER AT FORT SEWARD, CA

LOCATION.--Lat 40°13'05", long 123°37'54", in SE&NE¼ 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 mi<sup>2</sup> (5,457 km<sup>2</sup>).

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.--25 years, 4,654 ft<sup>3</sup>/s (131.8 m<sup>3</sup>/s), 3,372,000 acre-ft/yr (4.16 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 561,000 ft<sup>3</sup>/s (15,900 m<sup>3</sup>/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 ft<sup>3</sup>/s (3,120 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 72.5 ft (22.10 m); minimum daily, 1.2 ft<sup>3</sup>/s (0.034 m<sup>3</sup>/s) Sept. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 41,000 ft<sup>3</sup>/s (1,160 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 13	2100	*160000 4530	42.79 13.042
Feb. 18	1930	80900 2290	31.11 9.482

Minimum daily discharge, 23 ft<sup>3</sup>/s (0.65 m<sup>3</sup>/s) Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	552	2890	22000	2600	16200	2510	2260	694	254	59	32
2	23	511	2410	14000	2410	13200	2410	2120	663	245	53	32
3	23	2580	2080	9880	11200	11300	2320	2020	643	236	51	31
4	25	4560	1760	7450	10100	10100	2350	1930	633	233	49	32
5	26	4150	1520	6260	6530	17500	7560	1870	638	224	47	32
6	26	8130	1380	5960	5830	21300	10000	1780	658	215	45	32
7	26	12400	1270	5380	4840	15000	8330	1700	618	213	43	31
8	25	5990	1170	4850	4010	11900	5810	1610	589	207	40	30
9	25	3580	1080	4950	3440	9730	5300	1620	560	201	81	28
10	25	2480	988	8080	3040	8330	5540	2060	542	199	92	27
11	25	1790	922	9490	2730	7450	4760	1810	524	190	102	28
12	25	1350	870	83300	2480	6670	4260	1590	510	179	135	27
13	25	1080	818	132000	2270	6460	3910	1500	506	171	147	26
14	28	912	785	106000	2120	14100	3770	1460	497	163	171	28
15	39	795	757	60000	2060	16200	3740	1380	488	155	174	30
16	37	6890	725	36700	2450	11000	3440	1270	467	152	199	31
17	39	18300	699	30000	17700	8970	3190	1180	450	144	163	32
18	55	8800	678	21200	65400	8050	3080	1110	430	137	99	35
19	124	5350	720	15500	74600	6960	2970	1070	414	132	69	37
20	472	3750	1090	12100	51400	6200	3210	1040	394	122	59	38
21	1720	2790	2830	9960	36000	6000	4790	1030	383	117	73	42
22	986	4410	4730	8430	31000	5390	4060	1000	360	112	53	47
23	1490	12700	4120	7210	23500	4790	3520	949	345	104	42	51
24	2720	9790	16100	6280	16700	4300	3210	911	331	97	37	51
25	12800	11700	17000	5580	13900	4010	2970	891	321	92	34	46
26	7410	14100	10800	4990	11900	3690	2770	862	307	88	33	44
27	2760	8620	6840	4400	13700	3280	2640	813	293	85	31	44
28	1540	5870	4980	3880	34300	3030	2530	770	286	82	31	43
29	1030	4350	3930	3440	22300	2840	2470	737	277	74	31	38
30	753	3450	7790	3080	---	2730	2400	709	264	69	31	38
31	615	---	24800	2780	---	2650	---	720	---	61	32	---
TOTAL	34940	171730	128532	655130	480510	269330	119820	41772	14085	4753	2306	1063
MEAN	1127	5724	4146	21130	16570	8688	3994	1347	470	153	74.4	35.4
MAX	12800	18300	24800	132000	74600	21300	10000	2260	694	254	199	51
MIN	23	511	678	2780	2060	2650	2320	709	264	61	31	26
AC-FT	69300	340600	254900	1299000	953100	534200	237700	82850	27940	9430	4570	2110
CAL YR 1979 TOTAL	1155987			3167	MAX 35000	MIN 20	AC-FT 2293000					
WTR YR 1980 TOTAL	1923971			MEAN 5257	MAX 132000	MIN 23	AC-FT 3816000					

LOCATION.--Lat 40°21'04", long 123°54'48", in SE4NE4 sec.2, T.1 S., R.2 E., Humboldt County, Hydrologic Unit 18010105, 0.2 mi (0.3 km) upstream from Northwestern Pacific Railroad Bridge, 0.4 mi (0.6 km) north of town of South Fork, and 0.5 mi (0.8 km) upstream from South Fork.

PERIOD OF RECORD. --

REMARKS.--Exact sampling location subject to change due to seasonal accessibility to river. Records of discharge given for station 11475000 Eel River at Fort Seward.

COOPERATION.--Chemical-quality data furnished by California Department of Water Resources.

[illegible]

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 mi<sup>2</sup> (16.84 km<sup>2</sup>).

## 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 except for period of no gage-height record, July 29 to September 30, which are poor.  
No regulation; small diversion above station for domestic use.

AVERAGE DISCHARGE.--13 years, 26.6 ft<sup>3</sup>/s (0.753 m<sup>3</sup>/s), 19,270 acre-ft/yr (23.8 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft<sup>3</sup>/s (64.6 m<sup>3</sup>/s) Mar. 29, 1974, gage height, 9.77 ft (2.978 m), from rating curve extended above 660 ft<sup>3</sup>/s (18.7 m<sup>3</sup>/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 ft<sup>3</sup>/s (0.011 m<sup>3</sup>/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 ft<sup>3</sup>/s (104 m<sup>3</sup>/s) by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 411 ft<sup>3</sup>/s (11.6 m<sup>3</sup>/s) Jan. 12 (0700 hrs), gage height, 6.40 ft (1.951 m), no other peak above base of 400 ft<sup>3</sup>/s (11 m<sup>3</sup>/s); minimum daily, 0.66 ft<sup>3</sup>/s (0.019 m<sup>3</sup>/s) Sept. 29-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	7.6	38	83	15	80	13	11	5.0	3.2	1.6	.94
2	.80	9.7	33	71	16	65	12	11	4.9	3.1	1.5	.94
3	.80	34	30	59	56	55	11	11	4.9	3.1	1.5	.94
4	.80	35	27	50	47	49	17	9.8	4.9	2.9	1.5	.89
5	.80	36	25	44	41	70	43	9.6	4.7	2.9	1.5	.88
6	.80	67	23	39	35	81	47	9.1	4.7	2.9	1.5	.88
7	.80	83	21	35	31	74	46	8.8	4.7	2.9	1.4	.88
8	.80	59	19	32	28	62	41	8.2	4.7	2.9	1.4	.88
9	.80	44	18	34	26	53	40	12	4.6	2.9	1.4	.85
10	.80	35	17	44	23	46	36	9.6	4.6	2.9	1.4	.84
11	.80	29	16	72	22	41	32	8.5	4.4	2.8	1.3	.80
12	.80	25	15	322	19	36	30	8.2	4.4	2.7	1.3	.80
13	.80	21	14	323	18	39	27	8.0	4.4	2.7	1.3	.80
14	.97	19	13	256	17	101	25	7.6	4.4	2.7	1.3	.76
15	1.4	17	13	171	16	103	23	7.3	4.3	2.6	1.3	.76
16	1.3	57	12	127	18	81	20	7.0	4.1	2.4	1.2	.76
17	1.2	70	11	105	87	64	19	6.8	4.0	2.3	1.2	.72
18	2.5	58	11	87	152	54	17	6.7	4.0	2.2	1.2	.72
19	14	47	13	71	165	46	16	6.5	3.7	2.1	1.2	.72
20	10	40	14	58	143	41	22	6.2	3.7	2.1	1.2	.74
21	6.0	35	16	48	123	37	21	6.1	3.7	2.1	1.2	.76
22	11	48	16	42	114	33	18	6.1	3.7	2.1	1.1	.76
23	14	59	24	36	101	30	17	6.1	3.7	2.0	1.1	.74
24	18	80	45	32	87	27	17	6.1	3.7	2.0	1.1	.72
25	82	94	58	29	73	25	16	5.9	3.6	1.9	1.0	.70
26	32	93	59	26	62	22	15	5.9	3.6	1.8	1.0	.68
27	20	74	50	24	68	20	14	5.8	3.4	1.8	1.0	.68
28	15	59	42	22	106	18	13	5.5	3.3	1.8	1.0	.68
29	12	49	37	20	97	16	13	5.5	3.3	1.7	1.0	.66
30	9.9	42	42	18	---	15	12	5.3	3.2	1.6	1.0	.66
31	8.7	---	77	16	---	14	---	5.2	---	1.6	.94	---
TOTAL	270.37	1426.3	849	2396	1806	1498	693	236.4	124.3	74.7	38.64	23.54
MEAN	8.72	47.5	27.4	77.3	62.3	48.3	23.1	7.63	4.14	2.41	1.25	.78
MAX	82	94	77	323	165	103	47	12	5.0	3.2	1.6	.94
MIN	.80	7.6	11	16	15	14	11	5.2	3.2	1.6	.94	.66
AC-FT	536	2830	1680	4750	3580	2970	1370	469	247	148	77	47
(†)	10.99	14.83	8.27	14.67	19.57	8.87	6.2	1.37	0.37	0	0	0

CAL YR 1979 TOTAL 8013.66 MEAN 22.0 MAX 171 MIN .79 AC-FT 15900  
WTR YR 1980 TOTAL 9436.25 MEAN 25.8 MAX 323 MIN .66 AC-FT 18720

† Precipitation, in inches, at rain gage No. 1.

## EEL RIVER BASIN

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.  
 CHEMICAL ANALYSES: Water years 1968 to current year.  
 WATER TEMPERATURES: Water years 1968-79.  
 SEDIMENT RECORDS: Water years 1969 to current year.

PERIOD OF DAILY RECORD.--  
 WATER TEMPERATURES: October 1967 to September 1979.  
 SEDIMENT RECORDS: October 1973 to September 1975.

REMARKS.--Chemical-quality samples collected 0.2 mi (0.3 km) downstream from gaging station.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	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)
OCT											
25...	1350	71	94	7.4	12.0	10.0	--	K140	K120	160	32
NOV											
28...	1330	57	102	7.6	9.0	10.9	--	K3	K5	21	37
DEC											
27...	1300	42	91	--	7.5	11.3	--	K12	K9	34	39
JAN											
30...	1230	17	98	--	5.0	11.9	--	41	K5	K4	39
FEB											
27...	1315	66	83	7.6	11.0	10.4	--	51	62	24	39
APR											
08...	1145	41	88	7.9	9.0	11.2	101	38	K1	K2	35
30...	1200	12	97	7.7	11.0	10.2	97	K1	K1	<1	43
MAY											
21...	1050	6.1	108	7.9	12.0	9.9	97	64	K1	K3	43
JUN											
25...	1330	3.6	116	7.9	12.0	10.0	97	K77	<1	K5	46
JUL											
29...	1630	1.5	130	7.9	21.0	8.2	96	50	11	27	53
AUG											
26...	1435	1.0	146	7.8	16.0	9.3	99	K88	K4	14	50
SEP											
23...	1615	.74	146	7.5	12.5	9.6	94	60	32	34	50

DATE	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)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT										
25...	0	8.2	2.7	4.8	24	.4	.7	34	3.7	2.4
NOV										
28...	0	9.7	3.2	5.9	25	.4	.5	48	5.9	2.3
DEC										
27...	0	9.6	3.6	6.1	35	.4	.6	48	4.3	2.3
JAN										
30...	0	10	3.4	5.7	24	.4	.5	45	2.1	2.6
FEB										
27...	0	10	3.4	5.3	23	.4	.5	41	.4	2.5
APR										
08...	0	8.9	3.0	5.3	25	.4	.6	39	1.2	1.8
30...	0	11	3.7	6.7	25	.5	.6	43	7.7	2.5
MAY										
21...	0	11	3.7	6.5	25	.4	.6	56	7.4	2.5
JUN										
25...	0	12	3.8	6.7	24	.4	.6	61	4.7	1.1
JUL										
29...	0	14	4.4	7.9	24	.5	.8	66	2.3	2.7
AUG										
26...	0	13	4.3	7.5	24	.5	.9	59	1.3	3.1
SEP										
23...	0	13	4.2	7.4	24	.5	.7	63	.8	2.8

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

## 11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	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 CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+N03 TOTAL (MG/L AS N)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	
OCT 25...	.1	13	66	56	.09	12.7	.02	.01	.03	.01	
NOV 28...	.1	16	62	73	.08	9.54	.01	.01	.01	.00	
DEC 27...	.1	15	66	71	.09	7.48	.03	.03	.06	.03	
JAN 30...	.1	15	75	67	.10	3.44	.03	.02	.00	.02	
FEB 27...	.2	14	63	61	.09	11.2	.04	.02	.01	.01	
APR 08...	.1	15	59	59	.08	6.53	.02	.03	.03	.01	
30...	.1	15	74	73	.10	2.40	.00	.00	.01	.01	
MAY 21...	.2	15	74	81	.10	1.22	.01	.01	.05	.03	
JUN 25...	.1	14	71	80	.10	.69	.00	.01	--	.03	
JUL 29...	.3	16	89	88	.12	.36	.05	.08	.04	.05	
AUG 26...	.1	15	82	81	.11	.22	.01	.00	.05	.03	
SEP 23...	.1	14	88	81	.12	.18	.00	.01	.04	.02	
DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)
APR 30...	1200	0	0	0	<1	0	0	<1	0	0	<3
SEP 23...	1615	0	1	0	<1	0	0	<1	20	0	<3
DATE	TIME	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
APR 30...	1	<10	80	<10	0	0	<4	10	<1	.1	
SEP 23...	2	<10	60	<10	0	<10	<4	10	<1	.0	
DATE	TIME	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYBDENUM, DIS- SOLVED (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRONTIUM, DIS- SOLVED (UG/L AS SR)	VANADIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 30...	.0	<10	0	0	0	0	110	<3.0	10	<3	
SEP 23...	.0	<10	0	0	0	0	140	<3.0	0	<3	
DATE	TIME	CYANIDE TOTAL (MG/L AS CN)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCB TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)
APR 30...	1200	.00	--	--	--	--	--	--	--	--	--
SEP 23...	1615	.00	.0	.00	0	.00	.0	.0	0	.00	.0

## EEL RIVER BASIN

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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- ELORIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)
APR 30...	--	--	--	--	--	--	--	--	--	--
SEP 23...	.00	.0	.00	.0	.00	.00	.0	.00	.00	.00

DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR 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, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)
APR 30...	--	--	--	--	--	--	--	--	--	--
SEP 23...	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00

DATE	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	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)
APR 30...	--	--	--	--	--	--	--	--	--	--
SEP 23...	.00	.00	.00	.00	0	0	.00	.00	.00	.00

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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
OCT 25...	1230	12.0	74	16	3.2	81
NOV 28...	1135	--	58	21	3.3	--
DEC 27...	1310	7.5	49	13	1.7	51
JAN 30...	1135	5.0	18	10	.49	47
FEB 27...	1245	11.0	66	3	.53	--
APR 08...	0955	9.0	42	3	.34	--
APR 30...	1200	11.0	12	2	.06	--
MAY 21...	1045	12.0	6.0	12	.19	78
JUN 25...	1050	12.0	3.6	1	.01	--
JUL 29...	1345	21.0	1.6	0	.00	--
AUG 26...	1430	16.0	1.0	0	.00	--
SEP 23...	1530	12.5	.74	0	.00	--

## 11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA

LOCATION.--Lat 39°52'29", long 123°43'10", in NE¼SE¼ 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 mi<sup>2</sup> (642 km<sup>2</sup>).

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.--15 years, 891 ft<sup>3</sup>/s (25.23 m<sup>3</sup>/s), 645,500 acre-ft/yr (796 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,700 ft<sup>3</sup>/s (2,060 m<sup>3</sup>/s) Jan. 4, 1966, gage height, 25.4 ft (7.74 m), from floodmarks, from rating curve extended above 21,000 ft<sup>3</sup>/s (595 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 26.13 ft (7.964 m); minimum daily, 7.3 ft<sup>3</sup>/s (0.21 m<sup>3</sup>/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 ft<sup>3</sup>/s (2,230 m<sup>3</sup>/s), by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,500 ft<sup>3</sup>/s (241 m<sup>3</sup>/s) and maximum(\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Jan. 12	1130	*22100	626	14.78	4.505
Feb. 17	2315	11800	334	11.08	3.377

Minimum daily discharge, 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/s) Oct. 1-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	236	937	2120	507	2880	480	337	154	73	34	24
2	20	256	830	1610	517	2250	453	328	148	71	32	23
3	20	1660	736	1340	3650	1860	433	313	145	73	32	23
4	20	1260	655	1160	2180	1640	596	297	150	73	31	23
5	20	1320	599	1040	1600	3250	1930	285	153	73	31	22
6	20	3230	557	935	1390	3420	1820	277	145	73	31	22
7	20	2940	521	804	1150	2570	1390	266	139	73	31	22
8	21	1430	483	715	1010	1970	1130	260	136	73	31	22
9	21	1110	452	938	882	1660	1270	354	132	75	32	22
10	21	867	427	1500	792	1440	1080	388	127	73	32	22
11	22	715	402	2990	729	1290	954	295	125	68	30	22
12	22	609	381	17800	661	1140	833	273	125	65	30	22
13	24	529	365	18800	609	1380	744	258	126	62	30	22
14	28	472	350	13900	559	4290	706	246	125	60	29	22
15	50	440	336	8070	529	3550	644	235	120	59	28	22
16	45	3160	322	5330	695	2480	573	225	113	57	27	22
17	43	2990	307	4190	5110	1920	523	217	111	54	27	22
18	55	1680	296	3050	9900	1650	491	208	105	50	27	22
19	74	1280	420	2330	9290	1390	467	203	100	48	26	23
20	115	1070	510	1880	7230	1250	655	196	99	47	26	23
21	185	905	978	1580	5530	1200	761	190	98	46	26	23
22	160	2340	797	1360	5110	1050	587	185	96	45	26	23
23	200	2280	1080	1190	3910	999	519	187	95	44	26	23
24	300	3820	2300	1060	3050	857	486	190	93	42	26	22
25	3900	3290	2730	958	2580	830	460	184	95	41	26	22
26	1030	2910	1890	850	2070	753	440	178	93	40	25	21
27	602	1840	1420	764	2870	687	417	171	88	38	25	21
28	445	1460	1180	708	5520	629	397	168	83	37	24	21
29	355	1230	1050	640	3820	578	377	166	79	36	24	21
30	298	1070	1440	582	---	536	361	159	77	35	24	21
31	270	---	2950	542	---	504	---	155	---	34	24	---
TOTAL	8426	48399	27701	100736	83450	51903	21977	7394	3475	1738	873	665
MEAN	272	1613	894	3250	2878	1674	733	239	116	56.1	28.2	22.2
MAX	3900	3820	2950	18800	9900	4290	1930	388	154	75	34	24
MIN	20	236	296	542	507	504	361	155	77	34	24	21
AC-FT	16710	96000	54940	199800	165500	102900	43590	14670	6890	3450	1730	1320

CAL YR 1979	TOTAL	261654	MEAN 717	MAX 12000	MIN 20	AC-FT 519000
WTR YR 1980	TOTAL	356737	MEAN 975	MAX 18800	MIN 20	AC-FT 707600

## EEL RIVER BASIN

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 mi<sup>2</sup> (1,391 km<sup>2</sup>).

## 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.--41 years, 1,896 ft<sup>3</sup>/s (53.69 m<sup>3</sup>/s), 1,374,000 acre-ft/yr (1.69 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 199,000 ft<sup>3</sup>/s (5,640 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 46.0 ft (14.02 m), from floodmarks, from rating curve extended above 53,000 ft<sup>3</sup>/s (1,500 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 42.7 ft (13.01 m); minimum observed, 9 ft<sup>3</sup>/s (0.25 m<sup>3</sup>/s) Oct. 17, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 12	1545	*56600 1600	23.06 7.029	Mar. 14	2045	16500 467	13.36 4.072
Feb. 19	0830	26800 759	16.27 4.959				

Minimum daily discharge, 35 ft<sup>3</sup>/s (0.99 m<sup>3</sup>/s) Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	472	1770	4700	1180	6030	1030	733	288	150	62	42
2	40	545	1540	3800	1210	4720	977	686	294	146	60	42
3	39	3400	1370	3150	7420	3910	935	647	287	146	60	41
4	40	3750	1220	2720	5200	3410	1260	634	287	145	60	41
5	39	3220	1100	2480	3600	7620	3560	609	302	142	60	41
6	39	6170	1000	2210	2900	8290	3940	584	290	141	58	41
7	40	8110	940	1910	2370	5870	3400	554	271	141	58	41
8	40	3700	890	1610	2050	4540	2560	543	263	141	58	41
9	41	2340	840	1970	1840	3660	2730	693	256	141	56	39
10	41	1710	790	3200	1680	3080	2500	951	249	140	56	39
11	40	1360	750	5720	1590	2720	2080	674	242	136	56	38
12	40	1130	710	42800	1510	2330	1840	582	240	130	54	38
13	41	971	680	47500	1430	2910	1660	522	242	125	52	36
14	43	863	650	26000	1340	11500	1570	504	242	121	51	36
15	67	791	620	17000	1270	9780	1480	484	232	117	51	36
16	68	3990	590	11000	1410	5950	1330	463	220	115	51	36
17	67	7410	575	8000	7350	4500	1170	458	212	111	51	36
18	74	4270	560	6000	23200	3790	1060	443	205	106	51	36
19	362	2840	900	4900	24000	3060	1040	425	199	103	49	38
20	747	2170	1100	4000	16200	2710	1400	339	193	100	49	38
21	838	1780	2100	3200	11700	2710	1990	373	184	96	49	38
22	692	3650	1800	2750	10300	2290	1560	347	185	93	49	38
23	1080	6930	2400	2450	7850	2010	1360	322	182	88	47	38
24	1770	7140	5000	2200	5920	1900	1260	385	178	85	47	38
25	9490	7250	6000	2010	5050	2190	1130	375	178	83	47	38
26	2670	6750	4000	1850	4190	2020	1060	358	177	81	47	36
27	1250	4420	3200	1710	5870	1760	935	344	172	78	46	35
28	878	3290	2600	1580	12500	1340	854	338	166	75	44	36
29	686	2600	2400	1450	8500	1240	818	329	158	71	44	60
30	579	2110	3000	1360	---	1140	782	318	153	67	44	195
31	522	---	6200	1250	---	1060	---	314	---	64	42	---
TOTAL	22404	105132	57295	222480	180630	120040	49271	15331	6747	3478	1609	1328
MEAN	723	3504	1848	7177	6229	3872	1642	495	225	112	51.9	44.3
MAX	9490	8110	6200	47500	24000	11500	3940	951	302	150	62	195
MIN	39	472	560	1250	1180	1060	782	314	153	64	42	35
AC-FT	44440	208500	113600	441300	358300	238100	97730	30410	13380	6900	3190	2630

CAL YR 1979	TOTAL	566399	MEAN	1552	MAX	26100	MIN	39	AC-FT	1123000
WTR YR 1980	TOTAL	785745	MEAN	2147	MAX	47500	MIN	35	AC-FT	1559000



WATER-QUALITY RECORDS

WATER TEMPERATURES: Maximum recorded, 29.5°C July 27-29; minimum recorded, 5.0°C Jan. 30-31.

[illegible]

## EEL RIVER BASIN

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	16.0	14.0	12.5	10.5	10.0	11.0	10.5	8.0	7.0	12.0	11.0
2	20.5	17.0	13.5	12.5	10.5	9.5	11.0	10.5	9.5	8.0	12.0	11.0
3	21.5	17.0	12.5	12.0	9.5	8.5	10.5	9.5	10.5	9.5	12.0	11.0
4	21.5	17.5	12.5	11.5	9.5	8.5	9.5	9.0	11.0	10.5	12.0	11.0
5	20.0	17.5	12.5	11.5	10.0	9.5	10.5	9.5	11.0	11.0	11.0	10.5
6	20.5	17.5	12.5	12.0	10.5	10.5	9.5	8.5	11.0	11.0	11.0	10.5
7	19.0	16.5	12.5	11.5	10.5	10.5	10.5	9.0	11.0	10.0	11.5	11.0
8	17.5	16.0	12.5	11.5	10.5	9.5	10.5	9.5	10.0	10.0	12.0	11.0
9	19.5	15.0	11.5	10.5	11.0	10.5	10.5	10.0	10.0	9.5	12.5	11.5
10	18.5	15.5	11.5	10.5	11.0	8.5	10.0	8.5	10.0	10.0	12.5	11.0
11	17.5	15.5	11.5	10.5	8.5	7.0	10.5	8.5	11.0	10.0	12.5	10.5
12	19.0	15.5	11.5	10.5	7.0	6.0	11.5	10.5	11.0	10.0	10.5	10.0
13	18.5	16.5	11.0	9.5	7.5	6.5	12.0	11.5	11.0	10.0	10.5	10.0
14	18.5	18.0	10.5	9.5	7.0	6.5	11.5	11.5	10.0	10.0	10.5	10.5
15	20.0	17.5	10.5	9.5	7.5	6.5	11.5	11.0	11.0	10.0	10.5	10.0
16	20.0	18.0	11.5	10.5	7.5	6.5	11.5	10.5	11.5	11.0	10.0	9.0
17	18.5	16.5	11.5	10.5	7.5	6.5	11.5	10.5	11.5	11.5	9.5	9.5
18	16.5	15.0	11.5	10.0	7.0	6.5	10.5	9.5	12.0	11.5	10.5	9.5
19	15.0	14.5	10.5	9.5	9.0	7.0	9.5	8.5	12.0	12.0	11.5	9.0
20	15.0	13.0	9.5	9.0	9.5	8.5	8.5	8.0	12.0	12.0	11.0	10.0
21	14.0	12.5	9.0	8.0	9.5	9.0	9.0	8.5	12.0	12.0	11.5	9.5
22	14.0	13.0	9.5	8.5	9.0	8.0	9.5	9.0	12.0	12.0	12.0	9.5
23	14.0	13.0	9.5	9.0	8.5	8.0	10.0	9.5	12.0	11.0	12.0	10.0
24	15.0	14.0	12.0	9.5	8.5	8.0	10.0	9.5	12.0	11.0	12.0	9.5
25	15.0	14.0	11.0	10.5	9.0	8.5	10.0	9.0	12.5	12.0	11.5	10.0
26	14.0	13.0	11.0	9.0	9.0	8.0	9.5	8.0	13.0	12.5	11.5	10.0
27	14.0	12.5	9.0	8.5	8.0	7.5	8.5	7.0	13.0	12.5	12.0	9.5
28	13.0	12.0	9.0	8.5	7.5	7.0	7.0	6.5	12.5	12.0	12.0	9.5
29	12.5	11.0	9.5	9.0	8.5	7.5	6.5	5.5	12.0	12.0	13.0	11.0
30	12.0	11.0	10.5	9.5	10.5	8.5	6.0	5.0	---	---	12.5	10.0
31	13.0	11.5	---	---	11.0	10.5	7.0	5.0	---	---	12.0	10.0
MONTH	21.5	11.0	14.0	8.0	11.0	6.0	12.0	5.0	13.0	7.0	13.0	9.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	9.0	18.0	14.0	21.5	17.5	25.5	19.5	26.5	20.5	23.0	18.5
2	12.5	9.5	18.0	15.0	20.0	16.0	23.5	20.5	25.0	20.5	23.5	19.5
3	11.5	10.0	19.5	15.0	19.0	17.0	23.5	19.5	25.0	20.5	24.5	19.5
4	10.5	10.5	18.5	16.0	18.0	17.0	22.5	19.0	25.0	20.5	24.5	19.5
5	11.0	10.0	17.5	15.0	19.0	16.0	23.0	19.5	25.0	20.5	25.0	20.5
6	11.5	10.0	18.5	15.0	20.0	16.5	23.5	19.5	24.5	20.0	23.5	19.0
7	11.0	9.5	18.5	14.5	20.0	17.5	22.5	19.5	24.5	19.5	24.5	20.5
8	11.5	9.0	17.5	15.0	21.5	17.5	21.5	19.5	24.5	19.5	24.5	19.5
9	13.5	10.5	15.5	14.5	22.5	19.0	21.5	18.5	25.5	19.5	24.5	20.5
10	13.5	10.5	15.5	13.0	22.0	18.5	24.0	19.5	26.5	20.5	25.0	21.0
11	14.5	10.5	15.5	14.0	18.5	17.0	24.5	19.5	24.0	20.0	24.0	21.0
12	15.5	11.5	16.5	14.0	19.5	17.0	24.5	19.5	24.0	19.0	23.0	20.0
13	15.0	12.5	15.5	14.5	18.5	16.5	25.0	20.5	23.0	20.0	21.5	19.0
14	14.5	13.0	17.0	13.5	19.5	16.5	25.0	20.5	22.5	19.0	21.0	18.0
15	15.5	12.5	18.5	14.0	22.5	17.5	26.0	20.5	22.5	19.0	21.5	17.0
16	16.0	13.0	18.5	15.0	20.5	18.0	27.5	22.0	23.0	18.0	21.5	17.0
17	16.5	13.5	19.5	14.5	22.5	17.5	26.5	21.5	23.0	18.5	21.5	17.0
18	17.0	13.5	21.0	16.5	22.5	18.5	24.5	21.0	23.0	19.0	21.0	18.0
19	17.5	14.0	21.5	17.0	22.5	18.5	25.5	20.0	23.0	18.0	22.0	19.0
20	16.5	12.5	22.0	17.0	22.5	18.5	26.5	21.5	24.5	19.0	22.0	19.0
21	12.5	11.5	21.5	17.5	23.0	18.5	27.5	22.5	24.0	20.0	21.5	17.5
22	13.0	12.0	20.0	16.5	23.5	18.5	26.5	22.5	21.5	18.5	21.5	17.5
23	15.5	12.5	16.5	15.5	24.5	19.0	26.0	21.5	21.0	19.0	22.5	18.0
24	16.5	13.5	18.0	15.0	25.0	20.5	26.0	20.5	21.5	18.0	23.0	18.5
25	15.0	13.5	18.0	14.5	23.0	19.0	26.5	20.5	20.5	18.0	23.5	19.5
26	17.0	12.5	18.5	14.5	22.5	18.5	28.5	21.5	23.0	18.0	23.0	20.0
27	17.5	13.5	19.0	15.0	23.5	18.0	29.5	24.5	23.0	19.0	21.5	19.5
28	17.0	15.0	20.0	16.0	25.5	19.5	29.5	24.5	22.5	19.0	22.5	19.5
29	17.0	14.0	21.0	17.0	24.5	19.5	29.5	24.5	22.0	18.0	22.5	18.5
30	17.0	13.0	21.0	17.5	25.5	19.0	28.5	23.5	22.5	18.5	22.5	18.5
31	---	---	22.0	18.0	---	---	27.5	23.5	23.5	19.0	---	---
MONTH	17.5	9.0	22.0	13.0	25.5	16.0	29.5	18.5	26.5	18.0	25.0	17.0
YEAR	29.5	5.0										

## 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 mi<sup>2</sup> (72.8 km<sup>2</sup>).

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.--20 years, 123 ft<sup>3</sup>/s (3.483 m<sup>3</sup>/s), 89,110 acre-ft/yr (110 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft<sup>3</sup>/s (185 m<sup>3</sup>/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 ft<sup>3</sup>/s (59.5 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft<sup>3</sup>/s (0.008 m<sup>3</sup>/s) Sept. 28, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,700 ft<sup>3</sup>/s (48.1 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 14	1030	*2540 71.9	8.75 2.667
Feb. 19	0400	2370 67.1	8.53 2.600

Minimum daily discharge, 0.45 ft<sup>3</sup>/s (0.013 m<sup>3</sup>/s) Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	54	104	459	90	404	102	57	21	11	3.8	2.1
2	.76	70	94	366	105	319	95	53	20	11	3.6	2.0
3	.76	156	87	299	125	246	90	49	19	11	3.6	1.9
4	.93	135	79	246	98	217	137	47	20	11	3.5	1.9
5	1.1	135	77	226	80	344	299	46	20	11	3.5	1.8
6	1.1	286	72	196	85	299	283	45	19	11	3.6	1.8
7	1.1	319	66	173	71	255	246	42	18	10	3.5	1.8
8	1.1	204	62	150	69	217	220	39	18	10	3.4	1.8
9	1.1	158	60	158	63	188	234	55	17	10	3.4	1.7
10	.99	137	56	176	59	169	196	45	17	9.7	3.3	1.5
11	1.3	115	54	280	56	150	176	41	17	9.5	3.2	1.6
12	1.3	99	52	1060	54	130	158	38	17	9.3	3.2	1.6
13	1.3	90	50	1410	52	204	145	37	17	9.1	3.2	1.7
14	6.0	83	48	1650	51	655	140	35	16	8.7	3.1	1.8
15	5.2	75	47	1140	51	495	121	34	15	8.0	3.1	1.7
16	3.7	193	45	812	67	400	111	32	15	8.0	3.1	1.7
17	3.0	181	43	603	424	351	94	30	15	7.4	3.1	1.5
18	15	156	45	467	1770	323	84	29	15	7.4	3.0	1.9
19	45	137	95	355	1500	267	76	28	14	7.2	3.0	2.1
20	34	121	125	283	854	249	89	27	14	7.0	3.0	2.0
21	23	111	130	231	589	255	135	27	14	6.4	2.9	1.8
22	77	226	117	212	483	217	115	26	14	6.3	2.9	1.7
23	38	217	296	172	359	198	104	29	14	6.2	2.8	1.5
24	398	296	727	156	316	176	94	33	14	6.0	2.7	1.3
25	443	250	576	140	313	188	89	27	14	5.8	2.5	1.1
26	148	205	424	128	267	171	78	25	12	5.6	2.5	.45
27	104	165	326	118	516	150	75	23	12	5.3	2.3	.76
28	84	140	261	108	636	133	67	22	12	5.0	2.4	1.1
29	72	125	223	103	503	125	65	22	12	4.7	2.4	1.5
30	65	115	313	97	---	115	62	21	12	4.3	2.1	.76
31	60	---	550	93	---	108	---	21	---	4.1	2.2	---
TOTAL	1638.14	4754	5304	12067	9706	7718	3980	1085	474	247.0	93.9	47.87
MEAN	52.8	158	171	389	335	249	133	35.0	15.8	7.97	3.03	1.60
MAX	443	319	727	1650	1770	655	299	57	21	11	3.8	2.1
MIN	.76	54	43	93	51	108	62	21	12	4.1	2.1	.45
AC-FT	3250	9430	10520	23930	19250	15310	7890	2150	940	490	186	95

CAL YR 1979	TOTAL	31210.14	MEAN	85.5	MAX	727	MIN	.76	AC-FT	61910
WTR YR 1980	TOTAL	47114.91	MEAN	129	MAX	1770	MIN	.45	AC-FT	93450

## EEL RIVER BASIN

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 mi<sup>2</sup> (8,063 km<sup>2</sup>).

## 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.--70 years, 7,307 ft<sup>3</sup>/s (206.9 m<sup>3</sup>/s), 5,294,000 acre-ft/yr (6.53 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 752,000 ft<sup>3</sup>/s (21,300 m<sup>3</sup>/s) Dec. 23, 1964, gage height, 72.0 ft (21.95 m), from floodmarks, from rating curve extended above 220,000 ft<sup>3</sup>/s (6,230 m<sup>3</sup>/s) on basis of maximum flow at upstream stations; minimum observed, 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) Aug. 12-14, 1924.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 72,000 ft<sup>3</sup>/s (2,040 m<sup>3</sup>/s) and maximum(\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage Height (ft)	Gage Height (m)
Jan. 14	0245	*226000	6400	40.57	12.366
Feb. 19	0645	134000	3790	31.85	9.708

Minimum daily discharge, 91 ft<sup>3</sup>/s (2.58 m<sup>3</sup>/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	1370	6180	41100	4960	30300	4680	3700	1270	569	205	125
2	100	1340	5290	25500	4680	23100	4320	3480	1210	551	195	120
3	96	5050	4550	17800	16600	19000	4140	3260	1190	529	188	119
4	91	11200	3940	13700	24400	16700	4570	3080	1190	512	182	118
5	93	9270	3440	11300	14100	27400	10200	3000	1200	497	178	117
6	93	14000	3150	10500	11800	41700	18400	2860	1230	485	172	118
7	94	29900	2900	9420	10200	28700	16800	2700	1230	478	169	117
8	94	15700	2680	8320	8550	21700	11400	2560	1150	478	167	112
9	96	8960	2500	8010	7470	17600	10300	2720	1090	474	164	112
10	96	6130	2310	12900	6620	14800	10300	3570	1040	465	161	112
11	96	4630	2150	16100	6120	12900	8950	3510	1020	459	191	110
12	96	3660	2020	107000	5690	11400	7780	2750	1000	447	212	108
13	99	3040	1910	194000	5330	11300	6940	2490	988	432	243	106
14	123	2610	1800	184000	5030	29000	6630	2420	987	418	271	107
15	121	2280	1730	111000	4870	40300	6480	2340	976	398	301	105
16	133	5220	1650	61700	5100	24300	5970	2190	958	385	322	99
17	156	34700	1580	49700	18300	18400	5500	2050	916	370	351	104
18	169	20300	1540	37200	97200	16500	5220	1940	870	355	336	108
19	348	12100	1920	27500	130000	13600	4940	1850	826	338	272	112
20	984	8440	2860	21200	94400	11900	5250	1750	800	329	220	109
21	2400	6460	4540	17200	60500	12100	8530	1700	774	316	187	112
22	2540	7340	8290	14400	50000	10800	7780	1730	750	304	174	113
23	2820	24800	7980	12200	43500	9520	6310	1670	739	291	176	113
24	4720	19500	30300	10500	30700	8360	5630	1760	720	285	165	118
25	23000	25500	37600	9310	24900	7880	5210	1670	687	271	151	119
26	20600	26800	25700	8500	21300	7240	4810	1600	668	263	141	119
27	6580	19000	15900	7720	23100	6430	4500	1530	657	258	134	117
28	3700	12800	11300	6980	58700	5800	4250	1480	650	249	132	114
29	2540	9510	8680	6310	44900	5360	4070	1430	636	240	128	113
30	1930	7480	9660	5770	---	5060	3910	1370	608	229	125	111
31	1610	---	38300	5270	---	4910	---	1320	---	215	125	---
TOTAL	75724	359090	254350	1072110	839020	514060	213770	71480	28030	11890	6138	3387
MEAN	2443	11970	8205	34580	28930	16580	7126	2306	934	384	198	113
MAX	23000	34700	38300	194000	130000	41700	18400	3700	1270	569	351	125
MIN	91	1340	1540	5270	4680	4910	3910	1320	608	215	125	99
AC-FT	150200	712300	504500	2127000	1664000	1020000	424000	141800	55600	23580	12170	6720
CAL YR 1979 TOTAL		2182128		MEAN 5978	MAX 55500	MIN 91	AC-FT 4328000					
WTR YR 1980 TOTAL		3449049		MEAN 9424	MAX 194000	MIN 91	AC-FT 6841000					

## 11477000 EEL RIVER AT SCOTIA, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.  
 CHEMICAL ANALYSES: Water years 1952-75, 1977, 1979 to current year.  
 BIOLOGICAL DATA: Water year 1979 to current year.  
 SPECIFIC CONDUCTANCE: Water years 1979-80.  
 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 1979 to current year.  
 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.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 314 micromhos Oct. 14, 1979; minimum recorded, 94 micromhos Jan. 14, 1980.

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 days in 1958-64, 1966-67, 1970, 1972-80.

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.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 314 micromhos Oct. 14; minimum recorded, 94 micromhos Jan. 14.

WATER TEMPERATURES: Maximum recorded, 26.5°C July 27-29; minimum recorded, 4.0°C Dec. 30.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,320 mg/L Jan. 13; minimum daily mean, 1 mg/L many days.

SEDIMENT DISCHARGE: Maximum daily, 2,290,000 tons (2,080,000 metric tons) Jan. 13; minimum daily, 0.25 ton (0.23 metric ton) Oct. 4.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO3)
OCT											
02...A	1155	90	294	8.3	21.5	.00	10.4	--	--	--	140
16...	1245	132	301	8.0	19.0	.30	10.5	--	K3	K5	140
NOV											
06...A	1315	11000	164	7.5	13.0	105	10.0	--	--	--	67
26...	1415	31300	120	7.4	11.0	210	11.0	--	390	770	48
DEC											
05...A	1205	3380	--	7.8	12.0	5.0	11.1	--	--	--	--
27...	1045	16000	130	7.7	7.0	90	11.6	--	83	92	54
JAN											
08...A	1520	8200	--	7.7	11.0	23	10.8	--	--	--	--
29...	1040	6240	172	6.8	5.0	19	12.1	--	K4	K7	75
FEB											
05...A	1030	14200	--	8.4	10.5	120	10.8	--	--	--	--
26...	1230	21000	132	7.9	12.0	130	10.6	--	K35	K39	60
MAR											
04...A	1215	27500	148	7.7	11.0	100	11.7	--	--	--	63
18...	1250	16400	141	7.9	9.5	78	11.3	--	K38	57	61
APR											
15...	1150	6560	160	7.7	14.5	19	10.2	99	K5	K4	74
MAY											
06...A	1155	2880	187	8.0	17.5	2.0	9.9	--	--	--	84
13...	1140	2470	188	7.7	14.5	3.1	9.8	95	K4	K1	86
JUN											
03...	1245	1190	216	7.9	17.5	.90	9.9	103	K1	K1	100
04...A	1120	--	--	8.1	17.5	2.0	10.4	--	--	--	--
JUL											
09...A	1145	--	--	8.2	20.5	1.0	10.3	--	--	--	--
15...	1000	412	271	8.0	20.0	.90	9.0	98	<1	<1	120
AUG											
12...	1230	211	287	7.7	20.0	.80	9.0	98	K2	K1	130
20...A	1125	--	--	8.2	22.0	1.0	10.5	--	--	--	--
SEP											
09...	1230	110	304	7.8	20.0	.30	10.1	110	K1	K2	140
16...A	1425	--	--	8.3	21.0	1.0	11.7	--	--	--	--

A Chemical-quality samples collected by California Department of Water Resources.

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

11477000 BEL RIVER AT SCOTIA, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible][illegible]

11477000 BEL RIVER AT SCOTIA, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)
OCT										
02...	--	.40	--	--	.01	--	.00	--	--	--
16...	.24	.50	.28	.51	.01	.00	--	2.2	--	--
NOV										
06...	--	--	--	--	--	--	--	8.0	--	--
26...	.42	1.4	.43	1.5	.48	.06	--	7.7	--	--
DEC										
05...	--	--	--	--	--	--	--	--	--	--
27...	1.0	1.2	1.0	1.3	.32	.01	--	--	4.2	1.1
JAN										
08...	--	--	--	--	--	--	--	--	--	--
29...	.22	--	.23	--	.08	.01	--	2.0	--	--
FEB										
05...	--	--	--	--	--	--	--	--	--	--
26...	.00	.09	.00	.24	.27	.02	--	4.2	--	--
MAR										
04...	--	.20	--	--	.14	--	.00	--	--	--
18...	.40	--	.40	--	.05	.03	--	--	2.1	.1
APR										
15...	.67	--	.74	--	.06	.04	--	--	--	--
MAY										
06...	--	.20	--	--	.02	--	.00	--	--	--
13...	--	1.3	1.3	1.3	.03	.02	--	4.0	--	--
JUN										
03...	.47	2.2	.48	2.2	.02	.01	--	--	4.3	.1
04...	--	--	--	--	--	--	--	--	--	--
JUL										
09...	--	.20	--	--	.01	--	.00	--	--	--
15...	.59	1.1	.59	1.1	.05	.03	--	1.3	--	--
AUG										
12...	.44	.58	.44	.58	.03	.01	--	8.1	--	--
20...	--	--	--	--	--	--	--	--	--	--
SEP										
09...	.24	.29	.26	.29	.02	.00	--	--	2.3	.2
16...	--	--	--	--	--	--	--	--	--	--

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)	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)
OCT										
02...	1155	--	0	--	100	200	--	0	--	0
NOV										
06...	1315	--	--	--	--	200	--	--	--	--
26...	1415	--	--	--	--	--	--	--	--	--
DEC										
27...	1045	1	4	300	50	--	0	<1	10	0
FEB										
26...	1230	--	--	--	--	--	--	--	--	--
MAR										
04...	1215	--	0	--	0	100	--	0	--	0
18...	1250	1	0	100	40	--	0	<1	10	0
MAY										
06...	1155	--	--	--	--	0	--	--	--	--
13...	1140	--	--	--	--	--	--	--	--	--
JUN										
03...	1245	1	1	100	60	--	1	2	0	0
AUG										
12...	1230	--	--	--	--	--	--	--	--	--
SEP										
09...	1230	1	1	100	90	--	1	<1	0	0

## BBL RIVER BASIN

11477000 BBL RIVER AT SCOTIA, CA<sup>1</sup>-Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 02...	--	--	--	0	--	10	--	0	--	10
NOV 06...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
DEC 27...	4	<3	6	0	7400	50	8	2	140	0
FEB 26...	--	--	--	--	--	--	--	--	--	--
MAR 04...	--	--	--	0	--	10	--	0	--	0
18...	0	<3	14	0	3700	30	3	0	70	3
MAY 06...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
JUN 03...	1	<3	15	3	170	<10	7	3	10	4
AUG 12...	--	--	--	--	--	--	--	--	--	--
SEP 09...	0	<3	5	3	80	<10	4	2	20	3
DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	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 02...	.0	--	--	--	--	0	--	--	--	--
NOV 06...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	0	--	--	--
DEC 27...	.0	.0	22	0	0	0	0	0	100	<3
FEB 26...	--	--	--	--	--	--	2	--	--	--
MAR 04...	.0	--	--	--	--	0	--	--	--	--
18...	.2	.2	22	1	0	0	4	0	40	<3
MAY 06...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	0	--	--	--
JUN 03...	.1	.0	63	1	0	0	0	0	10	<3
AUG 12...	--	--	--	--	--	--	0	--	--	--
SEP 09...	.0	.0	4	2	0	0	0	0	10	<3



11477000 EEL RIVER AT SCOTIA, CA--Continued

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON								
DATE TIME	NOV 26,79 1415	MAR 18,80 1250	MAY 13,80 1140	JUN 3,80 1245				
TOTAL CELLS/ML	290	82	77	2000				
DIVERSITY: DIVISION	0.8	1.3	0.7	0.3				
..CLASS	0.8	1.3	0.7	0.3				
..ORDER	1.0	1.3	0.7	0.7				
...FAMILY	1.1	2.3	0.7	0.7				
....GENUS	1.1	2.3	0.7	0.7				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....OOCYSTACEAE								
.....ANKISTRODESMUS	--	-	14#	17	--	-	--	-
.....DICTYOSPHAERIUM	--	-	--	-	--	-	79	4
.....TETRAEDRON	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	13#	17	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	--	-	--	-	20	1
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCACEAE								
.....CYCLOTELLA	--	-	--	-	--	-	1800#	87
.....MELOSIRA	61#	21	--	-	--	-	--	-
...PENNALES								
....ACHNANTHACEAE								
.....ACHNANTHES	--	-	14#	17	--	-	--	-
....CYMBELLACEAE								
.....CYMBELLA	--	-	14#	17	--	-	20	1
.....EPITHEMIA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....SYNEDRA	5	2	--	-	--	-	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	--	-	27#	33	--	-	--	-
...NAVICULACEAE								
....NAVICULA	5	2	--	-	--	-	--	-
...NITZSCHACEAE								
....NITZSCHIA	5	2	--	-	65#	83	140	7
..CHRYSOPHYCEAE								
...CHRYSONOMADACEAE								
....OCHROMONADACEAE								
.....OCHROMONAS	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADACEAE								
....CRYPTOCHRYSIDACEAE								
.....CHROOMONAS	--	-	--	-	--	-	--	-
....CRYPTOMONADACEAE								
.....CRYPTOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
.....ANACYSTIS	--	-	--	-	--	-	--	-
...HORMOGONALES								
....NOSTOCACEAE								
.....ANABAENA	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	220#	74	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
....EUGLENACEAE								
.....TRACHELOMONAS	--	-	14#	17	--	-	--	-

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

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

## BEL RIVER BASIN

11477000 BEL RIVER AT SCOTIA, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE TIME	JUL 15,80 1000	AUG 12,80 1230	SEP 9,80 1230
TOTAL CELLS/ML	4500	610	260
DIVERSITY: DIVISION	1.1	1.9	1.4
..CLASS	1.2	1.9	1.4
..ORDER	1.5	2.1	1.4
...FAMILY	1.7	2.4	2.1
....GENUS	1.7	2.7	2.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....OOCYSTACEAE						
.....ANKISTRODESMUS	150	3	52	9	39	15
.....DICTYOSPHAERIUM	--	--	--	--	--	--
.....TETRAEDRON	--	--	13	2	--	--
...SCENEDESMACEAE						
.....ACTINASTRUM	--	--	100#	17	--	--
.....SCENEDESMUS	490	11	26	4	120#	45
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
.....CHLAMYDOMONAS	--	--	--	--	--	--
..ZYGNEMATALES						
...DESMIDIACEAE						
....COSMARUM	--	--	--	--	--	--
CHRYSTOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
...COSCINODISACEAE						
....CYCLOTELLA	220	5	90	15	--	--
....MELOSIRA	--	--	--	--	--	--
..PENNALES						
...ACHNANTHACEAE						
.....ACHNANTHES	25	1	--	--	--	--
...CYMBELLACEAE						
.....CYMBELLA	--	--	--	--	--	--
.....EPITHEMIA	49	1	--	--	--	--
...FRAGILARIACEAE						
.....SYNEDRA	--	--	--	--	--	--
...GOMPHONEMACEAE						
.....GOMPHONEMA	--	--	--	--	--	--
...NAVICULACEAE						
.....NAVICULA	--	--	--	--	13	5
...NITZSCHACEAE						
.....NITZSCHIA	49	1	13	2	--	--
..CHRYSTOPHYCEAE						
...CHRYSONOMADALES						
...OCHROMONADACEAE						
....OCHROMONAS	220	5	--	--	--	--
CRYPTOPHYTA (CRYPTOMONADS)						
..CRYPTOPHYCEAE						
...CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
.....CHROOMONAS	--	--	220#	36	64#	25
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	--	--	--	13	5
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
.....ANACYSTIS	3100#	69	52	9	13	5
...HORMOGONALES						
...NOSTOCACEAE						
.....ANABAENA	--	--	39	6	--	--
...OSCILLATORIA						
.....OSCILLATORIA	200	4	--	--	--	--
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS	--	--	--	--	--	--

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 1979 TO SEPTEMBER 1980

[illegible]



11477000 EEL RIVER AT SCOTIA, CA--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	106	1	.29	1370	8	30	6180	52	868
2	100	1	.27	1340	9	33	5290	55	786
3	96	1	.26	5050	196	4510	4550	30	369
4	91	1	.25	11200	400	12100	3940	22	234
5	93	2	.50	9270	240	6010	3440	17	158
6	93	2	.50	14000	646	33500	3150	12	102
7	94	2	.51	29900	1260	104000	2900	10	78
8	94	3	.76	15700	340	14400	2680	14	101
9	96	3	.78	8960	140	3390	2500	8	54
10	96	3	.78	6130	70	1160	2310	10	62
11	96	3	.78	4630	45	563	2150	8	46
12	96	3	.78	3660	24	237	2020	6	33
13	99	3	.80	3040	16	131	1910	6	31
14	123	3	1.0	2610	11	78	1800	8	39
15	121	3	.98	2280	10	62	1730	5	23
16	133	1	.36	5220	271	6890	1650	4	18
17	156	2	.84	34700	1160	108000	1580	5	21
18	169	2	.91	20300	390	21400	1540	4	17
19	348	5	4.7	12100	160	5230	1920	10	52
20	984	20	53	8440	90	2050	2860	38	293
21	2400	85	624	6460	55	959	4540	127	1850
22	2540	68	466	7340	174	5370	8290	320	7160
23	2820	125	952	24800	970	67800	7980	220	4740
24	4720	234	3630	19500	502	28000	30300	976	84500
25	23000	1740	122000	25500	560	38600	37600	741	75800
26	20600	1150	64000	26800	643	48200	25700	355	24600
27	6580	220	3910	19000	295	15100	15900	215	9230
28	3700	70	699	12800	150	5180	11300	105	3200
29	2540	35	240	9510	94	2410	8680	60	1410
30	1930	16	83	7480	55	1110	9660	218	7070
31	1610	16	70	---	---	---	38300	1310	144000
TOTAL	75724	---	196743.1	359090	---	536503	254350	---	366945
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	41100	950	105000	4960	42	562	30300	450	36800
2	25500	420	28900	4680	38	480	23100	350	21800
3	17800	240	11500	16600	549	37800	19000	310	15900
4	13700	155	5730	24400	853	58800	16700	290	13100
5	11300	105	3200	14100	370	14100	27400	797	68600
6	10500	95	2690	11800	210	6690	41700	1050	120000
7	9420	80	2030	10200	170	4680	28700	480	37200
8	8320	80	1800	8550	110	2540	21700	290	17000
9	8010	70	1510	7470	85	1710	17600	220	10500
10	12900	300	10400	6620	65	1160	14800	200	7990
11	16100	270	11700	6120	50	826	12900	195	6790
12	107000	2930	1160000	5690	45	691	11400	190	5850
13	194000	4320	2290000	5330	40	576	11300	200	6100
14	184000	3980	2030000	5030	37	502	29000	1300	121000
15	111000	2700	809000	4870	35	460	40300	1390	161000
16	61700	1850	308000	5100	45	620	24300	570	37400
17	49700	1270	170000	18300	858	69000	18400	330	16400
18	37200	970	97400	97200	4150	1130000	16500	235	10500
19	27500	800	59400	130000	3000	1050000	13600	200	7340
20	21200	615	35200	94400	1750	446000	11900	170	5460
21	17200	450	20900	60500	1300	212000	12100	160	5230
22	14400	345	13400	50000	1170	161000	10800	150	4370
23	12200	273	8990	43500	1000	117000	9520	130	3340
24	10500	213	6040	30700	640	53000	8360	100	2260
25	9310	163	4100	24900	520	35000	7880	87	1850
26	8500	130	2980	21300	460	26500	7240	76	1490
27	7720	106	2210	23100	754	52900	6430	60	1040
28	6980	90	1700	58700	2270	360000	5800	50	783
29	6310	74	1260	44900	960	122000	5360	40	579
30	5770	57	888	---	---	---	5060	36	492
31	5270	47	669	---	---	---	4910	38	504
TOTAL	1072110	---	7206597	839020	---	3966597	514060	---	748668

## EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CA--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	4680	30	379	3700	13	130	1270	2	6.9
2	4320	25	292	3480	13	122	1210	2	6.5
3	4140	23	257	3260	12	106	1190	4	13
4	4570	25	308	3080	12	100	1190	2	6.4
5	10200	260	8800	3000	11	89	1200	3	9.7
6	18400	440	21900	2860	11	85	1230	3	10
7	16800	407	18800	2700	10	73	1230	3	10
8	11400	220	6770	2560	9	62	1150	2	6.2
9	10300	165	4590	2720	18	132	1090	2	5.9
10	10300	140	3890	3570	27	260	1040	2	5.6
11	8950	105	2540	3510	20	190	1020	1	2.8
12	7780	92	1930	2750	12	89	1000	1	2.7
13	6940	80	1500	2490	9	61	988	1	2.7
14	6630	66	1180	2420	8	52	987	1	2.7
15	6480	50	875	2340	8	51	976	1	2.6
16	5970	42	677	2190	7	41	958	1	2.6
17	5500	36	535	2050	7	39	916	1	2.5
18	5220	34	479	1940	7	37	870	1	2.3
19	4940	33	440	1850	7	35	826	1	2.2
20	5250	50	709	1750	6	28	800	1	2.2
21	8530	157	3670	1700	6	28	774	1	2.1
22	7780	140	2940	1730	6	28	750	1	2.0
23	6310	63	1070	1670	5	23	739	1	2.0
24	5630	50	760	1760	4	19	720	2	3.9
25	5210	42	591	1670	4	18	687	2	3.7
26	4810	34	442	1600	4	17	668	2	3.6
27	4500	27	328	1530	4	17	657	2	3.5
28	4250	25	287	1480	4	16	650	2	3.5
29	4070	16	176	1430	3	12	636	2	3.4
30	3910	14	148	1370	3	11	608	2	3.3
31	---	---	---	1320	2	7.1	---	---	---
TOTAL	213770	---	87263	71480	---	1978.1	28030	---	136.5
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	569	2	3.1	205	1	.55	125	1	.34
2	551	2	3.0	195	1	.53	120	1	.32
3	529	2	2.9	188	1	.51	119	1	.32
4	512	2	2.8	182	1	.49	118	1	.32
5	497	2	2.7	178	1	.48	117	1	.32
6	485	2	2.6	172	1	.46	118	1	.32
7	478	1	1.3	169	1	.46	117	1	.32
8	478	1	1.3	167	1	.45	112	1	.30
9	474	1	1.3	164	1	.44	112	1	.30
10	465	1	1.3	161	1	.43	112	1	.30
11	459	1	1.2	191	2	1.0	110	1	.30
12	447	1	1.2	212	3	1.7	108	1	.29
13	432	1	1.2	243	3	2.0	106	1	.29
14	418	2	2.3	271	3	2.2	107	2	.58
15	398	2	2.1	301	3	2.4	105	1	.28
16	385	2	2.1	322	3	2.6	99	1	.27
17	370	1	1.0	351	4	3.8	104	1	.28
18	355	1	.96	336	3	2.7	108	1	.29
19	338	1	.91	272	2	1.5	112	1	.30
20	329	1	.89	220	1	.59	109	1	.29
21	316	1	.85	187	1	.50	112	1	.30
22	304	1	.82	174	1	.47	113	1	.31
23	291	2	1.6	176	1	.48	113	1	.31
24	285	3	2.3	165	1	.45	118	1	.32
25	271	2	1.5	151	1	.41	119	1	.32
26	263	1	.71	141	1	.38	119	1	.32
27	258	1	.70	134	1	.36	117	1	.32
28	249	1	.67	132	1	.36	114	2	.62
29	240	1	.65	128	1	.35	113	1	.31
30	229	1	.62	125	1	.34	111	1	.30
31	215	1	.58	125	1	.34	---	---	---
TOTAL	11890	---	47.16	6138	---	29.73	3387	---	9.76
YEAR	3449049		13111517						

11477000 EEL RIVER AT SCOTIA, CA--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

		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	
DATE	TIME								
NOV									
26...	1400	--	31100	1150	96600	14	19	26	
29...	1700	9.5	9140	88	2170	--	--	--	
DEC									
27...	1425	8.0	15200	206	8450	28	37	47	
FEB									
26...	1615	12.0	20600	453	25200	28	36	45	
MAR									
18...	1215	9.5	16400	242	10700	--	--	--	
		SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV									
26...	33	42	50	57	73	94	97	100	
29...	--	--	88	--	--	--	--	--	
DEC									
27...	57	65	70	76	84	99	99	100	
FEB									
26...	54	63	74	85	97	99	100	--	
MAR									
18...	--	--	73	80	92	100	--	--	

## EEL RIVER BASIN

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA

LOCATION.--Lat 40°28'50", long 123°53'23", in NE&SE& 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 mi<sup>2</sup> (575 km<sup>2</sup>).

## 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.--30 years, 885 ft<sup>3</sup>/s (25.06 m<sup>3</sup>/s), 641,200 acre-ft/yr (791 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft<sup>3</sup>/s (1,380 m<sup>3</sup>/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 ft<sup>3</sup>/s (566 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 21.3 ft (6.49 m), former site and datum; minimum daily, 4.6 ft<sup>3</sup>/s (0.13 m<sup>3</sup>/s) Aug. 8, 13-24, Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,800 ft<sup>3</sup>/s (476 m<sup>3</sup>/s) Jan. 13 (0100 hrs), gage height, 14.32 ft (4.365 m), no other peak above base of 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s); minimum daily, 8.2 ft<sup>3</sup>/s (0.23 m<sup>3</sup>/s) Oct. 5-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	508	605	3530	353	2400	532	360	134	54	17	9.5
2	8.8	709	545	2160	341	1850	498	333	128	51	17	9.3
3	8.7	2220	471	1570	1810	1630	468	316	124	50	16	9.6
4	8.4	1830	401	1270	938	1540	548	297	124	48	16	9.1
5	8.2	1700	350	1450	712	3180	1590	282	127	47	16	9.2
6	8.2	3960	323	1500	732	2440	2200	267	124	46	15	8.6
7	8.2	3430	297	1210	598	1800	1460	247	115	45	15	8.4
8	8.2	1700	266	1030	537	1480	1110	222	109	45	15	8.4
9	8.2	1140	243	1290	485	1260	1510	375	103	45	15	8.4
10	8.4	829	228	1830	451	1150	1280	562	99	44	14	8.4
11	8.5	647	210	2370	427	1070	996	372	95	42	13	8.4
12	8.5	523	193	13200	406	958	848	327	94	41	13	8.4
13	9.0	439	180	13300	382	1610	762	301	108	40	13	8.4
14	12	378	172	10500	363	6980	765	288	102	38	13	8.4
15	25	332	160	6400	363	4390	751	266	94	37	13	8.4
16	20	2110	153	3910	407	2530	636	247	89	35	13	8.9
17	16	2520	143	2770	2600	1950	581	231	86	33	12	9.3
18	70	1670	137	1780	10100	1800	534	218	82	32	12	8.9
19	300	1250	286	1290	9960	1430	496	206	78	32	12	8.8
20	1000	952	585	1040	6250	1390	812	197	74	31	11	8.8
21	500	751	1140	868	4020	1550	1020	187	71	29	11	8.8
22	379	1610	925	748	3110	1330	865	182	69	27	11	8.8
23	644	2360	1340	660	2400	1130	705	184	68	26	11	8.8
24	1380	3940	2890	600	2010	987	621	214	66	26	11	9.2
25	7180	2660	2440	553	2030	939	559	198	68	25	10	9.2
26	1970	2220	1630	510	1800	852	514	179	68	24	9.8	9.2
27	1150	1450	1180	470	4330	756	475	169	64	22	9.6	9.2
28	889	1130	914	437	6440	679	443	160	60	21	9.6	9.2
29	669	885	772	405	3720	636	417	153	57	20	9.6	9.2
30	540	721	2290	376	---	594	388	146	54	19	9.3	9.2
31	602	---	5900	362	---	557	---	140	---	18	9.6	---
TOTAL	17456.1	46574	27369	79389	68075	52848	24384	7826	2734	1093	392.5	266.4
MEAN	563	1552	883	2561	2347	1705	813	252	91.1	35.3	12.7	8.88
MAX	7180	3960	5900	13300	10100	6980	2200	562	134	54	17	9.6
MIN	8.2	332	137	362	341	557	388	140	54	18	9.3	8.4
AC-FT	34620	92380	54290	157500	135000	104800	48370	15520	5420	2170	779	528
CAL YR 1979	TOTAL	253541.5	MEAN	695	MAX	7860	MIN	8.2	AC-FT	502900		
WTR YR 1980	TOTAL	328407.0	MEAN	897	MAX	13300	MIN	8.2	AC-FT	651400		



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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)
OCT							
02...	1100	9.0	--	8.1	20.0	1.0	10.0
NOV							
06...	1220	4200	--	7.5	11.5	210	10.0
DEC							
05...	1125	358	--	7.5	9.5	4.0	11.5
JAN							
08...	1615	557	125	7.6	9.0	14	11.6
FEB							
05...	0930	733	--	7.8	8.5	21	11.4
MAR							
04...	1110	1040	--	--	--	--	--
APR							
08...	1045	740	--	--	--	--	--
MAY							
06...	1110	304	--	7.7	15.5	1.0	10.2
JUN							
04...	1030	--	--	7.9	14.5	1.0	10.7
JUL							
09...	1055	--	--	8.1	20.5	1.0	9.7
AUG							
20...	1035	--	--	8.1	20.0	.00	9.4
SEP							
16...	1340	--	--	8.3	22.0	1.0	10.0

DATE	HARD- NESS (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)	SODIUM AD- SORP- TION RATIO	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	BORON, DIS- SOLVED (UG/L AS B)
OCT							
02...	--	--	--	--	--	--	--
NOV							
06...	--	--	--	--	--	--	--
DEC							
05...	--	--	--	--	--	--	--
JAN							
08...	54	15	4.0	3.0	.2	1.0	0
FEB							
05...	--	--	--	--	--	--	--
MAR							
04...	--	--	--	--	--	--	--
APR							
08...	--	--	--	--	--	--	--
MAY							
06...	--	--	--	--	--	--	--
JUN							
04...	--	--	--	--	--	--	--
JUL							
09...	--	--	--	--	--	--	--
AUG							
20...	--	--	--	--	--	--	--
SEP							
16...	--	--	--	--	--	--	--

## MAD RIVER BASIN

11480390 MAD RIVER ABOVE RUTH RESERVOIR NEAR FOREST GLEN, CA

LOCATION.--Lat 40°17'04", long 123°20'03" (relocated), in NW¼NE¼ sec.24, T.2 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, near right bank on downstream end of pier of Zenia Road Bridge, 1,600 ft (488 m) downstream from Marshall Creek, 1.2 mi (1.9 km northwest of Ruth and 6.1 mi (9.8 km) southwest of Forest Glen.

DRAINAGE AREA.--93.8 mi<sup>2</sup> (242.9 km<sup>2</sup>).

PERIOD OF RECORD.--September to December 1971, July 1972, June to September 1977, April to May 1980 (discharge measurements only), June to September 1980.

REMARKS.--Water-stage recorder. Altitude of gage is 2,660 ft (811 m), from topographic map.

REMARKS.--Records fair except those below 5.0 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s), which are poor. No regulation or diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period June to September, 15 ft<sup>3</sup>/s (0.42 m<sup>3</sup>/s) June 20, gage height, 3.11 ft (0.948 m); minimum daily, 0.14 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	11	2.5	.50
2									---	10	2.4	.49
3									---	10	2.3	.52
4									---	9.4	2.1	.52
5									---	9.0	1.9	.48
6									---	9.0	1.7	.46
7									---	8.8	1.6	.46
8									---	8.3	1.5	.44
9									---	8.1	1.3	.38
10									---	8.1	1.1	.39
11									---	7.8	1.1	.37
12									---	7.4	1.1	.34
13									---	7.1	1.0	.30
14									---	6.9	1.0	.30
15									---	6.6	.99	.30
16									---	6.3	.98	.30
17									---	5.8	1.0	.31
18									---	5.7	.90	.33
19									---	5.4	.83	.34
20									---	15	5.2	.87
21									15	4.9	.82	.25
22									14	4.6	.79	.25
23									15	4.4	.77	.25
24									14	4.1	.72	.25
25									14	4.0	.67	.20
26									14	3.9	.65	.18
27									13	3.5	.63	.22
28									12	3.4	.58	.20
29									12	3.2	.58	.17
30									11	2.9	.58	.14
31									---	2.7	.56	---
TOTAL									---	197.5	35.52	9.93
MEAN									---	6.37	1.15	.33
MAX									---	11	2.5	.52
MIN									---	2.7	.56	.14
AC-FT									---	392	70	20

## 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 mi<sup>2</sup> (313 km<sup>2</sup>).

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 hm<sup>3</sup>) 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 hm<sup>3</sup>) Feb. 14, 1975, elevation, 2,665.98 ft (812.591 m); minimum, 11,700 acre-ft (14.4 hm<sup>3</sup>) Oct. 24-28, 1977; minimum elevation, 2,607.13 ft (794.653 m) Oct. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 60,300 acre-ft (74.3 hm<sup>3</sup>) Jan. 13; maximum elevation, 2,661.31 ft (811.167 m) Jan. 13; minimum contents, 28,600 acre-ft (35.3 hm<sup>3</sup>) Oct. 18-20; minimum elevation, 2,630.77 ft (801.859 m) Oct. 19.

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 1979 TO SEPTEMBER 1980  
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32300	34800	52200	54600	52100	54000	52500	52600	52000	51100	47400	41100
2	31900	34900	52000	53800	52200	53600	52500	52600	52000	51100	47100	40800
3	31700	35400	51800	53300	53900	53300	52600	52600	52000	51000	47000	40600
4	31400	35900	51600	52900	53800	53200	52900	52500	52000	50900	46800	40400
5	31200	36500	51500	52700	53500	53800	53400	52500	52000	50800	46600	40200
6	31000	37900	51500	52600	53300	54000	53700	52400	52000	50800	46400	40000
7	30700	39100	51500	52400	53100	53700	53700	52400	52000	50700	46200	39700
8	30500	39700	51500	52200	53000	53400	53500	52400	52000	50600	46100	39500
9	30300	40000	51400	52500	52800	53200	53500	52600	52000	50500	45900	39300
10	30100	40300	51300	52800	52700	53200	53400	52600	51900	50500	45700	39100
11	29800	40400	51300	54700	52600	53200	53300	52500	51900	50300	45500	38900
12	29600	40500	51400	59300	52600	53200	53200	52600	51900	50200	45300	38600
13	29400	40600	51400	60300	52500	53400	53100	52600	51900	50100	45100	38400
14	29200	40700	51400	58600	52400	55100	53000	52500	51900	50000	44900	38100
15	29000	40800	51400	56600	52400	54600	53000	52500	51900	49900	44700	37900
16	28900	43300	51400	55500	52500	54000	52900	52400	51800	49800	44500	37700
17	28700	45500	51400	54800	54200	53600	52900	52500	51800	49700	44300	37500
18	28600	46600	51400	54100	57300	53300	52800	52400	51800	49600	44100	37300
19	28600	47200	51600	53700	57400	53000	52800	52400	51800	49500	43900	37000
20	28600	47600	52000	53300	56200	52800	52800	52400	51700	49400	43700	36800
21	28700	48000	52400	53000	55100	52600	52900	52300	51700	49300	43500	36600
22	29000	49200	52500	52800	54700	52400	52900	52200	51600	49100	43300	36400
23	29300	50800	53000	52500	54200	52200	52800	52200	51600	48900	43100	36200
24	30000	53200	53400	52300	53800	52400	52800	52100	51500	48800	42900	36000
25	33400	54200	53400	52100	53500	52600	52700	52100	51500	48600	42700	35700
26	34100	53900	53100	51900	53300	52600	52700	52200	51400	48400	42500	35500
27	34400	53300	52700	51700	54400	52600	52700	52100	51400	48300	42100	35300
28	34600	52800	52400	51700	55100	52600	52600	52100	51300	48100	41900	35000
29	34700	52600	52100	51800	54600	52500	52600	52100	51300	47900	41800	34800
30	34800	52400	53900	52000	---	52500	52600	52100	51200	47700	41500	34600
31	34800	---	55200	52100	---	52500	---	52100	---	47600	41300	---
MAX	34800	54200	55200	60300	57400	55100	53700	52600	52000	51100	47400	41100
MIN	28600	34800	51300	51700	52100	52200	52500	52100	51200	47600	41300	34600
(†)	2637.44	2654.48	2657.01	2654.25	2656.49	2654.58	2654.69	2654.24	2653.44	2650.17	2643.98	2637.31
(‡)	+2200	+17,600	+2800	-3100	+2500	-2100	+100	-500	-900	-3600	-6300	-6700

CAL YR 1979 ‡ +32,300  
WTR YR 1980 ‡ +2,000

† 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 mi<sup>2</sup> (370 km<sup>2</sup>).

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 fair. Flow regulated by Ruth Reservoir (station 11480400), 9 mi (14 km) upstream, beginning in July 1961. No diversion above station.

AVERAGE DISCHARGE.--27 years, 376 ft<sup>3</sup>/s (10.65 m<sup>3</sup>/s), 272,400 acre-ft/yr (336 hm<sup>3</sup>/yr) (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,200 ft<sup>3</sup>/s (1,110 m<sup>3</sup>/s) Dec. 22, 1955, gage height, 24.5 ft (7.468 m) present datum, from floodmarks, from rating curve extended above 8,100 ft<sup>3</sup>/s (229 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.60 ft<sup>3</sup>/s (0.017 m<sup>3</sup>/s) Sept. 15, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,900 ft<sup>3</sup>/s (280 m<sup>3</sup>/s) Jan. 13, gage height, 11.24 ft (3.426 m); minimum daily, 26 ft<sup>3</sup>/s (0.74 m<sup>3</sup>/s) Dec. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	46	290	2360	165	1650	213	163	59	44	88	106
2	100	61	245	1650	175	1260	181	153	56	44	91	105
3	100	125	215	1160	602	1020	187	147	53	44	93	100
4	100	92	198	858	949	865	251	138	55	44	93	100
5	100	85	140	766	790	1120	531	126	62	44	93	99
6	100	349	83	680	653	1360	751	119	58	44	91	101
7	100	201	81	571	527	1280	786	113	58	44	91	102
8	99	105	81	489	444	1100	679	111	55	44	91	101
9	98	84	79	502	387	918	635	137	52	44	91	101
10	99	73	79	704	339	663	580	160	48	44	91	101
11	98	68	62	1140	305	545	504	151	48	51	91	101
12	98	63	29	6520	277	530	444	142	47	57	91	102
13	98	60	28	9460	251	570	393	141	46	59	91	102
14	99	57	28	8370	234	1610	354	131	46	59	91	102
15	95	56	28	5500	224	2160	324	122	44	57	91	101
16	83	220	27	3510	239	1610	303	118	43	57	100	100
17	89	181	26	2640	780	1230	279	109	45	57	100	100
18	105	120	27	2030	3170	994	257	106	44	57	100	101
19	92	98	39	1560	5520	810	242	101	44	57	99	100
20	52	86	44	1190	4470	707	254	95	43	57	99	100
21	45	78	105	936	2950	629	295	90	45	57	99	100
22	61	75	162	760	2180	553	299	86	46	72	98	100
23	52	400	244	630	1780	494	278	100	48	88	98	100
24	145	1500	654	531	1400	334	262	95	47	88	98	100
25	361	1200	944	469	1190	249	244	91	47	88	98	100
26	79	1030	866	424	1010	286	227	85	46	88	98	100
27	62	960	721	395	1380	290	213	82	46	88	99	100
28	55	740	555	318	2340	281	199	78	46	88	106	100
29	50	506	459	138	2150	268	184	69	46	88	106	100
30	50	353	1080	148	---	248	172	67	44	88	106	100
31	48	---	2490	158	---	241	---	63	---	88	106	---
TOTAL	2913	9072	10109	56567	36881	25875	10521	3489	1467	1929	2978	3025
MEAN	94.0	302	326	1825	1272	835	351	113	48.9	62.2	96.1	101
MAX	361	1500	2490	9460	5520	2160	786	163	62	88	106	106
MIN	45	46	26	138	165	241	172	63	43	44	88	99
AC-FT	5780	17990	20050	112200	73150	51320	20870	6920	2910	3830	5910	6000
CAL YR 1979	TOTAL	85247	MEAN 234	MAX 2490	MIN 16	AC-FT 169100						
WTR YR 1980	TOTAL	164826	MEAN 450	MAX 9460	MIN 26	AC-FT 326900						

## 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 mi<sup>2</sup> (1,256 km<sup>2</sup>).

## 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), 68 mi (109 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).--33 years, 1,493 ft<sup>3</sup>/s (42.28 m<sup>3</sup>/s), 1,082,000 acre-ft/yr (1.33 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,000 ft<sup>3</sup>/s (2,290 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 30.7 ft (9.36 m) present datum, from high-water mark profile; minimum daily, 0.10 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) Aug. 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,500 ft<sup>3</sup>/s (552 m<sup>3</sup>/s) Jan. 14, gage height, 14.60 ft (4.450 m); minimum daily, 13 ft<sup>3</sup>/s (0.37 m<sup>3</sup>/s) July 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	495	1240	5380	671	5040	944	687	231	40	24	43
2	23	449	1230	4040	681	4190	824	617	207	62	29	39
3	22	1690	1220	3000	3000	3800	720	560	190	93	29	40
4	20	3160	963	2290	2950	3810	721	516	199	70	33	34
5	23	2820	856	2400	2460	4340	1260	475	196	72	34	28
6	33	2820	715	2480	2510	5050	2230	442	193	60	41	32
7	30	4140	581	1950	2020	4380	2270	403	170	35	39	30
8	27	2090	515	1680	1670	3910	1910	372	152	32	31	33
9	28	1380	472	2040	1420	3390	2480	649	131	37	38	33
10	27	958	440	3460	1200	3010	2240	1260	113	34	35	34
11	30	693	407	2980	1100	2650	1760	802	108	32	31	38
12	29	551	369	11500	948	2580	1500	697	105	32	33	27
13	34	429	303	17000	818	4290	1320	624	110	35	32	30
14	75	360	274	18100	722	11900	1220	581	110	31	34	34
15	125	308	268	12600	704	8030	1170	522	104	29	28	33
16	104	1130	246	7800	657	5490	1010	473	96	27	29	34
17	64	2870	236	6670	1270	4460	902	438	91	22	32	28
18	58	2550	215	5160	6290	4440	804	414	82	18	35	31
19	525	1990	318	4130	12200	3650	723	378	80	19	36	35
20	861	1460	826	3390	11200	3470	1700	352	77	19	37	41
21	1010	1070	1540	2710	7630	4340	3150	330	75	16	35	38
22	357	1400	1740	2250	5820	3510	2320	319	73	13	38	35
23	431	3260	1490	2030	4940	2740	1820	326	71	15	36	32
24	445	7180	3610	1850	4130	2210	1570	447	73	35	35	27
25	6760	4890	3450	1660	3710	1900	1390	418	77	39	38	22
26	2150	4100	2800	1470	3340	1690	1210	363	76	39	45	23
27	1130	3140	2140	1320	3870	1510	1060	337	66	36	33	30
28	898	2340	1730	1220	7260	1340	958	316	61	32	34	33
29	635	1850	1510	914	6290	1220	862	295	56	26	42	38
30	486	1490	2610	716	---	1130	767	272	48	25	46	28
31	586	---	5410	679	---	1020	---	246	---	27	45	---
TOTAL	17050	63063	39724	134869	101481	114490	42815	14931	3421	1102	1087	983
MEAN	550	2102	1281	4351	3499	3693	1427	482	114	35.5	35.1	32.8
MAX	6760	7180	5410	18100	12200	11900	3150	1260	231	93	46	43
MIN	20	308	215	679	657	1020	720	246	48	13	24	22
AC-FT	33820	125100	78790	267500	201300	227100	84920	29620	6790	2190	2160	1950
(†)	5500	5340	5380	5540	4730	5470	5130	5510	5370	5550	5720	5330
CAL YR 1979	TOTAL	369969	MEAN	1014	MAX	9810	MIN	13	AC-FT	733800		
WTR YR 1980	TOTAL	535016	MEAN	1462	MAX	18100	MIN	13	AC-FT	1061000		

† Diversion, in acre-feet, for municipal supply and industrial use; furnished by Humboldt Municipal Water District.

11481000 MAD RIVER NEAR ARCATA, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955 to current year.

CHEMICAL ANALYSES: Water years 1959 to current year.

WATER TEMPERATURES: Water years 1958 to January 1979 (discontinued).

SEDIMENT RECORDS: Water years 1955-74.

TURBIDITY: Water years 1971-74.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1957 to January 1979.

SEDIMENT RECORDS: December 1957 to September 1974.

INSTRUMENTATION.--Temperature recorder November 1960 to January 1979.

COOPERATION.--Chemical-quality records were furnished by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 27.0°C July 6, 27, 28, 1968, July 30, 1977; minimum recorded, 0.5°C Dec. 17-20, 1965.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)
NOV 05...	1320	2770	113	7.3	13.0	46	11.2	45
JAN 08...	1355	1630	--	7.6	10.0	26	11.3	--
MAR 03...	1235	3670	--	--	--	--	--	--
MAY 06...	0800	443	146	7.7	13.0	2.0	10.6	66
JUL 08...	1400	--	--	8.1	18.5	1.0	10.1	--
SEP 15...	1520	--	--	8.6	21.0	1.0	10.8	--

DATE	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)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	BORON, DIS- SOLVED (UG/L AS B)
NOV 05...	13	3.0	4.0	--	.3	--	4.0	100
JAN 08...	--	--	--	--	--	--	--	--
MAR 03...	--	--	--	--	--	--	--	--
MAY 06...	20	4.0	4.0	11	.2	.8	3.0	0
JUL 08...	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--

## LITTLE RIVER BASIN

337

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 mi<sup>2</sup> (104.9 km<sup>2</sup>).

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.--25 years, 141 ft<sup>3</sup>/s (3.993 m<sup>3</sup>/s), 102,200 acre-ft/yr (126 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft<sup>3</sup>/s (278 m<sup>3</sup>/s) Mar. 18, 1975, gage height, 14.19 ft (4.325 m), from rating curve extended above 3,100 ft<sup>3</sup>/s (87.8 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 14.08 ft (4.292 m); minimum daily, 2.8 ft<sup>3</sup>/s (0.079 m<sup>3</sup>/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.--Peak discharges above base of 3,000 ft<sup>3</sup>/s (85.0 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Nov. 24	1000	3150 89.2	7.16 2.182	Mar. 14	0915	*5880 167	9.89 3.014
Jan. 13	1900	4110 116	8.12 2.475				

Minimum daily discharge, 4.3 ft<sup>3</sup>/s (0.12 m<sup>3</sup>/s) Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	56	110	295	59	259	86	59	33	16	8.2	5.9
2	4.3	49	237	231	62	205	83	56	33	15	8.4	5.7
3	4.3	313	211	181	400	210	76	56	30	15	8.3	5.5
4	4.5	402	143	146	209	203	98	52	28	15	8.1	5.5
5	4.5	425	126	200	157	326	158	51	27	15	7.8	5.6
6	4.5	500	108	179	230	419	159	49	26	15	7.6	5.7
7	4.5	421	93	148	167	265	136	47	26	14	7.7	5.4
8	4.7	186	78	127	134	207	113	47	23	14	7.6	5.4
9	4.9	114	70	173	110	167	202	108	23	14	7.7	5.2
10	5.0	85	65	363	96	142	155	107	22	14	7.6	5.2
11	4.5	69	57	273	86	148	126	75	22	13	7.3	4.9
12	4.5	58	52	1020	78	144	104	66	23	12	7.6	4.9
13	4.4	51	48	1740	73	1210	91	60	24	12	7.3	4.9
14	14	46	45	1740	68	3270	84	59	23	12	7.3	5.2
15	23	42	42	965	63	870	74	56	22	12	7.1	5.2
16	10	327	42	893	58	510	68	50	21	12	6.6	4.8
17	7.5	608	39	800	91	386	64	45	21	11	6.6	5.1
18	12	455	41	473	284	400	62	43	20	11	6.6	5.0
19	99	417	114	328	644	286	65	41	20	11	6.5	5.9
20	171	228	261	246	749	299	328	40	19	11	6.6	6.1
21	78	149	486	196	457	504	401	41	19	10	6.2	5.8
22	46	299	312	161	336	347	223	40	18	10	6.0	5.4
23	45	383	253	135	271	278	155	44	18	10	6.2	5.2
24	239	1560	440	118	208	203	134	46	18	10	6.3	5.1
25	1030	804	442	105	202	189	115	41	22	10	6.3	5.0
26	147	598	330	93	220	158	101	38	19	9.6	6.3	5.2
27	90	331	230	84	272	139	89	37	17	9.3	6.2	5.0
28	76	224	161	78	569	125	81	35	17	8.8	6.0	5.1
29	58	165	130	71	377	110	72	34	16	8.5	5.8	4.9
30	49	129	477	65	---	99	66	33	16	8.2	5.9	4.9
31	66	---	323	61	---	94	---	35	---	8.3	6.0	---
TOTAL	2319.4	9494	5566	11688	6730	12172	3769	1591	666	366.7	215.7	158.7
MEAN	74.8	316	180	377	232	393	126	51.3	22.2	11.8	6.96	5.29
MAX	1030	1560	486	1740	749	3270	401	108	33	16	8.4	6.1
MIN	4.3	42	39	61	58	94	62	33	16	8.2	5.8	4.8
AC-FT	4600	18830	11040	23180	13350	24140	7480	3160	1320	727	428	315

CAL YR 1979	TOTAL	47107.0	MEAN 129	MAX 1920	MIN 4.3	AC-FT 93440
WTR YR 1980	TOTAL	54736.5	MEAN 150	MAX 3270	MIN 4.3	AC-FT 108600

## 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 mi<sup>2</sup> (175.3 km<sup>2</sup>).

## 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.--13 years, 257 ft<sup>3</sup>/s (7.278 m<sup>3</sup>/s), 186,200 acre-ft/yr (230 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft<sup>3</sup>/s (346 m<sup>3</sup>/s) Mar. 18, 1975, gage height, 13.70 ft (4.176 m), from rating curve extended above 6,400 ft<sup>3</sup>/s (181 m<sup>3</sup>/s); minimum daily, 2.6 ft<sup>3</sup>/s (0.074 m<sup>3</sup>/s) Aug. 24, Sept. 11-15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft<sup>3</sup>/s (54 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Oct. 25	0430	3040 86.1	7.95 2.423	Feb. 19	0830	2400 68.0	7.22 2.201
Nov. 24	0915	*4840 137	9.22 2.810	Mar. 14	1015	4270 121	8.85 2.697
Jan. 12	1745	4200 119	8.80 2.682				

Minimum daily discharge, 3.4 ft<sup>3</sup>/s (0.10 m<sup>3</sup>/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	124	240	586	196	516	293	169	81	35	12	6.7
2	4.3	139	299	421	193	440	264	160	74	33	12	6.7
3	3.9	320	254	343	670	474	248	148	69	33	13	6.7
4	3.9	467	213	309	417	460	269	146	74	33	14	6.7
5	3.6	463	192	509	347	592	424	122	78	33	14	6.3
6	3.6	776	177	432	359	526	519	116	72	33	13	6.3
7	3.6	562	168	362	303	450	406	110	66	32	13	6.3
8	3.4	323	151	331	268	403	345	105	65	32	13	6.3
9	3.6	242	139	454	244	368	502	201	64	31	13	6.3
10	3.6	191	137	548	225	339	421	182	66	31	13	6.3
11	3.6	162	128	655	211	349	363	148	65	29	12	6.3
12	3.6	162	125	2860	196	329	328	139	68	28	12	6.3
13	3.6	138	121	2580	183	732	317	135	69	27	12	6.3
14	14	125	108	2690	173	2450	321	133	63	26	12	6.3
15	55	112	104	1750	172	1230	312	123	63	24	10	6.3
16	23	409	99	1500	175	855	276	113	59	23	9.9	6.3
17	14	425	93	1340	379	747	252	105	57	22	9.9	5.9
18	22	403	93	924	1430	701	232	97	54	20	9.9	5.9
19	247	324	172	726	1830	603	223	95	52	19	9.4	7.1
20	291	264	196	497	1420	641	336	90	47	19	8.9	7.5
21	205	226	338	540	974	724	377	86	48	17	8.9	7.5
22	139	614	273	403	774	630	353	87	50	19	8.4	7.1
23	125	699	396	364	655	566	314	99	48	18	8.4	6.3
24	302	2770	602	338	567	513	294	119	41	17	7.9	6.3
25	1460	1050	438	294	530	489	270	111	44	16	7.9	6.3
26	330	705	364	283	485	446	256	105	43	16	7.1	5.6
27	216	477	312	257	695	411	247	103	40	15	7.1	5.5
28	177	378	259	228	934	373	213	98	37	14	7.1	5.5
29	130	316	233	233	639	351	203	84	35	13	7.1	5.5
30	143	271	462	190	---	331	184	84	36	13	6.7	5.5
31	154	---	800	190	---	311	---	78	---	12	6.7	---
TOTAL	4095.6	13637	7686	23137	15644	18350	9362	3691	1728	733	319.3	189.9
MEAN	132	455	248	746	539	592	312	119	57.6	23.6	10.3	6.33
MAX	1460	2770	800	2860	1830	2450	519	201	81	35	14	7.5
MIN	3.4	112	93	190	172	311	184	78	35	12	6.7	5.5
AC-FT	8120	27050	15250	45890	31030	36400	18570	7320	3430	1450	633	377

CAL YR 1979	TOTAL	74009.9	MEAN 203	MAX 2980	MIN 3.4	AC-FT 146800
WTR YR 1980	TOTAL	98572.8	MEAN 269	MAX 2860	MIN 3.4	AC-FT 195500



WATER-QUALITY RECORDS

EXTREMES FOR CURRENT YEAR.--  
 WATER TEMPERATURES: Maximum recorded, 29.0°C July 26-27; minimum recorded, 2.5°C Jan. 30.  
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,500 mg/L Jan. 12; minimum daily mean, 1 mg/L many days.  
 SEDIMENT DISCHARGE: Maximum daily, 28,600 tons (25,900 metric tons) Jan. 12; minimum daily, 0.01 ton  
 (0.01 metric ton) several days during October and September.

		SPECIFIC CONDUCTANCE (MICROMHOS)		PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CaCO3)
DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)						
NOV 05...	1320	2770	113	7.3	13.0	46	11.2	45
JAN 08...	1355	1630	--	7.6	10.0	26	11.3	--
MAR 03...	1235	3670	--	--	--	--	--	--
MAY 06...	0800	443	146	7.7	13.0	2.0	10.6	66
JUL 08...	1400	--	--	8.1	18.5	1.0	10.1	--
SEP 15...	1520	--	--	8.6	21.0	1.0	10.8	--
DATE	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)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	BORON, DIS-SOLVED (UG/L AS B)
NOV 05...	13	3.0	4.0	--	.3	--	4.0	100
JAN 08...	--	--	--	--	--	--	--	--
MAR 03...	--	--	--	--	--	--	--	--
MAY 06...	20	4.0	4.0	11	.2	.8	3.0	0
JUL 08...	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--



## REDWOOD CREEK BASIN

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11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4.3	1	.01	124	5	1.7	240	13	8.4			
2	4.3	1	.01	139	12	4.5	299	49	44			
3	3.9	1	.01	320	158	177	254	20	14			
4	3.9	1	.01	467	147	192	213	10	5.8			
5	3.6	2	.02	463	120	159	192	9	4.7			
6	3.6	1	.01	776	500	1540	177	12	5.7			
7	3.6	1	.01	562	240	364	168	7	3.2			
8	3.4	1	.01	323	42	37	151	7	2.9			
9	3.6	8	.08	242	15	9.8	139	11	4.1			
10	3.6	2	.02	191	7	3.6	137	6	2.2			
11	3.6	2	.02	162	7	3.1	128	25	8.6			
12	3.6	1	.01	162	5	2.2	125	6	2.0			
13	3.6	1	.01	138	6	2.2	121	10	3.3			
14	14	38	2.1	125	4	1.4	108	2	.58			
15	55	43	6.7	112	7	2.1	104	3	.84			
16	23	7	.43	409	172	197	99	5	1.3			
17	14	2	.08	425	85	98	93	10	2.5			
18	22	24	4.2	403	50	54	93	5	1.3			
19	247	299	214	324	25	22	172	49	26			
20	291	277	253	264	14	10	196	33	19			
21	205	92	51	226	10	6.1	338	144	145			
22	139	39	16	614	361	1050	273	36	27			
23	125	10	3.4	699	252	573	396	159	233			
24	302	202	525	2770	2400	21200	602	195	317			
25	1460	1130	5860	1050	724	2020	438	130	154			
26	330	45	40	705	300	571	364	58	57			
27	216	22	13	477	150	193	312	17	14			
28	177	15	7.2	378	70	71	259	15	10			
29	130	12	4.2	316	30	26	233	9	5.7			
30	143	18	6.9	271	17	12	462	380	575			
31	154	8	3.3	---	---	---	800	451	984			
TOTAL	4095.6	---	7010.74	13637	---	28602.7	7686	---	2682.12			
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)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	586	228	361	196	12	6.4	516	72	100			
2	421	70	80	193	22	15	440	46	55			
3	343	25	23	670	340	666	474	86	118			
4	309	15	13	417	50	56	460	55	68			
5	509	196	305	347	30	28	592	145	233			
6	432	90	105	359	20	19	526	68	97			
7	362	22	22	303	12	9.8	450	46	56			
8	331	30	27	268	12	8.7	403	28	30			
9	454	144	205	244	9	5.9	368	25	25			
10	548	165	244	225	5	3.0	339	30	27			
11	655	305	947	211	5	2.8	349	33	31			
12	2860	3500	28600	196	5	2.6	329	20	18			
13	2580	2390	18100	183	5	2.5	732	580	1330			
14	2690	2190	16900	173	3	1.4	2450	2320	18500			
15	1750	800	3780	172	6	2.8	1230	530	1760			
16	1500	816	3350	175	7	3.3	855	260	600			
17	1340	560	2030	379	121	157	747	156	315			
18	924	290	723	1430	1830	7550	701	117	221			
19	726	145	284	1830	1380	7130	603	85	138			
20	497	100	134	1420	650	2490	641	107	190			
21	540	50	73	974	312	820	724	100	195			
22	403	40	44	774	156	326	630	76	129			
23	364	32	31	655	90	159	566	70	107			
24	338	20	18	567	68	104	513	40	55			
25	294	15	12	530	52	74	489	42	55			
26	283	13	9.9	485	40	52	446	26	31			
27	257	12	8.3	695	475	1120	411	24	27			
28	228	9	5.5	934	460	1220	373	16	16			
29	233	8	5.0	639	142	245	351	15	14			
30	190	8	4.1	---	---	---	331	10	8.9			
31	190	9	4.6	---	---	---	311	11	9.2			
TOTAL	23137	---	76448.4	15644	---	22280.2	18350	---	24559.1			

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

APRIL				MAY				JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	293	10	7.9	169	5	2.3	81	5	1.1	
2	264	10	7.1	160	5	2.2	74	4	.80	
3	248	8	5.4	148	5	2.0	69	2	.37	
4	269	12	8.7	146	5	2.0	74	2	.40	
5	424	106	136	122	6	2.0	78	2	.42	
6	519	155	234	116	6	1.9	72	2	.39	
7	406	36	39	110	5	1.5	66	2	.36	
8	345	20	19	105	5	1.4	65	2	.35	
9	502	130	206	201	47	31	64	2	.35	
10	421	40	45	182	18	8.8	66	3	.53	
11	363	20	20	148	7	2.8	65	3	.53	
12	328	15	13	139	8	3.0	68	6	1.1	
13	317	10	8.6	135	7	2.6	69	3	.56	
14	321	16	14	133	6	2.2	63	5	.85	
15	312	10	8.4	123	6	2.0	63	5	.85	
16	276	10	7.5	113	5	1.5	59	2	.32	
17	252	10	6.8	105	5	1.4	57	2	.31	
18	232	7	4.4	97	4	1.0	54	2	.29	
19	223	7	4.2	95	4	1.0	52	1	.14	
20	336	62	69	90	8	1.9	47	1	.13	
21	377	35	36	86	8	1.9	48	1	.13	
22	353	20	19	87	8	1.9	50	1	.14	
23	314	16	14	99	8	2.1	48	1	.13	
24	294	14	11	119	9	2.9	41	1	.11	
25	270	12	8.7	111	5	1.5	44	1	.12	
26	256	12	8.3	105	4	1.1	43	2	.23	
27	247	10	6.7	103	3	.83	40	3	.32	
28	213	10	5.8	98	3	.79	37	2	.20	
29	203	9	4.9	84	3	.68	35	2	.19	
30	184	9	4.5	84	3	.68	36	1	.10	
31	---	---	---	78	5	1.1	---	---	---	
TOTAL	9362	---	982.9	3691	---	89.98	1728	---	11.82	
JULY				AUGUST				SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	35	1	.09	12	1	.03	6.7	1	.02	
2	33	2	.18	12	1	.03	6.7	1	.02	
3	33	2	.18	13	2	.07	6.7	1	.02	
4	33	3	.27	14	3	.11	6.7	2	.04	
5	33	5	.45	14	2	.08	6.3	3	.05	
6	33	2	.18	13	1	.04	6.3	4	.07	
7	32	2	.17	13	2	.07	6.3	3	.05	
8	32	2	.17	13	1	.04	6.3	2	.03	
9	31	2	.17	13	1	.04	6.3	2	.03	
10	31	2	.17	13	1	.04	6.3	1	.02	
11	29	2	.16	12	1	.03	6.3	1	.02	
12	28	2	.15	12	2	.06	6.3	1	.02	
13	27	2	.15	12	3	.10	6.3	2	.03	
14	26	2	.14	12	2	.06	6.3	2	.03	
15	24	2	.13	10	1	.03	6.3	2	.03	
16	23	1	.06	9.9	2	.05	6.3	2	.03	
17	22	1	.06	9.9	2	.05	5.9	2	.03	
18	20	1	.05	9.9	2	.05	5.9	3	.05	
19	19	1	.05	9.4	2	.05	7.1	4	.08	
20	19	1	.05	8.9	2	.05	7.5	3	.06	
21	17	2	.09	8.9	2	.05	7.5	2	.04	
22	19	1	.05	8.4	2	.05	7.1	1	.02	
23	18	2	.10	8.4	2	.05	6.3	1	.02	
24	17	3	.14	7.9	2	.04	6.3	1	.02	
25	16	3	.13	7.9	1	.02	6.3	1	.02	
26	16	2	.09	7.1	1	.02	5.6	2	.03	
27	15	2	.08	7.1	1	.02	5.5	2	.03	
28	14	2	.08	7.1	1	.02	5.5	3	.04	
29	13	1	.04	7.1	1	.02	5.5	2	.03	
30	13	1	.04	6.7	1	.02	5.5	1	.01	
31	12	1	.03	6.7	1	.02	---	---	---	
TOTAL	733	---	3.90	319.3	---	1.41	189.9	---	.99	
YEAR	98572.8		162674.26							

## REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

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## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1979	4095.60	7010.74	1230	8240
NOVEMBER ...	13637.00	28602.70	5290	33900
DECEMBER ...	7686.00	2682.12	1520	4200
JANUARY 1980	23137.00	76448.40	11600	88000
FEBRUARY ...	15644.00	22280.20	6820	29100
MARCH .....	18350.00	24559.10	7810	32400
APRIL .....	9362.00	982.90	1840	2820
MAY .....	3691.00	89.98	42	132
JUNE .....	1728.00	11.82	0	12
JULY .....	733.00	3.90	0	4
AUGUST .....	319.30	1.41	0	1
SEPTEMBER ..	189.90	0.99	0	1
TOTAL .....	98572.80	162674.26	36152	198810

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
NOV 05...	1400	11.0	458	102	126	--	--	--	--	--	--
DEC 21...	0900	--	343	410	380	37	51	65	78	83	--
30...	1020	7.0	677	616	1130	21	30	41	52	63	--
JAN 12...	1520	10.0	2810	3280	24900	--	21	31	41	53	61
13...	1620	9.5	2010	1430	7760	--	22	33	43	53	61
14...	1415	9.0	3090	2440	20400	--	18	27	35	48	53
15...	1030	8.5	1730	837	3910	19	27	36	45	55	63
18...	0800	5.0	984	318	845	--	--	--	--	--	--
FEB 18...	1200	9.5	1550	1760	7370	--	25	35	48	59	73
MAR 03...	1330	9.0	430	117	136	--	--	--	--	--	--
14...	0925	8.0	3970	4590	49200	--	26	34	48	62	75

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV 05...	83	--	85	--	90	--	98	--	100	--
DEC 21...	85	--	87	--	91	--	97	--	100	--
30...	72	--	78	--	86	--	96	--	100	--
JAN 12...	--	70	--	82	--	97	--	100	--	--
13...	--	74	--	81	--	97	--	100	--	--
14...	--	61	--	73	--	95	--	100	--	--
15...	--	74	--	89	--	100	--	--	--	--
18...	51	--	58	--	65	--	79	--	97	100
FEB 18...	--	84	--	95	--	99	--	100	--	--
MAR 03...	86	--	91	--	94	--	99	--	100	--
14...	--	87	--	96	--	100	--	--	--	--

## REDWOOD CREEK BASIN

11482125 PANTHER CREEK NEAR ORICK, CA

LOCATION.--Lat 41°05'19", long 123°54'26", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank 300 ft (91 m) upstream from mouth, 16 mi (26 km) southeast of Orick, Ca.

DRAINAGE AREA.--6.07 mi<sup>2</sup> (15.72 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m), from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 250 ft<sup>3</sup>/s (7.08 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Nov. 24	unknown	282 7.99	unknown	Mar. 14	unknown	*405 11.5	unknown
Jan. 13	1715	385 10.9	3.27 0.997				

Minimum daily discharge, 0.43 ft<sup>3</sup>/s (0.012 m<sup>3</sup>/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	17	46	43	25	54	28	17	8.9	5.2	2.3	1.0
2	.75	16	56	43	25	51	26	17	8.8	5.2	2.3	1.0
3	.72	27	45	39	48	53	25	15	8.4	5.2	2.3	1.0
4	.51	36	40	37	33	48	26	14	8.4	4.8	2.3	1.0
5	.43	36	37	43	32	56	31	14	8.4	4.8	2.3	1.0
6	.56	36	35	38	35	62	34	14	8.3	4.8	2.1	1.0
7	.62	37	32	36	31	52	29	14	8.0	4.8	2.3	1.0
8	.62	31	29	36	29	48	26	13	7.9	4.8	2.3	1.0
9	.62	28	29	39	28	45	34	22	7.6	4.8	2.3	1.0
10	.62	26	27	47	27	42	29	18	7.6	4.8	2.3	1.0
11	.62	25	23	48	26	55	27	16	7.6	4.4	2.3	1.0
12	.62	23	23	133	25	53	25	15	7.6	4.4	2.3	1.0
13	.62	21	23	196	24	140	23	15	7.6	4.4	2.0	1.0
14	4.1	21	21	241	23	270	23	15	7.6	4.1	2.0	1.0
15	3.1	21	21	188	23	158	23	14	7.2	4.1	2.0	1.0
16	1.7	30	21	174	22	118	22	13	7.2	4.0	2.0	.89
17	1.4	29	20	145	27	99	21	12	6.8	3.8	2.0	.89
18	5.9	32	19	113	43	89	20	12	6.4	3.8	2.0	.89
19	18	33	27	109	58	78	19	11	6.1	3.8	1.7	1.1
20	25	32	32	92	64	74	32	11	6.1	3.5	1.7	1.2
21	14	33	41	79	61	75	29	11	6.1	3.5	1.4	1.2
22	13	42	36	69	57	67	25	11	6.1	3.5	1.4	1.2
23	11	90	45	60	54	61	24	11	6.1	3.5	1.4	1.2
24	28	195	59	53	51	56	22	11	5.8	3.5	1.2	1.2
25	77	152	54	47	53	50	22	11	5.8	3.2	1.2	.91
26	29	117	49	43	54	47	21	10	5.8	3.2	1.2	.89
27	25	91	45	38	58	42	20	10	5.8	2.9	1.2	.89
28	22	76	40	34	72	38	20	10	5.5	2.6	1.2	.89
29	18	63	38	30	64	35	19	9.7	5.4	2.6	1.2	.89
30	18	51	58	28	---	32	18	9.2	5.2	2.6	1.1	.89
31	19	---	52	26	---	29	---	8.9	---	2.6	1.0	---
TOTAL	341.31	1467	1123	2347	1172	2177	743	404.8	210.1	123.2	56.3	30.13
MEAN	11.0	48.9	36.2	75.7	40.4	70.2	24.8	13.1	7.00	3.97	1.82	1.00
MAX	77	195	59	241	72	270	34	22	8.9	5.2	2.3	1.2
MIN	.43	16	19	26	22	29	18	8.9	5.2	2.6	1.0	.89
AC-FT	677	2910	2230	4660	2320	4320	1470	803	417	244	112	60

WTR YR 1980 TOTAL 10194.84 MEAN 27.9 MAX 270 MIN .43 AC-FT 20220

11482125 PANTHER CREEK NEAR ORICK, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

WATER TEMPERATURES: Water year 1980.

SEDIMENT RECORDS: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1979 to September 1980 (discontinued).

INSTRUMENTATION.--Temperature recorder since December 1979.

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

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded,  $18.0^{\circ}\text{C}$  July 29; minimum recorded,  $5.0^{\circ}\text{C}$  Jan. 29, 30.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1					---	---	10.0	9.5	7.0	6.5	10.0	9.5
2					---	---	9.5	8.5	---	---	10.0	9.5
3					---	---	9.0	8.5	---	---	10.0	9.5
4					---	---	9.5	8.5	---	---	9.5	8.5
5					---	---	10.0	9.5	9.5	9.0	9.0	9.0
6					---	---	10.0	10.0	9.5	9.0	9.0	9.0
7					---	---	10.0	9.5	9.0	8.0	9.0	8.5
8					---	---	9.5	9.5	---	---	9.5	8.5
9					---	---	9.5	9.0	---	---	9.5	8.5
10					---	---	9.5	8.0	---	---	9.5	8.0
11					---	---	10.0	8.5	---	---	9.0	8.0
12					---	---	11.5	10.5	---	---	8.5	7.5
13					---	---	11.5	11.5	---	---	9.0	8.5
14					---	---	11.5	11.0	---	---	10.0	9.5
15					---	---	11.0	10.5	---	---	9.5	9.0
16					---	---	11.0	10.5	---	---	9.5	8.5
17					---	---	11.0	9.5	---	---	9.0	9.0
18					---	---	9.5	8.5	---	---	10.0	9.0
19					9.0	9.0	8.5	8.0	9.5	9.5	10.0	8.5
20					9.0	9.0	9.0	8.5	9.5	9.0	10.0	8.5
21					9.0	8.5	9.0	8.5	9.5	9.0	9.5	8.0
22					8.5	7.5	9.5	9.0	9.5	9.0	10.0	8.5
23					8.0	8.0	9.5	9.5	9.5	8.5	10.0	9.5
24					8.5	8.0	9.5	9.0	10.0	9.5	9.5	8.5
25					8.5	8.5	9.5	8.5	10.0	10.0	9.5	8.0
26					8.5	8.0	8.5	7.5	10.5	10.0	9.5	9.0
27					8.0	7.5	7.5	6.5	10.5	10.0	9.5	8.0
28					8.5	8.0	6.5	6.0	10.0	9.5	9.5	8.0
29					9.0	8.5	6.0	5.0	10.0	9.0	10.0	8.5
30					9.5	9.0	6.0	5.0	---	---	9.5	8.0
31					10.0	9.5	6.5	6.0	---	---	9.0	8.0
MONTH					---	---	11.5	5.0	---	---	10.0	7.5

## REDWOOD CREEK BASIN

11482125 PANTHER CREEK NEAR ORICK, CA--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	7.5	11.5	9.0	11.0	10.5	14.5	12.5	17.0	13.5	14.0	12.0
2	9.0	7.0	11.5	10.0	11.0	9.5	14.5	13.0	16.5	14.0	14.0	12.5
3	8.0	7.5	11.5	9.5	11.0	10.0	14.0	13.0	16.5	13.5	14.5	13.0
4	9.0	8.0	11.0	10.0	10.0	9.5	13.0	12.0	16.5	14.0	15.0	13.0
5	9.0	8.5	10.5	9.5	10.5	9.5	14.0	12.0	16.0	13.5	15.0	13.0
6	9.0	8.5	11.0	10.0	11.0	9.0	14.0	12.0	16.0	13.5	14.5	13.5
7	9.0	8.0	11.5	9.5	12.0	9.5	13.5	13.0	15.0	12.5	15.0	13.0
8	10.0	8.5	11.0	9.5	12.0	10.5	13.0	13.0	15.5	13.0	15.0	13.0
9	9.5	8.5	10.0	9.0	12.5	11.0	13.5	12.5	16.0	13.0	15.0	13.0
10	9.5	8.0	9.5	8.5	12.0	11.0	14.0	12.5	16.0	13.5	14.5	13.5
11	10.0	8.0	9.5	9.5	11.0	11.0	14.5	13.0	16.0	14.0	15.0	14.0
12	10.5	8.5	10.0	9.5	11.0	10.5	15.0	13.5	16.0	14.5	14.5	13.0
13	11.0	9.0	10.0	9.5	11.0	11.0	15.0	13.0	16.0	13.5	14.5	13.0
14	10.0	9.5	10.0	9.5	11.5	10.5	15.0	13.5	16.0	13.5	13.0	11.0
15	10.5	9.0	11.0	9.0	13.0	11.0	15.5	13.0	15.0	13.0	13.5	11.0
16	10.5	9.0	11.0	9.0	12.0	11.5	16.0	14.0	15.5	12.5	13.0	10.5
17	11.0	9.5	11.0	8.5	13.5	11.5	16.0	14.0	15.0	13.0	13.0	10.5
18	11.0	9.0	11.5	10.0	13.5	11.0	15.5	14.0	15.5	13.5	13.0	12.0
19	11.0	9.5	12.0	10.0	13.0	11.5	16.0	13.5	15.0	12.5	13.5	13.0
20	10.5	9.0	12.0	10.0	13.5	11.5	16.5	14.5	15.0	12.5	13.5	12.5
21	9.0	8.5	10.5	10.0	12.5	10.5	16.5	14.5	15.0	12.5	13.5	12.0
22	9.5	9.0	10.5	9.5	12.5	11.5	16.5	15.0	15.0	13.0	13.0	11.0
23	10.0	9.5	9.5	9.0	13.0	11.5	16.5	15.0	15.0	12.5	13.5	11.5
24	10.0	9.5	10.0	9.0	12.0	11.5	16.5	14.5	15.0	13.0	13.5	12.5
25	10.5	9.0	10.0	9.0	12.5	11.5	16.5	14.0	15.0	13.5	14.0	12.5
26	11.0	9.0	10.5	8.5	13.0	11.0	17.0	15.0	15.0	13.0	13.5	13.0
27	11.0	9.0	10.0	9.0	14.0	11.5	17.5	16.0	15.0	13.5	13.5	13.5
28	11.0	10.0	11.0	9.5	14.5	12.0	17.5	16.0	15.0	12.5	14.0	13.0
29	11.0	9.5	12.0	10.0	14.0	13.0	18.0	15.5	14.0	12.5	14.0	13.0
30	11.0	9.0	12.5	10.5	14.5	12.0	17.5	15.0	14.0	11.5	13.5	12.0
31	---	---	12.5	10.5	---	---	17.0	15.0	14.5	12.5	---	---
MONTH	11.0	7.0	12.5	8.5	14.5	9.0	18.0	12.0	17.0	11.5	15.0	10.5
YEAR	18.0	5.0										

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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
OCT								
02...	1545	14.0	.75	5	.01	--	--	--
NOV								
29...	1150	10.0	64	40	6.9	--	--	--
DEC								
19...	1120	9.0	22	8	.48	--	--	--
JAN								
02...	1330	9.0	44	9	1.1	--	--	--
16...	1205	10.0	199	244	131	--	--	--
31...	1630	7.0	25	6	.40	--	--	--
FEB								
19...	1240	9.5	56	27	4.1	--	--	--
27...	1305	10.5	69	61	11	--	--	--
MAR								
14...	1235	10.0	282	407	310	--	--	--
14...	1445	--	246	403	268	8	12	18
15...	1530	9.0	147	175	69	--	--	--
APR								
08...	1530	10.0	29	4	.31	--	--	--
21...	1310	9.5	26	5	.35	--	--	--
MAY								
07...	1630	11.5	14	2	.08	--	--	--
JUN								
03...	1040	10.0	8.4	3	.07	--	--	--
30...	1240	13.0	5.2	7	.10	--	--	--
AUG								
06...	1530	16.0	2.3	5	.03	--	--	--
SEP								
03...	1530	14.5	1.0	0	.00	--	--	--



## REDWOOD CREEK BASIN

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11482125 PANTHER CREEK NEAR ORICK, CA--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT								
02...	--	--	62	--	--	--	--	--
NOV								
29...	--	--	37	--	--	--	--	--
DEC								
19...	--	--	48	--	--	--	--	--
JAN								
02...	--	--	56	--	--	--	--	--
16...	--	--	47	53	61	73	87	96
31...	--	--	53	--	--	--	--	--
FEB								
19...	--	--	55	--	--	--	--	--
27...	--	--	65	--	--	--	--	--
MAR								
14...	--	--	46	--	--	--	--	--
14...	25	32	41	48	54	65	77	92
15...	--	--	30	--	--	--	--	--
APR								
08...	--	--	63	--	--	--	--	--
21...	--	--	53	--	--	--	--	--
MAY								
07...	--	--	45	--	--	--	--	--
JUN								
03...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
AUG								
06...	--	--	57	--	--	--	--	--
SEP								
03...	--	--	--	--	--	--	--	--

## REDWOOD CREEK BASIN

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, 1900 ft (579 m) upstream from mouth, and 15 mi (24 km) southeast of Orick.

DRAINAGE AREA.--7.78 mi<sup>2</sup> (20.15 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 450 ft (137 m), from topographic map.

REMARKS.--Records fair except those for period Aug. 8 to Sept. 30, which are poor. No regulation or diversion above station.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 650 ft<sup>3</sup>/s (18.4 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Oct. 25	0045	817	23.1	3.64	1.109	Jan. 12	1830	*1120	31.7	4.14	1.262
Nov. 24	0700	745	21.1	3.51	1.070	Mar. 14	0515	768	21.7	3.46	1.055

Minimum daily discharge, 0.14 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) Oct. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	26	25	96	12	93	10	8.8	4.0	1.4	.60	.34
2	.17	24	165	64	23	74	9.2	8.1	4.0	1.3	.60	.34
3	.17	88	98	46	132	73	8.8	7.4	3.7	1.2	.60	.34
4	.17	153	67	38	53	64	20	7.0	3.7	1.1	.60	.34
5	.16	136	53	76	45	113	68	6.9	3.7	1.1	.60	.34
6	.14	157	41	53	53	107	94	6.4	3.5	1.1	.60	.34
7	.14	111	30	40	36	77	49	6.2	3.5	1.1	.60	.34
8	.22	70	25	32	29	60	34	5.9	3.3	1.1	.60	.34
9	.24	48	21	57	24	48	80	23	3.3	1.1	.60	.34
10	.17	35	19	88	20	39	46	16	3.1	1.1	.60	.34
11	.17	26	16	101	17	46	33	11	3.1	1.1	.60	.34
12	.17	20	14	678	15	41	31	9.4	3.1	1.1	.56	.34
13	.17	16	12	550	13	294	20	8.9	3.1	1.0	.52	.34
14	9.3	13	11	436	12	490	18	8.3	2.9	.93	.52	.34
15	3.8	12	10	254	11	218	15	8.0	2.9	.87	.52	.34
16	1.4	112	9.4	247	9.9	122	12	7.1	2.5	.82	.52	.34
17	.84	108	9.0	199	37	105	11	6.9	2.5	.77	.52	.34
18	23	126	11	129	169	102	9.3	6.7	2.5	.73	.47	.34
19	100	96	69	93	245	67	8.7	5.9	2.3	.69	.47	.60
20	212	64	100	70	221	90	52	5.8	2.2	.66	.47	.95
21	66	47	204	53	164	91	39	5.4	2.0	.66	.43	1.2
22	87	193	103	42	128	65	25	5.3	2.0	.66	.40	1.2
23	48	189	225	33	98	46	20	5.4	2.0	.66	.40	1.2
24	223	468	237	28	78	35	18	5.9	2.0	.66	.40	1.2
25	367	257	162	24	90	33	16	5.6	2.5	.66	.40	1.0
26	97	158	105	21	93	27	14	5.1	2.0	.64	.37	.93
27	64	95	73	18	134	21	13	5.0	1.9	.62	.37	.93
28	45	65	53	16	177	17	11	4.8	1.8	.62	.37	.93
29	31	44	41	14	122	15	10	4.5	1.5	.62	.37	.93
30	30	32	88	12	---	13	9.6	4.3	1.4	.61	.37	.93
31	36	---	90	12	---	12	---	4.2	---	.60	.34	---
TOTAL	1446.60	2989	2186.4	3620	2260.9	2698	804.6	229.2	82.0	27.28	15.39	18.12
MEAN	46.7	99.6	70.5	117	78.0	87.0	26.8	7.39	2.73	.88	.50	.60
MAX	367	468	237	678	245	490	94	23	4.0	1.4	.60	1.2
MIN	.14	12	9.0	12	9.9	12	8.7	4.2	1.4	.60	.34	.34
AC-FT	2870	5930	4340	7180	4480	5350	1600	455	163	54	31	36

WTR YR 1980 TOTAL 16377.49 MEAN 44.7 MAX 678 MIN .14 AC-FT 32480

11482130 COYOTE CREEK NEAR ORICK, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1979 to September 1980.

WATER TEMPERATURES: December 1979 to September 1980.

SEDIMENT RECORDS: November 1979 to September 1980.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1979 to September 1980 (discontinued).

INSTRUMENTATION.--Temperature recorder since December 1979.

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 CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded,  $29.5^{\circ}\text{C}$  July 27-28; minimum recorded,  $5.5^{\circ}\text{C}$  Dec. 15-16.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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

## REDWOOD CREEK BASIN

11482130 COYOTE CREEK NEAR ORICK, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	7.0	---	---	---	---	24.0	14.5	26.5	16.0	24.0	14.0
2	12.0	6.5	---	---	---	---	23.0	15.0	25.5	16.0	23.0	14.5
3	9.0	7.0	---	---	---	---	21.0	15.0	26.5	16.0	24.0	15.0
4	9.0	8.5	---	---	15.0	9.5	19.0	13.5	27.0	16.5	24.5	15.5
5	9.5	8.0	---	---	15.5	11.0	20.5	14.0	25.5	15.5	24.5	16.0
6	9.0	8.0	---	---	17.5	10.0	21.5	14.0	25.0	15.5	23.5	16.5
7	10.0	7.5	---	---	19.0	11.5	20.0	15.0	25.0	14.5	23.5	16.0
8	10.5	8.5	---	---	19.5	14.0	17.0	15.5	25.0	15.5	24.5	15.5
9	11.0	8.0	---	---	20.0	14.0	19.0	14.5	25.0	15.0	23.5	15.5
10	9.5	7.5	---	---	18.0	15.0	23.5	14.5	25.5	15.0	22.5	16.0
11	9.0	8.5	---	---	16.5	14.5	23.0	15.5	23.0	16.5	23.0	16.5
12	8.5	7.0	13.0	10.5	16.5	14.0	23.5	16.5	25.0	17.0	22.0	15.5
13	7.5	7.0	12.0	10.5	17.5	14.0	24.0	15.0	24.5	16.0	20.0	14.5
14	7.5	7.0	14.0	10.0	20.0	14.5	24.0	17.0	24.0	16.5	20.0	12.5
15	8.0	7.5	17.0	9.5	---	---	26.0	15.5	23.5	14.5	21.0	12.5
16	---	---	16.5	10.0	---	---	26.5	17.0	24.0	14.5	21.0	12.0
17	---	---	18.0	9.0	---	---	26.0	16.5	24.5	14.5	20.5	12.0
18	---	---	18.5	11.0	---	---	25.0	16.5	23.0	16.5	20.0	15.0
19	---	---	19.0	11.5	---	---	26.5	16.0	23.5	14.0	21.5	15.5
20	---	---	19.0	11.5	---	---	27.5	17.5	25.0	15.0	20.0	15.0
21	---	---	14.0	11.0	---	---	27.0	17.5	24.5	15.5	20.0	14.0
22	---	---	14.5	9.5	---	---	24.5	18.5	24.5	15.0	21.0	12.0
23	---	---	12.0	8.5	---	---	26.5	19.0	24.5	15.0	21.5	13.0
24	---	---	13.5	9.0	---	---	26.5	17.5	24.5	16.0	22.0	14.0
25	---	---	14.5	8.5	---	---	27.5	16.0	24.5	16.5	22.0	14.5
26	---	---	15.5	8.0	---	---	28.5	18.0	23.0	16.0	20.0	15.5
27	---	---	14.0	9.5	---	---	29.5	19.5	23.0	17.0	20.0	15.5
28	---	---	16.5	10.0	---	---	29.5	19.5	23.5	15.0	21.0	15.5
29	---	---	17.5	10.5	---	---	29.0	19.0	22.5	14.5	21.0	15.5
30	---	---	---	---	---	---	28.5	18.0	23.0	13.5	20.5	13.0
31	---	---	---	---	---	---	27.0	17.0	23.5	15.0	---	---
MONTH	---	---	---	---	---	---	29.5	13.5	27.0	13.5	24.5	12.0

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
NOV											
29...	1440	10.0	42	19	2.2	--	--	--	--	--	--
DEC											
19...	1440	9.0	45	70	8.5	--	--	--	--	--	--
JAN											
03...	1215	7.5	49	18	2.4	--	--	--	--	--	--
15...	1415	10.0	239	219	141	30	40	51	63	76	--
31...	1355	6.0	12	11	.36	--	--	--	--	--	--
FEB											
05...	1415	9.5	34	25	2.3	--	--	--	--	--	--
19...	1635	10.0	277	467	349	--	--	--	--	--	--
27...	1510	10.5	187	513	259	--	--	--	--	--	--
MAR											
13...	1405	9.0	422	1830	2090	--	--	--	--	--	--
14...	1405	9.0	473	1640	2090	--	28	39	53	65	72
14...	1535	9.0	404	1880	2050	--	--	--	--	--	--
15...	1105	9.0	224	296	179	--	--	--	--	--	--
15...	1330	9.5	215	245	142	--	--	--	--	--	--
17...	1320	8.0	122	144	47	--	--	--	--	--	--
APR											
08...	1300	11.5	34	21	1.9	--	--	--	--	--	--
21...	1210	10.0	38	28	2.9	--	--	--	--	--	--
MAY											
07...	1445	11.0	6.2	5	.08	--	--	--	--	--	--
JUN											
03...	1315	15.0	3.7	4	.04	--	--	--	--	--	--
30...	1515	23.5	1.4	3	.01	--	--	--	--	--	--
AUG											
06...	1215	24.0	.60	6	.01	--	--	--	--	--	--
SEP											
03...	1225	22.0	.34	1	.00	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

## 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 mi<sup>2</sup> (479 km<sup>2</sup>).

## 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.--10 years, 738 ft<sup>3</sup>/s (20.90 m<sup>3</sup>/s), 534,700 acre-ft/yr (659 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,000 ft<sup>3</sup>/s (935 m<sup>3</sup>/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, 4.5 ft<sup>3</sup>/s (0.13 m<sup>3</sup>/s) Oct. 17-21, 23, 26, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,900 ft<sup>3</sup>/s (167 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Oct. 25	0415	6380 181	11.06 3.371	Jan 12	2030	*13700 388	15.59 4.752
Nov. 24	1130	11800 334	14.57 4.441	Mar. 14	0930	13300 377	15.37 4.685

Minimum daily discharge, 11 ft<sup>3</sup>/s (0.31 m<sup>3</sup>/s) several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	396	800	1460	490	1810	711	435	179	85	27	16
2	12	378	1030	1140	520	1490	668	393	181	81	26	16
3	11	803	1140	947	1810	1450	623	373	173	77	26	16
4	11	1370	1030	821	1220	1460	661	354	171	79	27	16
5	11	1440	900	1130	1040	1750	998	337	177	71	27	16
6	11	1600	800	1040	1150	1820	1330	321	163	79	27	16
7	11	1200	705	861	994	1490	1090	313	153	77	27	14
8	12	960	625	751	840	1280	919	303	146	77	27	13
9	15	790	560	927	740	1130	1340	529	142	77	26	12
10	12	630	505	1480	670	1010	1140	586	146	75	25	11
11	12	480	465	1300	600	1010	947	420	144	71	25	11
12	11	420	435	7200	560	953	837	390	146	67	23	11
13	11	385	400	8720	530	2450	771	370	153	63	22	11
14	50	360	375	8770	500	9020	752	359	148	60	22	12
15	105	345	361	5850	470	4810	723	339	140	57	22	12
16	84	1000	342	4100	455	3220	674	312	133	53	22	12
17	49	1090	326	3300	783	2540	617	304	131	46	22	12
18	66	940	336	2680	2370	2380	543	290	124	46	18	12
19	653	760	652	2120	3690	2000	514	277	118	45	19	12
20	1070	670	883	1750	3590	1940	824	264	113	45	19	13
21	656	600	1500	1450	2630	2100	942	259	109	41	19	13
22	533	1000	1170	1250	2160	1820	810	242	108	38	20	13
23	448	1400	1450	1080	1810	1590	729	261	108	41	19	13
24	777	7600	2410	945	1530	1420	687	296	107	41	18	12
25	3970	5000	1790	885	1540	1330	637	264	116	36	18	12
26	1200	3300	1360	775	1500	1200	585	242	110	34	17	12
27	717	2100	1060	700	1800	1090	537	230	101	33	17	12
28	564	1420	877	640	2830	961	499	220	96	32	18	12
29	433	1140	766	580	2270	885	466	209	92	28	17	12
30	403	910	1190	540	---	807	452	196	90	27	17	12
31	484	---	1590	510	---	758	---	187	---	27	16	---
TOTAL	12414	40487	27833	65702	41092	58974	23026	9875	4018	1709	675	387
MEAN	400	1350	898	2119	1417	1902	768	319	134	55.1	21.8	12.9
MAX	3970	7600	2410	8770	3690	9020	1340	586	181	85	27	16
MIN	11	345	326	510	455	758	452	187	90	27	16	11
AC-FT	24620	80310	55210	130300	81510	117000	45670	19590	7970	3390	1340	768

CAL YR 1979	TOTAL	226044	MEAN 619	MAX 8170	MIN 11	AC-FT 448400
WTR YR 1980	TOTAL	286192	MEAN 782	MAX 9020	MIN 11	AC-FT 567700

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 1974-80.

SEDIMENT RECORDS: Water years 1971 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1973 to April 1980 (discontinued).

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, 19.0°C Oct. 1, 2; minimum recorded, 3.0°C Jan. 29-30.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	17.0	12.5	11.0	9.5	8.5	9.5	9.0	7.5	6.0	10.5	9.5
2	19.0	17.0	12.5	11.5	10.5	9.5	9.0	8.0	8.5	7.5	11.0	10.0
3	18.5	17.0	12.5	12.0	10.5	9.5	8.0	7.5	9.5	8.5	10.5	10.0
4	18.5	17.0	12.0	11.5	10.0	9.0	9.0	7.5	9.5	9.0	10.0	9.0
5	18.5	17.5	12.0	11.5	10.0	9.5	9.5	9.0	9.5	9.0	9.5	8.5
6	18.5	17.5	11.5	11.5	9.5	8.5	10.0	9.5	9.0	9.0	10.0	9.0
7	17.5	16.5	12.0	11.0	9.5	8.0	9.5	8.5	9.0	8.0	10.0	8.5
8	18.0	16.5	11.0	10.0	9.5	8.5	9.0	8.5	8.5	8.0	10.0	9.0
9	18.0	17.0	10.5	10.0	10.0	9.5	9.0	8.5	8.0	8.0	10.0	9.0
10	17.5	16.5	10.5	10.0	10.0	8.5	8.5	7.0	8.5	8.0	10.5	9.5
11	17.5	16.0	10.5	9.5	8.5	6.5	9.5	7.0	9.0	8.0	10.5	9.5
12	18.0	16.5	10.0	9.0	6.5	5.5	10.5	9.5	9.0	7.5	10.0	9.0
13	18.0	16.5	10.0	9.0	6.5	5.5	11.0	10.5	8.5	7.5	10.0	9.0
14	17.5	16.5	9.5	8.5	6.0	5.5	11.0	10.5	8.5	7.5	10.0	10.0
15	18.5	16.0	10.0	9.0	6.0	5.0	10.5	9.5	10.0	8.5	10.0	9.0
16	18.5	16.5	11.0	10.0	6.0	5.0	10.5	10.0	10.0	9.0	9.0	8.0
17	18.0	16.0	11.5	10.5	8.0	6.0	10.5	10.0	10.0	10.0	9.0	8.5
18	16.0	14.5	10.5	9.5	8.5	7.5	10.0	8.5	10.0	10.0	9.0	8.5
19	14.5	13.0	9.5	8.5	9.5	8.5	8.5	7.5	10.0	9.5	9.5	9.0
20	13.0	12.0	8.5	7.0	9.5	9.0	7.5	7.5	9.5	9.0	10.0	9.5
21	13.0	11.0	8.0	6.5	9.5	8.5	8.0	7.5	9.5	9.0	10.0	9.0
22	12.5	12.0	9.5	8.0	8.5	7.5	8.0	7.5	9.5	9.0	9.5	9.0
23	13.5	12.0	9.5	9.0	7.5	7.5	8.5	8.0	10.0	8.5	10.0	9.0
24	14.0	13.0	11.0	9.5	8.5	7.5	9.0	8.5	10.5	9.5	10.0	10.0
25	13.5	13.0	11.0	9.5	9.0	8.0	9.0	9.0	10.5	10.0	10.0	10.0
26	13.0	12.0	9.5	8.5	8.5	7.0	9.0	6.5	12.0	10.5	10.5	10.0
27	13.0	12.5	8.5	7.5	7.0	6.5	7.0	6.5	12.0	11.0	10.5	10.5
28	13.0	11.5	8.5	7.5	8.5	6.5	6.5	5.5	11.0	10.0	10.5	10.0
29	12.0	11.0	9.5	8.5	9.0	8.0	5.5	3.0	10.0	9.5	10.0	10.0
30	11.5	11.0	9.5	9.0	9.0	8.5	4.5	3.0	---	---	10.0	10.0
31	12.5	11.5	---	---	9.5	9.0	6.0	4.5	---	---	10.0	10.0
MONTH	19.0	11.0	12.5	6.5	10.5	5.0	11.0	3.0	12.0	6.0	11.0	8.0

## REDWOOD CREEK BASIN

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	9.5										
2	9.5	9.5										
3	9.5	9.5										
4	9.5	9.5										
5	10.0	9.5										
6	10.0	9.0										
7	9.5	9.0										
8	9.5	9.0										
9	11.5	9.5										
10	11.5	10.0										
11	---	---										
12	---	---										
13	---	---										
14	---	---										
15	---	---										
16	---	---										
17	---	---										
18	---	---										
19	---	---										
20	---	---										
21	---	---										
22	---	---										
23	---	---										
24	---	---										
25	---	---										
26	---	---										
27	---	---										
28	---	---										
29	---	---										
30	---	---										
31	---	---										
MONTH	---	---										

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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.	SED.
						SUSP. FALL DIAM. % FINER THAN .002 MM	SUSP. FALL DIAM. % FINER THAN .004 MM	SUSP. FALL DIAM. % FINER THAN .008 MM	SUSP. FALL DIAM. % FINER THAN .016 MM	SUSP. FALL DIAM. % FINER THAN .031 MM	SUSP. FALL DIAM. % FINER THAN .062 MM
OCT											
11...	1240	16.0	12	3	.10	--	--	--	--	--	--
NOV											
27...	1315	8.0	1950	289	1520	20	28	37	46	53	--
DEC											
14...	1400	6.5	375	9	9.1	--	--	--	--	--	--
JAN											
10...	1400	7.0	1410	306	1170	--	--	--	--	--	--
13...	1040	10.5	6370	1920	33000	--	26	36	47	56	66
13...	1415	10.5	6880	2280	42400	--	--	--	--	--	--
14...	1015	10.0	7360	2120	42100	--	19	28	38	47	--
14...	1325	10.0	7780	2100	44100	--	--	--	--	--	--
14...	1630	10.0	9040	2420	59100	--	21	30	40	51	58
FEB											
07...	1610	8.5	988	68	181	--	--	--	--	--	--
28...	1630	10.0	2840	541	4150	--	--	--	--	--	--
MAR											
21...	1445	9.0	2010	283	1540	--	--	--	--	--	--
APR											
10...	1430	11.0	1090	128	377	--	--	--	--	--	--
MAY											
09...	1230	11.5	553	74	110	--	--	--	--	--	--
09...	1400	11.5	565	80	122	--	--	--	--	--	--
JUN											
11...	1310	15.0	144	3	1.2	--	--	--	--	--	--
JUL											
16...	1210	21.5	53	1	.14	--	--	--	--	--	--
AUG											
08...	1400	22.0	26	2	.14	--	--	--	--	--	--
SEP											
08...	1345	22.0	12	2	.06	--	--	--	--	--	--



[illegible]

## REDWOOD CREEK BASIN

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 mi<sup>2</sup> (8.96 km<sup>2</sup>).

## 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, except those for period of no gage-height record Feb. 21 to June 8, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--6 years, 9.63 ft<sup>3</sup>/s (0.27 m<sup>3</sup>/s), 6,980 acre-ft/yr (8.61 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 808 ft<sup>3</sup>/s (22.9 m<sup>3</sup>/s) Mar. 18, 1975, gage height, 4.32 ft (1.317 m); minimum daily, 0.10 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) Dec. 19-26, 28, 1976, Feb. 19, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft<sup>3</sup>/s (2.8 m<sup>3</sup>/s) and maximum(\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 13	2400	161 4.56	3.14 0.957
Mar. 14	unknown	*230 6.51	unknown

Minimum daily discharge, 0.20 ft<sup>3</sup>/s (0.006 m<sup>3</sup>/s) Oct. 5-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	5.6	9.7	20	5.2	37	9.8	8.3	2.3	1.6	.79	.48
2	.22	5.0	15	19	10	32	9.4	7.7	2.2	1.5	.76	.48
3	.22	7.2	14	15	28	24	9.2	7.2	2.2	1.5	.79	.48
4	.22	20	12	14	21	27	9.8	6.8	2.0	1.5	.75	.48
5	.20	30	10	19	15	24	13	6.4	2.0	1.4	.73	.48
6	.20	32	9.7	19	18	20	24	6.0	1.9	1.4	.73	.48
7	.20	32	8.7	17	15	17	20	5.6	1.9	1.3	.67	.48
8	.21	21	7.6	14	13	15	15	5.2	1.8	1.4	.67	.48
9	.24	14	7.0	14	12	13	25	10	1.8	1.3	.67	.48
10	.27	9.7	6.5	19	11	12	22	9.2	1.7	1.3	.67	.48
11	.23	7.6	5.9	19	10	11	18	7.2	1.7	1.2	.67	.44
12	.21	6.2	5.3	36	10	11	16	6.6	1.8	1.2	.62	.44
13	.25	5.3	5.0	70	12	30	15	6.1	1.8	1.2	.62	.44
14	1.1	4.7	4.5	136	13	205	14	5.7	1.8	1.1	.62	.44
15	.98	4.2	4.5	92	12	85	13	5.3	1.7	1.1	.62	.44
16	.50	8.4	4.0	52	13	44	12	5.1	1.8	1.1	.62	.44
17	.36	18	3.7	60	16	38	11	4.7	1.8	1.1	.62	.44
18	.79	24	4.2	39	22	34	10	4.4	1.7	1.0	.62	.44
19	2.7	28	6.2	29	35	28	9.6	4.1	1.7	.97	.62	.44
20	7.6	21	7.2	22	57	26	18	3.9	1.8	.91	.62	.48
21	2.9	15	20	17	40	31	24	3.7	1.7	.94	.57	.48
22	2.9	28	19	14	25	27	22	3.5	1.7	.91	.57	.48
23	2.2	33	23	12	20	23	19	4.1	1.7	.86	.57	.44
24	19	65	35	10	18	20	17	3.7	1.7	.85	.57	.44
25	46	49	30	9.3	17	18	14	3.4	2.4	.82	.52	.44
26	11	41	23	8.4	18	16	13	3.2	1.9	.85	.52	.40
27	9.3	28	18	7.2	21	15	11	3.0	1.7	.82	.52	.40
28	8.4	20	14	6.2	57	14	10	2.8	1.7	.79	.52	.40
29	6.5	15	13	5.9	44	12	9.4	2.7	1.7	.79	.52	.40
30	5.3	11	19	5.6	---	11	8.8	2.6	1.7	.84	.52	.44
31	6.2	---	22	5.4	---	10	---	2.4	---	.79	.52	---
TOTAL	136.63	608.9	386.7	826.0	608.2	930	442.0	160.6	55.3	34.34	19.40	13.60
MEAN	4.41	20.3	12.5	26.6	21.0	30.0	14.7	5.18	1.84	1.11	.63	.45
MAX	46	65	35	136	57	205	25	10	2.4	1.6	.79	.48
MIN	.20	4.2	3.7	5.4	5.2	10	8.8	2.4	1.7	.79	.52	.40
AC-FT	271	1210	767	1640	1210	1840	877	319	110	68	38	27

CAL YR 1979	TOTAL	3602.99	MEAN	9.87	MAX	120	MIN	.20	AC-FT	7150
WTR YR 1980	TOTAL	4221.67	MEAN	11.5	MAX	205	MIN	.20	AC-FT	8370

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 1979 TO SEPTEMBER 1980

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
OCT						
03...	1145	14.0	.22	1	.00	--
NOV						
08...	1050	11.5	21	4	.23	--
DEC						
11...	1245	7.5	5.9	8	.13	45
JAN						
03...	1530	9.0	16	3	.13	65
16...	1215	10.5	50	61	8.2	33
FEB						
11...	1405	9.0	10	4	.11	--
20...	1230	9.5	60	21	3.4	74
MAR						
12...	1430	8.5	11	3	.09	--
APR						
07...	1225	8.5	20	5	.27	81
MAY						
06...	1145	10.0	6.0	5	.08	42
JUN						
04...	1420	12.0	2.0	3	.02	--
JUL						
01...	1420	15.5	1.6	2	.01	--
AUG						
05...	1210	13.5	.73	3	.01	56
SEP						
05...	1030	12.0	.47	1	.00	--

## REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CA

LOCATION.--Lat 41°17'18", long 124°03'27", in NE¼NE¼ 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 mi<sup>2</sup> (720 km<sup>2</sup>).

## 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.--29 years, 1,056 ft<sup>3</sup>/s (29.91 m<sup>3</sup>/s), 765,100 acre-ft/yr (943 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,500 ft<sup>3</sup>/s (1,430 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 24.0 ft (7.32 m), from outside high-water marks; minimum daily, 9.3 ft<sup>3</sup>/s (0.26 m<sup>3</sup>/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 ft<sup>3</sup>/s (1,420 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 9,000 ft<sup>3</sup>/s (255 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	(m <sup>3</sup> /s)	Gage height (ft)	(m)	Date	Time	Discharge (ft <sup>3</sup> /s)	(m <sup>3</sup> /s)	Gage height (ft)	(m)
Nov. 24	1300	12600	357	14.52	4.426	Mar. 14	1330	*19400	549	16.66	5.078
Jan. 12	2245	14300	405	15.09	4.599						

Minimum daily discharge, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) Oct. 8-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	547	1180	2410	701	2500	1030	611	265	112	44	20
2	14	480	1680	1980	714	2130	947	572	255	109	43	19
3	14	855	1750	1680	2540	2030	877	540	250	105	42	19
4	13	1720	1320	1470	1800	2060	929	512	240	104	42	19
5	13	2240	1170	1820	1380	2210	1430	490	240	102	41	19
6	13	2180	1040	1600	1540	2490	1860	466	233	98	38	17
7	13	2830	940	1400	1280	2080	1640	443	223	100	37	17
8	12	1750	844	1280	1130	1810	1360	423	215	102	37	16
9	12	1220	764	1350	1000	1610	1790	645	205	102	36	16
10	12	949	711	2290	910	1460	1680	854	201	97	35	15
11	12	767	649	1970	848	1450	1420	704	198	95	34	15
12	12	652	605	7740	796	1400	1260	610	192	95	34	14
13	12	574	560	10700	757	3720	1140	560	193	92	33	15
14	33	504	534	12000	709	13500	1080	520	195	90	31	16
15	120	449	507	7840	678	7460	1030	490	187	88	29	15
16	90	1050	479	5770	645	4460	949	460	181	86	28	15
17	65	1640	457	5330	837	3650	872	435	178	81	27	14
18	47	1780	452	3910	2200	3560	803	415	168	78	26	15
19	585	1740	779	3050	4250	2950	739	390	160	75	24	16
20	1290	1390	1270	2470	4500	2880	1130	375	156	74	25	19
21	1190	1130	2210	2060	3160	3350	1510	355	149	71	24	20
22	718	1820	2010	1770	2660	2880	1250	350	146	67	24	20
23	691	3270	2090	1530	2330	2510	1090	360	146	67	23	19
24	929	8420	3780	1350	2020	2190	1010	385	144	66	22	17
25	5390	5100	2980	1220	1960	2070	936	360	156	63	22	17
26	1940	3870	2360	1100	2050	1840	870	340	150	60	22	16
27	1130	2720	1900	988	2350	1630	809	320	138	58	22	16
28	855	2090	1570	897	3710	1470	747	305	129	54	22	16
29	653	1670	1360	821	3070	1330	695	295	122	51	22	17
30	551	1380	1990	758	---	1200	652	285	119	48	21	17
31	652	---	2490	719	---	1090	---	275	---	46	20	---
TOTAL	17096	56787	42431	91273	52525	86970	33535	14145	5534	2536	930	506
MEAN	551	1893	1369	2944	1811	2805	1118	456	184	81.8	30.0	16.9
MAX	5390	8420	3780	12000	4500	13500	1860	854	265	112	44	20
MIN	12	449	452	719	645	1090	652	275	119	46	20	14
AC-FT	33910	112600	84160	181000	104200	172500	66520	28060	10980	5030	1840	1000

CAL YR 1979	TOTAL	335899	MEAN	920	MAX	9250	MIN	12	AC-FT	666300
WTR YR 1980	TOTAL	404268	MEAN	1105	MAX	13500	MIN	12	AC-FT	801900

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.

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, 1978-80.  
 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, Oct. 9, 10, 1979.

EXTREMES FOR CURRENT YEAR.--  
 WATER TEMPERATURES: Maximum observed, 21.0°C Aug. 5, Sept. 8; minimum observed, 4.5°C Jan. 30.  
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,870 mg/L Mar. 14; minimum daily mean, 1 mg/L Oct. 9, 10.  
 SEDIMENT DISCHARGE: Maximum daily, 113,000 tons (103,000 metric tons) Mar. 14; minimum daily, 0.03 ton (0.03 metric ton) Oct. 9, 10.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CAC03)
OCT 01...	1335	14	--	7.4	20.0	1.0	10.3	--
NOV 05...	1415	2300	98	7.3	13.0	50	10.7	38
DEC 04...	1410	1510	--	7.3	10.0	18	11.1	--
JAN 09...	1025	1400	--	7.4	9.5	15	11.0	--
FEB 04...	1440	1720	--	7.2	10.5	45	11.1	--
MAY 05...	1310	497	103	7.5	14.0	4.0	10.4	43
JUN 03...	1430	--	--	7.5	18.0	5.0	10.1	--
JUL 08...	1510	--	--	7.4	17.0	1.0	9.7	--
AUG 19...	1330	--	--	7.5	19.5	1.0	10.1	--
SEP 16...	0815	15	136	7.1	14.0	1.0	9.5	50

DATE	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)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	BORON, DIS- SOLVED (UG/L AS B)
OCT 01...	--	--	--	--	--	--	--	--
NOV 05...	12	2.0	4.0	--	.3	--	3.0	100
DEC 04...	--	--	--	--	--	--	--	--
JAN 09...	--	--	--	--	--	--	--	--
FEB 04...	--	--	--	--	--	--	--	--
MAY 05...	14	2.0	4.0	17	.3	.4	4.0	0
JUN 03...	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--
AUG 19...	--	--	--	--	--	--	--	--
SEP 16...	17	2.0	6.0	20	.4	.7	6.0	0

## REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	13.5	9.0	10.0	8.5	10.5	10.0	14.0	17.0	---	---	---
2	---	13.5	12.0	9.5	9.0	11.0	9.0	14.0	16.5	17.0	17.0	15.5
3	17.0	13.0	10.0	10.0	10.0	10.5	8.0	13.0	---	---	---	---
4	16.0	12.0	9.5	9.0	10.0	---	9.5	---	16.5	---	17.0	20.5
5	---	12.5	9.5	10.0	9.5	9.0	10.0	13.5	---	---	21.0	---
6	---	12.0	10.5	10.5	10.5	9.0	9.0	15.5	16.5	---	15.5	15.5
7	---	11.5	9.0	9.0	9.5	8.5	10.0	15.0	---	16.5	---	---
8	17.0	11.0	10.0	9.5	9.5	12.0	10.5	14.0	---	---	16.0	21.0
9	---	---	---	9.0	9.5	12.0	12.0	12.0	16.5	16.5	---	---
10	16.0	10.5	10.5	7.0	10.0	10.0	12.0	10.5	---	---	---	---
11	---	12.0	9.0	9.0	10.0	10.0	14.0	---	15.0	20.0	---	15.0
12	15.0	12.0	8.0	12.0	9.0	9.0	14.0	12.0	---	---	15.0	---
13	---	9.5	8.0	12.5	10.0	10.0	15.0	12.0	---	---	---	16.5
14	16.0	12.0	8.0	11.0	10.0	9.5	11.0	14.5	14.0	20.5	18.5	---
15	15.5	10.0	7.0	10.0	10.5	9.0	14.0	16.0	---	---	---	---
16	---	11.5	7.5	10.0	12.0	10.0	13.0	16.5	16.0	19.5	---	---
17	16.5	12.0	8.0	10.0	11.5	9.0	14.5	16.0	16.0	---	---	---
18	14.0	10.5	9.5	8.5	10.5	---	14.0	---	18.0	17.0	19.5	17.5
19	14.5	10.0	10.0	8.5	10.5	10.5	15.5	15.5	---	---	---	---
20	13.5	8.0	10.5	8.0	10.5	9.5	11.5	19.0	---	---	---	20.0
21	11.5	8.5	9.0	8.5	10.0	8.5	9.5	15.0	---	18.0	19.0	---
22	13.0	10.0	9.0	10.0	9.5	11.5	12.5	15.5	---	---	---	20.0
23	15.0	9.0	8.0	10.0	10.0	11.0	13.5	13.5	16.5	---	17.0	---
24	14.5	11.0	9.0	9.0	12.0	11.5	13.0	15.0	---	17.0	---	20.0
25	14.5	10.0	---	10.0	11.0	10.5	12.5	---	17.0	---	15.0	---
26	12.0	9.0	8.0	8.0	11.5	10.0	15.0	12.0	---	---	---	15.0
27	12.5	9.0	7.5	---	11.5	11.5	14.5	15.0	16.5	---	18.0	---
28	14.0	10.0	8.0	6.5	11.0	12.0	13.5	13.5	---	19.5	---	---
29	11.5	11.0	9.5	6.0	10.5	10.0	14.0	17.0	---	---	---	18.0
30	13.5	11.5	10.5	4.5	---	11.5	15.5	17.5	19.0	---	15.0	---
31	14.0	---	11.0	6.0	---	10.0	---	18.5	---	15.0	---	---
MONTH	---	11.0	9.0	9.0	10.5	10.0	12.5	14.5	---	---	---	---

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	2	.08	547	8	12	1180	80	255
2	14	2	.08	480	8	10	1680	234	1290
3	14	2	.08	855	135	390	1750	120	567
4	13	2	.07	1720	271	1350	1320	58	207
5	13	2	.07	2240	185	1120	1170	40	126
6	13	2	.07	2180	248	1750	1040	32	90
7	13	2	.07	2830	389	3190	940	30	76
8	12	2	.06	1750	90	425	844	26	59
9	12	1	.03	1220	42	138	764	23	47
10	12	1	.03	949	32	82	711	20	38
11	12	2	.06	767	20	41	649	17	30
12	12	2	.06	652	11	19	605	16	26
13	12	2	.06	574	13	20	560	14	21
14	33	16	1.4	504	11	15	534	11	16
15	120	22	7.1	449	7	8.5	507	10	14
16	90	10	2.4	1050	145	518	479	9	12
17	65	3	.53	1640	147	654	457	8	9.9
18	47	2	.25	1780	122	586	452	8	9.8
19	585	251	454	1740	80	376	779	61	148
20	1290	436	1930	1390	50	188	1270	110	377
21	1190	200	643	1130	35	107	2210	348	2170
22	718	101	225	1820	380	3240	2010	122	662
23	691	50	.93	3270	600	5300	2090	345	2690
24	929	284	1830	8420	2630	68700	3780	640	6530
25	5390	1730	28100	5100	1050	15200	2980	240	1930
26	1940	250	1310	3870	510	5330	2360	150	956
27	1130	63	192	2720	230	1690	1900	100	513
28	855	40	92	2090	170	959	1570	69	292
29	653	25	44	1670	120	541	1360	50	184
30	551	15	22	1380	85	317	1990	205	1190
31	652	21	37	---	---	---	2490	266	1820
TOTAL	17096	---	34984.50	56787	---	112276.5	42431	---	22355.7

## REDWOOD CREEK BASIN

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11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	2410	180	1170	701	24	45	2500	170	1150
2	1980	100	535	714	22	42	2130	115	661
3	1680	71	322	2540	727	5440	2030	125	685
4	1470	53	210	1800	165	802	2060	145	806
5	1820	130	639	1380	80	298	2210	222	1400
6	1600	90	389	1540	120	499	2490	280	1880
7	1400	54	204	1280	65	225	2080	110	618
8	1280	50	173	1130	45	137	1810	90	440
9	1350	95	346	1000	36	97	1610	66	287
10	2290	431	2730	910	30	74	1460	62	244
11	1970	120	638	848	26	60	1450	59	231
12	7740	2340	59600	796	23	49	1400	62	234
13	10700	2810	85800	757	22	45	3720	1130	16200
14	12000	2300	75800	709	19	36	13500	2870	113000
15	7840	1330	28200	678	16	29	7460	1080	21800
16	5770	900	14000	645	16	28	4460	470	5660
17	5330	640	9210	837	63	158	3650	340	3350
18	3910	400	4220	2200	733	5600	3560	285	2740
19	3050	300	2470	4250	1200	14400	2950	210	1670
20	2470	220	1470	4500	800	9720	2880	195	1520
21	2060	160	890	3160	380	3240	3350	275	2490
22	1770	120	573	2660	240	1720	2880	160	1240
23	1530	95	392	2330	180	1130	2510	130	881
24	1350	78	284	2020	140	764	2190	95	562
25	1220	65	214	1960	135	714	2070	85	475
26	1100	56	166	2050	145	803	1840	75	373
27	988	45	120	2350	300	2270	1630	60	264
28	897	32	78	3710	600	6060	1470	50	198
29	821	30	67	3070	290	2400	1330	43	154
30	758	24	49	---	---	---	1200	35	113
31	719	22	43	---	---	---	1090	29	85
TOTAL	91273	---	291002	52525	---	56885	86970	---	181411
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	1030	25	70	611	6	9.9	265	3	2.1
2	947	25	64	572	7	11	255	3	2.1
3	877	19	45	540	5	7.3	250	3	2.0
4	929	28	70	512	5	6.9	240	3	1.9
5	1430	132	541	490	4	5.3	240	3	1.9
6	1860	171	880	466	5	6.3	233	3	1.9
7	1640	85	376	443	5	6.0	223	3	1.8
8	1360	50	184	423	7	8.0	215	4	2.3
9	1790	139	726	645	49	112	205	4	2.2
10	1680	85	386	854	52	120	201	4	2.2
11	1420	53	203	704	20	38	198	4	2.1
12	1260	36	122	610	10	16	192	4	2.1
13	1140	28	86	560	7	11	193	4	2.1
14	1080	26	76	520	5	7.0	195	4	2.1
15	1030	24	67	490	6	7.9	187	4	2.0
16	949	20	51	460	5	6.2	181	4	2.0
17	872	20	47	435	10	12	178	3	1.4
18	803	18	39	415	7	7.8	168	3	1.4
19	739	14	28	390	5	5.3	160	3	1.3
20	1130	87	332	375	4	4.1	156	3	1.3
21	1510	85	347	355	3	2.9	149	3	1.2
22	1250	36	121	350	4	3.8	146	4	1.6
23	1090	22	65	360	6	5.8	146	10	3.9
24	1010	20	55	385	6	6.2	144	6	2.3
25	936	18	45	360	5	4.9	156	4	1.7
26	870	12	28	340	4	3.7	150	4	1.6
27	809	12	26	320	4	3.5	138	3	1.1
28	747	10	20	305	3	2.5	129	3	1.0
29	695	9	17	295	4	3.2	122	4	1.3
30	652	9	16	285	4	3.1	119	6	1.9
31	---	---	---	275	4	3.0	---	---	---
TOTAL	33535	---	5133	14145	---	450.6	5534	---	55.8

## REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	112	3	.91	44	2	.24	20	2	.11
2	109	2	.59	43	3	.35	19	3	.15
3	105	2	.57	42	3	.34	19	3	.15
4	104	2	.56	42	3	.34	19	4	.21
5	102	2	.55	41	4	.44	19	3	.15
6	98	2	.53	38	3	.31	17	3	.14
7	100	2	.54	37	3	.30	17	3	.14
8	102	3	.83	37	4	.40	16	2	.09
9	102	5	1.4	36	3	.29	16	2	.09
10	97	4	1.0	35	4	.38	15	2	.08
11	95	3	.77	34	3	.28	15	2	.08
12	95	3	.77	34	4	.37	14	2	.08
13	92	3	.75	33	4	.36	15	2	.08
14	90	2	.49	31	3	.25	16	2	.09
15	88	2	.48	29	3	.23	15	2	.08
16	86	2	.46	28	4	.30	15	2	.08
17	81	2	.44	27	4	.29	14	2	.08
18	78	3	.63	26	3	.21	15	2	.08
19	75	3	.61	24	3	.19	16	2	.09
20	74	3	.60	25	4	.27	19	2	.10
21	71	3	.58	24	3	.19	20	2	.11
22	67	4	.72	24	4	.26	20	2	.11
23	67	5	.90	23	4	.25	19	2	.10
24	66	7	1.2	22	3	.18	17	3	.14
25	63	5	.85	22	2	.12	17	3	.14
26	60	4	.65	22	2	.12	16	2	.09
27	58	3	.47	22	2	.12	16	2	.09
28	54	3	.44	22	2	.12	16	2	.09
29	51	3	.41	22	2	.12	17	2	.09
30	48	2	.26	21	2	.11	17	2	.09
31	46	2	.25	20	2	.11	---	---	---
TOTAL	2536	---	20.21	930	---	7.84	506	---	3.20
YEAR 404268.0			704585.35						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAV DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1979	17096.00	34984.50	7350	42300
NOVEMBER ...	56787.00	112276.50	28300	141000
DECEMBER ...	42431.00	22355.70	20400	42800
JANUARY 1980	91273.00	291002.00	45200	336000
FEBRUARY ...	52525.00	56885.00	26600	83500
MARCH .....	86970.00	181411.00	45100	226000
APRIL .....	33535.00	5133.00	15300	20400
MAY .....	14145.00	450.60	2520	2970
JUNE .....	5534.00	55.80	8	64
JULY .....	2536.00	20.21	0	20
AUGUST .....	930.00	7.84	0	8
SEPTEMBER ..	506.00	3.20	0	3
TOTAL .....	404268.00	704585.35	190778	895065



PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

## KLAMATH RIVER BASIN

## 11510700 KLAMATH RIVER BELOW JOHN C. BOYLE POWERPLANT, NEAR KENO, OR

LOCATION.--Lat 42°05'05", long 122°04'20", in SE $\frac{1}{4}$ SE $\frac{1}{4}$  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 mi<sup>2</sup> (10,570 km<sup>2</sup>), 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.--21 years, 1,833 ft<sup>3</sup>/s (51.91 m<sup>3</sup>/s); 1,328,000 acre-ft/yr (1.64 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft<sup>3</sup>/s (312 m<sup>3</sup>/s) Mar. 5, 1972, gage height, 9.33 ft (2.844 m); minimum, 283 ft<sup>3</sup>/s (8.01 m<sup>3</sup>/s) Feb. 17, 1968; minimum daily, 317 ft<sup>3</sup>/s (8.98 m<sup>3</sup>/s) July 25, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,880 ft<sup>3</sup>/s (138 m<sup>3</sup>/s) Jan. 16, gage height, 7.00 ft (2.134 m); minimum, 333 ft<sup>3</sup>/s (9.43 m<sup>3</sup>/s) Nov. 15, June 23, July 7-11, 21; minimum daily, 333 ft<sup>3</sup>/s (9.43 m<sup>3</sup>/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	1160	1050	1150	2780	3930	1220	2080	645	718	997	1160
2	1220	1150	1000	1000	2780	3970	1090	1870	678	678	885	1120
3	1210	1210	906	962	2780	3850	1090	1810	630	605	934	1160
4	1200	1200	1200	1010	2780	3580	1060	1810	630	522	927	1160
5	1230	1210	1190	1000	2780	3350	1020	1810	625	565	892	1160
6	1210	1200	1220	1020	2770	2780	1000	1840	630	610	885	1210
7	1230	1210	1280	1000	2770	2780	1010	1160	625	495	934	1200
8	1200	1190	1390	1200	2770	2770	962	1120	630	336	976	1210
9	1220	1210	1200	1460	2770	2770	969	1030	625	333	934	1200
10	1200	1140	1150	1510	2770	2770	955	1030	630	336	1110	1220
11	1220	1190	1060	1490	2740	2770	1160	1020	625	371	1120	1160
12	1220	1190	927	1480	2160	2770	1130	1150	630	504	518	1160
13	1200	1270	962	1590	1340	2770	1160	1190	625	473	1100	1200
14	1230	1500	969	2990	1190	2770	1420	1750	630	455	1030	1210
15	1200	778	955	3630	1470	2770	1410	1960	625	468	1020	1200
16	1220	1150	948	4170	1470	2770	1440	1870	630	443	976	1210
17	1200	1140	1200	4440	1470	2890	1440	1240	625	477	969	1200
18	1230	1160	1110	4140	1430	3140	1970	1480	724	500	983	1200
19	1200	1140	1110	4280	2050	3020	2210	1480	718	531	1240	1480
20	1230	1210	1160	4120	3050	2770	1080	1480	678	522	1230	1200
21	1200	1200	1140	3870	4170	2770	1100	1300	718	570	1000	1160
22	1220	1160	1160	3810	4500	2770	2210	839	724	796	839	1150
23	1200	1140	1200	3400	4460	2770	1990	927	672	802	839	784
24	1230	1170	1150	3260	4480	2770	1480	730	678	802	839	1100
25	1020	1060	1130	2800	4460	2220	1480	760	672	766	839	1160
26	1030	1200	1150	2780	4320	1900	1130	1160	678	760	1020	1150
27	1010	1130	1180	2780	4370	1790	1020	678	814	760	1020	1160
28	1070	1130	1120	2780	4230	1410	1030	672	820	760	1110	1150
29	1000	1060	1060	2780	3970	1410	1520	678	814	443	1110	1160
30	1120	1090	1060	2780	---	1410	1920	872	724	683	1160	1180
31	1160	---	1140	2780	---	1420	---	724	---	1120	1160	---
TOTAL	36540	34948	34477	77462	85080	83630	39676	39520	20172	18204	30596	35174
MEAN	1179	1165	1112	2499	2934	2698	1323	1275	672	587	987	1172
MAX	1230	1500	1390	4440	4500	3970	2210	2080	820	1120	1240	1480
MIN	1000	778	906	962	1190	1410	955	672	625	333	518	784
AC-FT	72480	69320	68390	153600	168800	165900	78700	78390	40010	36110	60690	69770
CAL YR 1979	TOTAL	441122	MEAN	1209	MAX	2810	MIN	344	AC-FT	875000		
WTR YR 1980	TOTAL	535479	MEAN	1463	MAX	4500	MIN	333	AC-FT	1062000		

## RESERVOIRS IN KLAMATH RIVER BASIN, CA

11511400 COPCO LAKE NEAR COPCO.--Lat 41°58'46", long 122°20'00", in SE¼SW¼ sec.29, T.48 N., R.4 W., Siskiyou County, Hydrologic Unit 18010206, 12.7 mi (20.4 km) northeast of Hornbrook. DRAINAGE AREA, 4,300 mi<sup>2</sup> (11,137 km<sup>2</sup>). 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 hm<sup>3</sup>). 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 hm<sup>3</sup>) June 24, 1969, elevation, 2,607.45 ft (794.751 m); minimum, 30,360 acre-ft (37.4 hm<sup>3</sup>) Aug. 19, 1971, elevation, 2,589.24 ft (789.200 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 45,920 acre-ft (56.6 hm<sup>3</sup>) Apr. 12, elevation, 2,606.54 ft (794.473 m); minimum 40,115 acre-ft (49.5 hm<sup>3</sup>) Oct. 14, elevation, 2,600.44 ft (792.614 m).

11516510 IRON GATE RESERVOIR NEAR HORN BROOK.--Lat 41°55'58", long 122°26'06", in SW¼SW¼ sec.9, T.47 N., R.5 W., Siskiyou County, Hydrologic Unit 18010206, 6.6 mi (10.6 km) northeast of Hornbrook. DRAINAGE AREA, 4,573 mi<sup>2</sup> (11,844 km<sup>2</sup>). 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 hm<sup>3</sup>) 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 hm<sup>3</sup>) Mar. 3, 1972, elevation, 2,330.96 ft (710.477 m); minimum, 50,103 acre-ft (61.8 hm<sup>3</sup>) Dec. 9, 1968, elevation, 2,318.40 ft (706.648 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 60,289 acre-ft (74.3 hm<sup>3</sup>) Jan. 14, elevation, 2,329.50 ft (710.032 m); minimum, 55,687 acre-ft (68.7 hm<sup>3</sup>) July 30, elevation, 2,324.74 ft (708.581 m).

## MONTHEND ELEVATION NGVD AND CONTENTS AT 0800, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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.....	2600.68	40336	--	2325.48	56379	--
Oct. 31.....	2600.66	40317	-19	2326.07	56934	+555
Nov. 30.....	2605.27	44681	+4364	2326.64	57478	+544
Dec. 31.....	2603.10	42602	-2079	2326.46	57306	-172
CAL YR 1979.....	--	--	-1346	--	--	+248
Jan. 31.....	2603.54	43020	+418	2328.61	59398	+2092
Feb. 29.....	2601.54	41136	-1884	2329.05	59834	+436
Mar. 31.....	2605.89	45283	+4147	2326.70	57536	-2298
Apr. 30.....	2604.50	43938	-1345	2328.07	58863	+1327
May 31.....	2602.80	42319	-1619	2325.90	56773	-2090
June 30.....	2604.63	44064	+1745	2328.13	58923	+2150
July 31.....	2603.31	42802	-1262	2325.05	55975	-2948
Aug. 31.....	2603.85	43316	+514	2326.99	57812	+1837
Sept. 30.....	2603.70	43173	-143	2325.69	56576	-1236
WTR YR 1980.....	--	--	+2837	--	--	+197

## KLAMATH RIVER BASIN

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA

LOCATION.--Lat 41°55'41", long 122°26'35", in SE¼NE¼ 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 mi<sup>2</sup> (11,990 km<sup>2</sup>), 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 hm<sup>3</sup>), Iron Gate Reservoir (station 11516510), other smaller reservoirs, and diversions above station.

AVERAGE DISCHARGE.--20 years, 2,194 ft<sup>3</sup>/s (62.13 m<sup>3</sup>/s), 1,590,000 acre-ft/yr (1.96 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft<sup>3</sup>/s (833 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 13.63 ft (4.154 m), from rating curve extended above 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 647 ft<sup>3</sup>/s (18.3 m<sup>3</sup>/s) Oct. 30, Nov. 6, 1960, Sept. 24, Oct. 1, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,580 ft<sup>3</sup>/s (243 m<sup>3</sup>/s) Jan. 13, gage height, 8.12 ft (2.475 m); minimum daily, 725 ft<sup>3</sup>/s (20.5 m<sup>3</sup>/s) July 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	1330	1310	1440	3260	4750	1810	2380	760	731	1050	1340
2	1290	1330	1580	1500	3280	4720	1810	2380	749	755	1050	1340
3	1310	1320	1820	1340	3600	4560	1680	2370	745	733	1050	1350
4	1290	1310	1800	1340	3420	4230	1520	2350	737	729	1050	1360
5	1290	1310	1800	1350	3330	3900	1520	2360	744	741	1050	1350
6	1290	1320	1790	1350	3150	3350	1520	2200	741	743	1050	1350
7	1290	1320	1650	1460	3150	3220	1500	1740	737	743	1050	1340
8	1290	1320	1530	1810	3240	3210	1500	1520	734	738	1050	1350
9	1300	1330	1530	1810	3240	3190	1500	1530	732	755	1050	1350
10	1310	1340	1440	1820	3230	3180	1500	1530	732	736	1050	1360
11	1310	1340	1350	1810	3130	3170	1650	1520	732	784	1050	1360
12	1310	1330	1350	3030	2380	3170	1800	1520	747	748	1050	1360
13	1310	1330	1340	6200	1810	3180	1800	1610	740	726	1050	1360
14	1310	1330	1340	7120	1810	3400	1800	1780	738	725	1050	1360
15	1320	1330	1340	5260	1810	3280	1800	1960	738	727	1050	1350
16	1310	1360	1340	5970	1810	3170	1810	2220	737	745	1050	1340
17	1310	1380	1340	6530	1820	3470	1810	1820	735	745	1050	1340
18	1310	1350	1340	5620	1920	4130	1800	1820	749	747	1050	1350
19	1320	1340	1340	5260	2200	3650	1810	1820	744	748	1050	1340
20	1320	1330	1340	5000	5560	3370	1830	1810	745	747	1050	1340
21	1320	1330	1340	4650	5710	3360	1830	1690	738	747	1050	1340
22	1310	1340	1340	4400	5790	3340	1990	1200	820	749	1050	1340
23	1310	1340	1340	4020	5430	3330	2220	1030	931	749	1050	1350
24	1310	1450	1350	3230	5370	3230	1820	1040	743	750	1050	1340
25	1340	1360	1350	3000	5300	2900	1660	1040	733	750	1050	1340
26	1320	1350	1350	3120	5070	2220	1410	1040	733	749	1050	1340
27	1310	1330	1350	3120	5100	2070	1410	1030	736	750	1050	1350
28	1310	1330	1340	3100	5150	1810	1620	1030	739	766	1050	1350
29	1310	1310	1340	3080	4850	1810	1810	1030	731	746	1050	1340
30	1320	1310	1350	3230	---	1810	2150	1020	733	748	1050	1340
31	1310	---	1360	3270	---	1810	---	1020	---	770	1070	---
TOTAL	40560	40100	44480	105240	104920	99990	51690	50410	22453	23120	32570	40440
MEAN	1308	1337	1435	3395	3618	3225	1723	1626	748	746	1051	1348
MAX	1340	1450	1820	7120	5790	4750	2220	2380	931	784	1070	1360
MIN	1290	1310	1310	1340	1810	1810	1410	1020	731	725	1050	1340
AC-FT	80450	79540	88230	208700	208100	198300	102500	99990	44540	45860	64600	80210
CAL YR 1979 TOTAL	520483			1426	MAX 3300	MIN 696	AC-FT 1032000					
WTR YR 1980 TOTAL	655973			1792	MAX 7120	MIN 725	AC-FT 1301000					

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 June 1980 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1962 to June 1980 (discontinued).

INSTRUMENTATION.--Temperature recorder from October 1962 to June 1980.

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 PERIOD.--

WATER TEMPERATURES: Maximum recorded, 20.5°C June 28, 29; minimum recorded, 3.0°C Jan. 29, 30, Feb. 4.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	HARD- NESS (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT											
11...	0830	1310	--	7.8	17.0	7.1	--	--	--	--	--
NOV											
13...	1215	1330	174	7.3	--	8.5	13	2.0	52	11	6.0
DEC											
06...	1230	1790	--	7.4	--	9.2	--	--	--	--	--
JAN											
07...	1125	1350	--	7.5	5.0	11.2	--	--	--	--	--
FEB											
14...	0905	1810	--	7.6	4.0	11.6	--	--	--	--	--
APR											
17...	1100	1810	268	8.2	--	12.5	20	2.0	82	18	9.0
MAY											
06...	1045	2360	--	8.2	15.5	10.7	--	--	--	--	--
JUN											
11...	0830	732	183	8.5	17.0	10.5	16	2.0	60	11	8.0
JUL											
16...	1050	747	--	8.4	21.5	10.6	--	--	--	--	--
AUG											
14...	0740	1070	--	8.3	21.0	7.5	23	--	--	--	--
SEP											
03...	0750	1350	175	8.1	19.0	7.5	20	1.7	52	11	6.0

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS CAC03)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P04)
OCT										
11...	--	--	--	--	--	--	--	--	--	--
NOV										
13...	15	--	68	3.0	4	1.1	.08	1.0	.23	.55
DEC										
06...	--	--	--	--	--	--	--	--	--	--
JAN										
07...	--	--	--	--	--	--	--	--	--	--
FEB										
14...	--	--	--	--	--	.60	.36	1.7	.12	.21
APR										
17...	24	3.2	94	4.0	6	.40	.00	.70	.12	.25
MAY										
06...	--	--	--	--	--	--	--	--	--	--
JUN										
11...	18	2.5	77	7.0	5	.10	.02	.50	.11	.25
JUL										
16...	--	--	--	--	--	.10	.03	.90	.15	.31
AUG										
14...	--	--	--	--	3	.20	--	.90	.21	--
SEP										
03...	15	2.6	66	4.0	3	.40	--	.90	.22	--

## KLAMATH RIVER BASIN

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS-BA)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)
NOV 13...	1215	10	0	100	0	0	0
APR 17...	1100	0	0	100	0	0	0
JUN 11...	0830	0	0	200	0	0	10
SEP 03...	0750	0	0	100	0	0	0

DATE	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)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
NOV 13...	40	0	20	.0	0	7.6	.00
APR 17...	20	0	10	.0	40	4.8	.00
JUN 11...	40	0	10	.0	20	5.3	.00
SEP 03...	30	10	10	.0	10	8.7	.00

## 11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA--Continued

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1979 TO JUNE 1980

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	17.0	13.0	12.5	7.0	7.0	4.5	4.5	3.5	3.5	6.5	6.5
2	17.5	17.0	12.5	12.5	7.0	6.5	4.5	4.5	3.5	3.5	7.0	6.5
3	17.5	17.0	12.5	12.5	7.0	6.5	4.5	4.5	4.5	3.5	7.0	6.5
4	18.0	17.0	12.5	12.0	7.0	6.5	4.5	4.5	4.0	3.0	7.0	6.5
5	17.5	17.0	12.0	12.0	7.0	6.5	5.0	4.5	3.5	3.5	7.0	6.5
6	17.5	17.0	12.0	11.5	6.5	6.5	4.5	4.5	4.0	3.5	7.5	6.5
7	17.5	17.0	12.0	11.5	6.5	6.5	4.5	4.5	4.0	3.5	7.5	6.5
8	17.5	17.0	11.5	11.5	6.5	6.0	4.5	4.5	4.0	3.5	7.5	7.0
9	17.5	17.0	11.5	11.0	6.5	6.0	4.5	4.5	4.0	3.5	7.5	7.0
10	17.0	16.5	11.0	11.0	6.5	6.0	4.5	4.0	4.0	3.5	8.0	7.0
11	17.0	16.5	11.0	10.5	6.0	5.5	4.5	4.0	4.0	3.5	7.5	7.0
12	17.0	16.0	10.5	10.5	5.5	5.5	5.5	4.5	4.5	3.5	7.5	7.0
13	17.0	16.5	10.5	10.0	5.5	5.5	6.0	5.0	4.5	3.5	7.0	7.0
14	16.5	16.0	10.5	10.0	5.5	5.0	5.5	5.0	5.0	4.0	7.5	7.0
15	17.0	16.0	10.0	10.0	5.5	5.0	5.5	4.5	5.0	4.5	7.5	7.0
16	16.5	16.0	10.0	10.0	5.0	5.0	5.5	5.0	5.0	4.5	7.5	6.5
17	16.5	16.0	10.0	9.5	5.5	5.0	5.5	5.0	5.5	5.0	7.0	7.0
18	16.0	15.5	9.5	9.0	5.0	5.0	5.0	4.5	5.5	5.0	8.0	7.0
19	15.5	15.0	9.5	9.0	5.0	5.0	4.5	4.5	5.5	5.0	7.5	7.0
20	15.0	14.5	9.0	9.0	5.0	5.0	4.5	4.5	6.0	5.0	7.5	7.0
21	15.0	14.5	9.0	8.5	5.0	5.0	5.0	4.5	6.0	5.5	8.0	6.5
22	14.5	14.0	8.5	8.0	5.0	4.5	5.0	4.5	6.0	5.5	8.0	7.0
23	14.5	14.0	8.5	8.0	5.0	4.5	5.0	4.5	6.0	5.0	8.0	7.0
24	14.5	13.5	8.5	7.5	4.5	4.5	4.5	4.5	6.5	6.0	8.0	7.0
25	14.0	13.5	8.5	8.0	4.5	4.5	4.5	4.0	6.5	6.0	7.5	7.0
26	14.0	13.5	8.0	7.5	5.0	4.5	4.5	4.0	6.5	6.0	8.0	7.0
27	14.0	13.5	8.0	7.5	4.5	4.5	4.0	3.5	6.5	6.0	8.5	7.0
28	13.5	13.5	7.5	7.5	4.5	4.5	4.0	3.5	7.0	6.5	8.5	7.0
29	13.5	13.0	7.5	7.0	4.5	4.5	3.5	3.0	7.0	6.0	9.0	7.0
30	13.0	12.5	7.5	7.0	4.5	4.0	3.5	3.0	---	---	8.5	7.0
31	13.0	13.0	---	---	4.5	4.5	3.5	3.5	---	---	8.0	7.5
MONTH	18.0	12.5	13.0	7.0	7.0	4.0	6.0	3.0	7.0	3.0	9.0	6.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.0	14.0	12.0	17.5	15.5						
2	8.0	7.0	14.5	12.5	16.0	15.0						
3	7.5	7.0	14.0	13.0	15.5	14.5						
4	7.5	7.0	14.0	13.5	16.0	14.5						
5	8.0	7.0	15.5	13.5	15.5	14.5						
6	8.0	7.0	15.5	13.5	15.5	14.5						
7	8.0	7.0	15.0	13.5	16.0	14.5						
8	8.5	7.5	14.5	14.0	17.0	14.5						
9	8.5	7.5	14.0	13.0	17.5	15.5						
10	9.5	7.5	14.0	12.5	17.5	15.5						
11	9.5	8.0	14.5	13.0	17.5	15.5						
12	9.5	8.0	14.5	13.5	16.0	15.0						
13	10.0	8.0	15.0	13.5	17.0	15.5						
14	8.5	8.0	15.5	13.5	16.0	15.5						
15	10.0	8.0	15.5	13.5	17.0	15.0						
16	10.5	9.0	15.0	14.0	18.5	16.0						
17	10.5	9.0	15.5	13.5	18.0	15.5						
18	11.0	9.5	16.0	14.0	18.5	16.5						
19	11.5	10.0	16.0	14.5	18.0	16.5						
20	10.5	9.0	16.0	15.0	18.0	16.5						
21	11.0	9.5	17.5	15.0	18.5	16.5						
22	12.5	10.0	16.5	15.0	17.5	16.5						
23	12.0	10.0	15.5	14.0	19.0	17.0						
24	12.0	11.0	15.5	14.0	18.5	16.0						
25	13.0	11.0	15.0	14.0	18.0	16.5						
26	13.0	11.0	15.5	14.0	19.5	17.0						
27	13.0	11.5	16.0	14.5	20.0	17.0						
28	15.0	12.0	16.5	15.0	20.5	18.0						
29	14.5	12.5	17.0	15.0	20.5	18.5						
30	14.0	12.0	17.0	15.0	20.0	18.5						
31	---	---	17.5	15.5	---	---						
MONTH	15.0	7.0	17.5	12.0	20.5	14.5						

## KLAMATH RIVER BASIN

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 mi<sup>2</sup> (2,054 km<sup>2</sup>).

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 good. Flow partly regulated by Lake Dwinnell beginning in 1928; storage limited to 50,000 acre-ft (61.6 hm<sup>3</sup>). Many diversions above station for irrigation.

AVERAGE DISCHARGE.--43 years, 186 ft<sup>3</sup>/s (5.268 m<sup>3</sup>/s), 134,800 acre-ft/yr (166 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft<sup>3</sup>/s (609 m<sup>3</sup>/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 ft<sup>3</sup>/s (116 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum, 3.4 ft<sup>3</sup>/s (0.10 m<sup>3</sup>/s) Aug. 13, 1939, when about 2 ft<sup>3</sup>/s (0.06 m<sup>3</sup>/s) was being diverted around gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,070 ft<sup>3</sup>/s (86.9 m<sup>3</sup>/s) Jan. 13, gage height, 7.52 ft (2.292 m); minimum daily, 11 ft<sup>3</sup>/s (0.31 m<sup>3</sup>/s) Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	175	207	230	278	386	214	105	85	49	42	43
2	115	175	329	215	288	373	216	105	83	42	37	38
3	115	178	595	202	491	366	219	112	83	50	27	30
4	111	181	361	199	542	393	215	92	134	46	20	34
5	82	172	320	208	409	380	220	92	184	41	22	34
6	74	169	263	250	388	356	243	90	200	39	25	33
7	80	169	237	237	347	339	226	88	181	37	30	35
8	92	166	224	211	318	321	219	86	166	34	23	54
9	96	166	214	207	309	307	210	100	151	32	28	41
10	88	163	207	220	296	304	206	124	129	38	37	47
11	91	166	198	221	285	295	184	134	100	24	38	81
12	99	163	193	1300	278	290	178	129	115	19	30	76
13	100	163	190	2410	275	294	172	129	160	40	24	76
14	107	163	186	2180	273	341	154	132	219	38	24	83
15	157	163	185	1250	270	332	145	137	223	43	21	73
16	160	184	182	884	264	308	136	120	196	40	25	44
17	148	356	183	809	272	302	120	115	148	36	28	32
18	142	304	181	618	454	298	110	107	142	33	19	41
19	148	231	174	491	653	273	100	110	129	31	13	48
20	166	195	172	434	688	257	120	100	112	39	12	45
21	178	181	177	399	602	250	301	88	85	31	11	56
22	175	198	178	377	549	242	255	81	81	34	14	84
23	163	260	181	357	495	235	226	97	80	26	34	89
24	166	629	188	343	430	226	190	132	81	21	27	88
25	219	475	198	331	397	233	160	129	80	19	40	94
26	249	397	189	306	375	229	154	110	66	20	38	99
27	223	319	185	310	362	215	145	107	64	21	32	88
28	187	263	181	286	416	209	139	105	63	31	40	92
29	178	252	180	267	421	209	120	107	61	67	51	94
30	181	215	184	257	---	207	115	97	54	63	53	96
31	181	---	212	260	---	207	---	86	---	46	40	---
TOTAL	4387	6991	6854	16269	11425	8977	5412	3346	3655	1130	905	1868
MEAN	142	233	221	525	394	290	180	108	122	36.5	29.2	62.3
MAX	249	629	595	2410	688	393	301	137	223	67	53	99
MIN	74	163	172	199	264	207	100	81	54	19	11	30
AC-FT	8700	13870	13590	32270	22660	17810	10730	6640	7250	2240	1800	3710
CAL YR 1979 TOTAL	49679.1		MEAN 136	MAX 629	MIN 7.9	AC-FT 98540						
WTR YR 1980 TOTAL	71219.0		MEAN 195	MAX 2410	MIN 11	AC-FT 141300						



## 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 mi<sup>2</sup> (1,691 km<sup>2</sup>).

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 good. Diversions for irrigation of about 30,000 acres (121 km<sup>2</sup>) above station.

AVERAGE DISCHARGE.--39 years, 659 ft<sup>3</sup>/s (18.66 m<sup>3</sup>/s), 477,400 acre-ft/yr (589 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,600 ft<sup>3</sup>/s (1,550 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 25.34 ft (7.724 m) from floodmarks, from rating curve extended above 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s) on basis of slope-area measurement at 21.40 ft (6.523 m), site and datum then in use; minimum daily, 5.4 ft<sup>3</sup>/s (0.15 m<sup>3</sup>/s) Aug. 31, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft<sup>3</sup>/s (56.6 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Nov. 24	2200	3,410 96.6	10.02 3.054	Feb. 19	0500	4,010 114	10.68 3.255
Dec. 3	0215	3,760 106	10.33 3.149	Feb. 28	0845	3,780 107	10.34 3.152
Jan. 13	0845	*13,100 371	15.85 4.831	Apr. 21	0145	2,000 56.6	8.37 2.551

Minimum daily, 21 ft<sup>3</sup>/s (0.59 m<sup>3</sup>/s) Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	189	517	666	684	1900	641	1200	490	281	51	31
2	22	175	1340	618	707	1680	627	1120	492	248	50	31
3	22	184	2870	559	1510	1530	607	1110	510	236	49	30
4	22	196	1570	531	1500	1380	599	1180	534	224	47	28
5	22	211	1230	580	1220	1320	641	1220	592	211	46	29
6	21	228	1010	782	1250	1220	707	1140	612	193	45	30
7	22	278	879	733	1130	1130	669	1030	560	179	44	30
8	23	242	779	664	1050	1050	629	980	537	161	42	29
9	24	211	714	639	979	986	682	930	557	141	41	28
10	24	186	664	699	913	933	721	920	569	133	40	27
11	24	178	603	689	860	895	672	870	544	121	40	27
12	24	192	547	5330	803	851	663	805	567	115	40	27
13	24	155	503	11700	768	852	706	800	616	110	39	28
14	24	150	466	10600	737	1130	791	785	677	106	39	28
15	25	145	443	6190	707	1150	828	780	612	99	38	30
16	26	263	417	3980	730	960	810	760	567	92	37	33
17	27	656	399	3370	1190	912	898	720	571	89	36	33
18	28	483	383	2640	3470	876	1050	690	580	81	35	33
19	33	368	380	2170	3640	823	1150	720	570	78	35	33
20	40	305	384	1880	2680	794	1520	750	549	80	35	33
21	47	270	448	1670	2030	776	1780	755	517	78	34	33
22	62	270	448	1520	1770	753	1390	720	471	77	33	33
23	68	332	418	1390	1570	735	1250	680	453	68	33	37
24	89	1790	420	1290	1400	704	1250	620	401	64	33	38
25	1040	2210	425	1200	1320	729	1180	590	371	61	32	39
26	742	1280	411	1100	1450	710	1190	560	334	59	31	37
27	352	912	398	1020	1780	685	1280	530	306	57	30	37
28	267	738	380	905	3210	663	1430	510	286	56	30	36
29	228	633	370	779	2280	647	1520	495	287	55	30	36
30	208	569	393	709	---	629	1370	492	296	54	30	34
31	196	---	566	710	---	634	---	490	---	53	30	---
TOTAL	3798	13999	20775	67313	43338	30037	29251	24952	15028	3660	1175	958
MEAN	123	467	670	2171	1494	969	975	805	501	118	37.9	31.9
MAX	1040	2210	2870	11700	3640	1900	1780	1220	677	281	51	39
MIN	21	145	370	531	684	629	599	490	286	53	30	27
AC-FT	7530	27770	41210	133500	85960	59580	58020	49490	29810	7260	2330	1900
CAL YR 1979	TOTAL	144319	MEAN 395	MAX 2870	MIN 18	AC-FT 286300						
WTR YR 1980	TOTAL	254284	MEAN 695	MAX 11700	MIN 21	AC-FT 504400						

## KLAMATH RIVER BASIN

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 mi<sup>2</sup> (17,975 km<sup>2</sup>), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1912 to September 1925, July 1951 to current year. Monthly discharges only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m) from river-profile map. November 1912 to June 1925, nonrecording gage at site 3.5 mi (5.6 km) upstream at different datum.

REMARKS.--Records excellent. Flow regulated considerably by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--42 years, 4,073 ft<sup>3</sup>/s (115.3 m<sup>3</sup>/s), 2,951,000 acre-ft/yr (3.64 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165,000 ft<sup>3</sup>/s (4,670 m<sup>3</sup>/s) Dec. 23, 1964, gage height, 33.75 ft (10.287 m) from floodmarks, from rating curve extended above 49,000 ft<sup>3</sup>/s (1,390 m<sup>3</sup>/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 ft<sup>3</sup>/s (9.06 m<sup>3</sup>/s) Nov. 25, 1917.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41,400 ft<sup>3</sup>/s (1,170 m<sup>3</sup>/s) Jan. 14, gage height, 17.49 ft (5.331 m); minimum daily, 980 ft<sup>3</sup>/s (27.8 m<sup>3</sup>/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1520	2030	2610	3350	5310	8980	3700	5180	2380	1550	1100	1320
2	1500	2000	3860	3480	5370	8630	3620	5090	2230	1510	1300	1500
3	1500	2020	8470	3080	7060	8420	3600	5180	2190	1500	1290	1500
4	1490	2070	5710	2930	7360	7690	3360	5430	2180	1490	1270	1510
5	1490	2120	4920	2980	6540	7510	3400	5570	2320	1460	1260	1520
6	1470	2110	4350	3400	6340	6690	3540	5600	2380	1440	1260	1500
7	1470	2120	3990	3340	6000	6310	3440	4800	2260	1430	1260	1490
8	1480	2110	3510	3480	5950	6080	3380	4260	2210	1400	1250	1510
9	1500	2030	3330	3540	5830	5920	3600	4040	2230	1370	1250	1510
10	1490	2000	3200	3620	5690	5790	3600	3880	2210	1370	1260	1500
11	1490	1960	2880	3600	5570	5740	3510	3650	2140	1370	1260	1510
12	1500	1930	2740	15200	5080	5610	3730	3530	2160	1300	1250	1560
13	1520	1910	2650	30400	4020	5730	3850	3420	2230	1280	1230	1550
14	1550	1890	2570	35200	3810	6870	3950	3610	2320	1250	1230	1560
15	1620	1880	2510	22000	3750	7190	3940	3730	2310	1230	1230	1560
16	1630	2130	2450	16000	3710	6420	3910	4110	2210	1220	1210	1530
17	1610	3010	2410	14900	4130	6230	4000	3780	2160	1190	1220	1490
18	1620	2910	2380	12400	7510	7140	4150	3670	2130	1160	1220	1510
19	1810	2570	2400	10500	8670	6730	4320	3730	2110	1140	1210	1520
20	1980	2370	2400	9710	9930	6200	4900	3840	2100	1130	1220	1520
21	1890	2250	2630	8760	10500	6070	5460	4030	2000	1100	1200	1520
22	1830	2340	2620	8230	10000	5950	4980	3670	1920	1080	1180	1540
23	1910	2580	2620	7510	9370	5910	5190	3130	2020	1040	1200	1560
24	2010	5240	2720	6710	8900	5780	4800	2930	1940	1020	1210	1560
25	3750	6470	2720	5900	8690	5540	4570	2850	1730	999	1210	1560
26	3310	4350	2630	5870	8690	4740	4200	2710	1690	980	1210	1560
27	2500	3560	2550	5700	8940	4350	4270	2610	1660	984	1200	1560
28	2280	3110	2490	5530	11000	3960	4520	2560	1610	1010	1210	1560
29	2120	2880	2450	5330	9700	3830	5070	2490	1600	1030	1220	1550
30	2070	2730	2510	5230	---	3780	4920	2490	1580	1030	1240	1550
31	2090	---	3000	5320	---	3770	---	2470	---	1010	1230	---
TOTAL	57000	78680	98280	273200	203420	189560	123480	118040	62210	38073	38090	45690
MEAN	1839	2623	3170	8813	7014	6115	4116	3808	2074	1228	1229	1523
MAX	3750	6470	8470	35200	11000	8980	5460	5600	2380	1550	1300	1560
MIN	1470	1880	2380	2930	3710	3770	3360	2470	1580	980	1100	1320
AC-FT	113100	156100	194900	541900	403500	376000	244900	234100	123400	75520	75550	90630
CAL YR 1979 TOTAL	917329		MEAN	2513	MAX	8470	MIN	926	AC-FT	1820000		
WTR YR 1980 TOTAL	1325723		MEAN	3622	MAX	35200	MIN	980	AC-FT	2630000		

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.

PERIOD OF RECORD.--September 1911 to September 1921 (fragmentary), December 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. 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.

AVERAGE DISCHARGE.--26 years (water years 1912-14, 1958-80), 430 ft<sup>3</sup>/s (12.18 m<sup>3</sup>/s), 311,500 acre-ft/yr (384 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft<sup>3</sup>/s (1,100 m<sup>3</sup>/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 ft<sup>3</sup>/s (170 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 29.0 ft (8.84 m), previous site and datum; minimum observed, 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/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 ft<sup>3</sup>/s (651 m<sup>3</sup>/s) on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft<sup>3</sup>/s (56.6 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)		Gage height (ft) (m)		Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)		Gage height (ft) (m)	
Nov. 24	1015	3,650	103	9.30	2.834	Feb. 18	1900	2,480	70.2	8.19	2.496
Dec. 2	1745	3,760	106	9.38	2.859	Feb. 27	1900	2,380	67.4	8.10	2.469
Jan. 12	1000	*10,800	306	13.34	4.066						

Minimum daily, 37 ft<sup>3</sup>/s (1.048 m<sup>3</sup>/s) several days in October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	200	321	986	426	1120	459	566	246	122	63	47
2	38	179	1850	832	509	952	435	561	240	118	63	46
3	38	227	1670	698	1400	881	433	591	230	114	62	46
4	38	385	1030	607	903	814	491	619	220	112	61	47
5	37	566	825	737	797	772	759	579	213	110	60	46
6	37	485	672	853	804	717	798	524	203	109	60	45
7	38	421	569	725	701	662	708	479	201	106	59	45
8	38	316	516	629	646	609	662	459	200	103	58	45
9	37	253	465	577	590	571	835	467	200	102	57	44
10	37	212	426	555	551	537	780	419	194	100	57	45
11	37	186	380	646	520	521	720	400	189	96	55	44
12	37	169	337	7600	488	491	719	396	188	94	56	43
13	38	155	312	7910	462	591	801	397	188	93	55	51
14	60	145	296	5560	440	962	885	389	183	91	54	47
15	72	138	274	3220	421	822	811	375	175	90	54	47
16	51	334	256	2360	423	701	777	358	173	87	54	45
17	46	463	245	1900	685	658	821	346	175	85	53	44
18	56	419	252	1420	1920	638	815	349	166	82	52	46
19	192	349	367	1170	2030	613	854	353	162	80	53	48
20	242	296	445	1030	1490	632	924	346	159	78	52	47
21	156	259	653	900	1130	603	788	349	152	78	51	47
22	197	447	537	809	997	580	686	334	151	76	51	45
23	272	505	495	742	889	582	663	314	148	74	51	44
24	873	2580	440	685	797	560	656	294	145	71	50	43
25	1510	1280	389	644	908	544	638	275	147	69	49	42
26	458	770	362	603	1290	524	636	266	142	67	48	41
27	327	570	341	559	1780	503	686	254	135	66	48	40
28	290	463	324	516	1850	493	742	247	131	66	48	41
29	230	397	312	480	1380	494	681	244	132	65	48	42
30	240	350	393	455	---	493	600	244	128	64	48	41
31	240	---	933	438	---	484	---	243	---	63	48	---
TOTAL	6000	13519	16687	46846	27227	20124	21263	12037	5316	2731	1678	1344
MEAN	194	451	538	1511	939	649	709	388	177	88.1	54.1	44.8
MAX	1510	2580	1850	7910	2030	1120	924	619	246	122	63	51
MIN	37	138	245	438	421	484	433	243	128	63	48	40
AC-FT	11900	26810	33100	92920	54000	39920	42180	23880	10540	5420	3330	2670
CAL YR 1979	TOTAL	119809	MEAN	328	MAX	3410	MIN	37	AC-FT	237600		
WTR YR 1980	TOTAL	174772	MEAN	478	MAX	7910	MIN	37	AC-FT	346700		

## KLAMATH RIVER BASIN

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 mi<sup>2</sup> (1,945 km<sup>2</sup>).

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.--57 years, 1,794 ft<sup>3</sup>/s (50.81 m<sup>3</sup>/s), 1,300,000 acre-ft/yr (1.60 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133,000 ft<sup>3</sup>/s (3,770 m<sup>3</sup>/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 ft<sup>3</sup>/s (935 m<sup>3</sup>/s); minimum, 70 ft<sup>3</sup>/s (1.98 m<sup>3</sup>/s) Aug. 25, Sept. 4, 5, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10,000 ft<sup>3</sup>/s (283 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Oct. 25	0830	10400	295	Feb. 29	unknown	11400	323
Jan. 12	2315	*30600	867				11.10 3.383
			17.82 5.432				

Minimum daily discharge, 152 ft<sup>3</sup>/s (4.30 m<sup>3</sup>/s) Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	736	1850	3100	1910	4750	1790	3090	1770	992	323	206
2	161	699	3300	2800	1900	4000	1700	3060	1710	1020	307	205
3	161	960	5700	2560	2300	3850	1670	3210	1500	1010	297	204
4	155	1220	4300	2320	3940	3560	1680	3560	1390	951	289	201
5	155	1560	3400	2940	3170	3400	1940	3520	1430	849	279	195
6	155	1510	2900	3330	2970	3170	2100	3400	1340	834	276	191
7	155	1410	2600	2970	2960	2950	1920	3030	1320	812	266	191
8	155	1140	2300	2660	2690	2760	1880	2910	1420	754	265	188
9	155	960	2100	2620	2540	2590	2380	2760	1560	706	256	188
10	155	841	1900	2720	2370	2470	2520	2440	1600	672	249	185
11	155	757	1700	2710	2230	2390	2400	2250	1530	640	246	185
12	152	694	1580	18500	2120	2220	2400	2150	1480	633	236	181
13	153	643	1470	23500	2020	2540	2610	1520	1520	627	232	188
14	191	605	1380	20200	1930	4460	2860	2180	1460	614	228	185
15	279	573	1280	13400	1860	4260	2700	2160	1300	608	229	185
16	245	1500	1220	8850	1810	3650	2640	2150	1370	614	225	185
17	203	2300	1150	7550	1820	3340	2890	2150	1560	608	221	185
18	213	1950	1100	5880	2780	3110	3050	2280	1570	572	211	195
19	1040	1610	1200	4890	5450	2850	3170	2520	1540	543	215	195
20	1240	1420	1400	4250	5380	2830	4010	2720	1570	521	215	185
21	890	1300	1860	3770	4670	2700	3670	2890	1460	516	214	208
22	728	1580	1780	3430	3980	2570	3090	2660	1350	494	210	225
23	982	2600	1600	3170	3600	2500	3060	2190	1210	472	208	218
24	1390	6000	1850	2980	3250	2410	3100	1940	1110	461	208	211
25	6230	4200	1750	2820	3030	2360	2990	1760	1080	440	205	198
26	2400	3300	1600	2660	3080	2240	3060	1600	1040	420	207	188
27	1410	2850	1480	2510	3360	2110	3270	1500	976	405	203	181
28	1120	2460	1380	2360	5000	2000	3670	1470	984	381	201	174
29	886	2240	1300	2200	9000	1960	3720	1460	1070	381	207	171
30	796	2030	1500	2080	---	1920	3260	1520	1050	362	206	171
31	848	---	2100	1950	---	1870	---	1650	---	343	206	---
TOTAL	23122	51648	62030	167680	93120	89790	81200	74300	41270	19255	7340	5768
MEAN	746	1722	2001	5409	3211	2896	2707	2397	1376	621	237	192
MAX	6230	6000	5700	23500	9000	4750	4010	3560	1770	1020	323	225
MIN	152	573	1100	1950	1810	1870	1670	1460	976	343	201	171
AC-FT	45860	102400	123000	332600	184700	178100	161100	147400	81860	38190	14560	11440
CAL YR 1979 TOTAL	490176			1343	MAX 9680	MIN 152	AC-FT	972300				
WTR YR 1980 TOTAL	716523			1958	MAX 23500	MIN 152	AC-FT	1421000				

## 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 mi<sup>2</sup> (21,950 km<sup>2</sup>), 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.--53 years, 8,121 ft<sup>3</sup>/s (230.0 m<sup>3</sup>/s), 5,884,000 acre-ft/yr (7.25 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 307,000 ft<sup>3</sup>/s (8,690 m<sup>3</sup>/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 ft<sup>3</sup>/s (2,270 m<sup>3</sup>/s) by slope-conveyance study; minimum daily, 320 ft<sup>3</sup>/s (9.06 m<sup>3</sup>/s) Aug. 25, Sept. 1, 1951.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 40,000 ft<sup>3</sup>/s (1,130 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Nov. 24	1400	46600 1320	16.37 4.990
Jan. 12	2245	*121000 3430	24.15 7.361

Minimum daily discharge, 1,700 ft<sup>3</sup>/s (48.1 m<sup>3</sup>/s) Oct. 6-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1750	3840	6980	13300	10400	21600	8660	11400	5500	3400	1820	1840
2	1740	3600	13500	12000	10500	19900	8380	11400	5300	3360	1850	1910
3	1730	3920	22700	11200	17000	19000	8220	11500	5020	3330	1920	1960
4	1720	4800	16700	10700	16700	18000	8330	12100	4840	3270	1910	1970
5	1720	6000	13600	11000	14500	17200	9590	12200	4890	3180	1900	1970
6	1700	6800	11600	12900	14400	16100	10500	12000	4820	3130	1890	1960
7	1700	5640	10300	11800	13400	14900	9940	11000	4760	3060	1900	1940
8	1700	4810	9260	10600	12700	14100	9330	9970	4740	2990	1890	1940
9	1710	4200	8430	10400	12200	13400	10700	9470	4790	2910	1890	1950
10	1710	3810	7850	10700	11700	13000	11000	8790	4780	2860	1880	1950
11	1710	3570	7260	10400	11300	12700	10400	8250	4660	2810	1870	1940
12	1710	3390	6660	68600	10900	12300	10300	7990	4570	2750	1880	1940
13	1720	3240	6260	104000	9870	13600	11000	7740	4650	2740	1870	1970
14	1820	3110	5960	93500	9090	21300	11800	7760	4640	2670	1860	1960
15	1980	3010	5720	57200	8880	20300	11300	7950	4520	2630	1840	1990
16	1900	5310	5480	36600	8730	17100	10900	7970	4460	2600	1850	1980
17	1830	8190	5250	31500	9720	15500	11400	8140	4530	2570	1850	1940
18	1870	7770	5080	26200	18800	15000	11600	7760	4460	2520	1860	1940
19	3850	6360	5640	22100	26200	14600	12000	8100	4400	2460	1860	1980
20	6060	5330	6210	19600	24700	14000	13700	8390	4360	2390	1860	1980
21	4700	4710	8260	17800	23500	13300	13700	8740	4250	2340	1850	1970
22	3680	6010	7960	16400	21100	12700	12400	8490	4090	2300	1850	1960
23	5190	9720	7660	15100	19900	12400	11900	7330	3960	2250	1830	1960
24	7000	29900	8350	14000	18700	12000	12100	6610	3960	2220	1830	1960
25	18000	22500	7800	12900	18400	11700	11400	6310	3790	2160	1840	1960
26	10000	15300	7270	12300	20400	11000	11200	5900	3670	2090	1830	1960
27	6260	11500	6820	11800	21800	10000	11300	5610	3570	2020	1840	1950
28	5240	9510	6440	11300	27500	9480	12200	5460	3510	1940	1830	1950
29	4410	8290	6140	10900	24800	9090	12400	5350	3500	1900	1840	1940
30	4030	7560	6700	10800	---	8970	11700	5350	3460	1870	1830	1940
31	4180	---	10700	10500	---	8800	---	5440	---	1840	1840	---
TOTAL	114320	221700	264540	728100	467790	443040	329350	260470	132450	80560	57660	58560
MEAN	3688	7390	8534	23490	16130	14290	10980	8402	4415	2599	1860	1952
MAX	18000	29900	22700	104000	27500	21600	13700	12200	5500	3400	1920	1990
MIN	1700	3010	5080	10400	8730	8800	8220	5350	3460	1840	1820	1840
AC-FT	226800	439700	524700	1444000	927900	878800	653300	516600	262700	159800	114400	116200
CAL YR 1979 TOTAL	2113030			MEAN 5789	MAX 33100	MIN 1540	AC-FT 4191000					
WTR YR 1980 TOTAL	3158540			MEAN 8630	MAX 104000	MIN 1700	AC-FT 6265000					

## KLAMATH RIVER BASIN

11523000 KLAMATH RIVER AT ORLEANS, 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 1966 to current year.

SEDIMENT RECORDS: Water years 1955-59, 1967 to September 1979. Prior to October 1966, published as "at Somebar."

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1965 to current year.

SEDIMENT RECORDS: January 1967 to September 1979.

INSTRUMENTATION.--Temperature recorder since October 1965.

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 27, 1973; minimum recorded, 0.0°C Dec. 22, 23, 1968, Jan. 9-11, 1974.

SEDIMENT CONCENTRATIONS (water years 1968-79): Maximum daily mean, 4,690 mg/L Jan. 16, 1974; minimum daily mean, 1 mg/L Aug. 25-27, 1972.

SEDIMENT DISCHARGE (water years 1968-79): Maximum daily, 3,040,000 tons (2,760,000 metric tons) Jan. 16, 1974; minimum daily, 4.7 tons (4.3 metric tons) Aug. 27, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 25.0°C July 27-29; minimum recorded, 3.0°C Jan. 30.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CAC03)
OCT 01...	1105	1740	--	8.1	18.5	1.0	10.4	--
NOV 05...	1115	7020	--	7.5	11.0	3.0	11.2	--
DEC 04...	1135	16600	--	7.5	8.0	27	12.5	--
JAN 08...	1140	10600	--	7.8	8.0	3.0	12.6	--
FEB 04...	1145	16800	--	8.3	9.0	15	12.5	--
MAR 03...	1040	18900	--	--	--	--	--	--
APR 07...	1100	10200	--	--	--	--	--	--
MAY 05...	1050	12400	129	8.3	17.0	5.0	11.2	54
JUN 03...	1015	--	--	7.8	15.0	2.0	10.7	--
JUL 08...	1200	--	--	8.1	21.5	1.0	9.5	--
18...	1200	--	--	8.1	--	--	--	--
AUG 19...	1100	--	--	8.1	22.5	2.0	9.2	--
SEP 15...	1325	--	--	8.2	19.0	1.0	10.3	--

DATE	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)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	BORON, DIS- SOLVED (UG/L AS B)
OCT 01...	--	--	--	--	--	--	--	--
NOV 05...	--	--	--	--	--	--	--	--
DEC 04...	--	--	--	--	--	--	--	--
JAN 08...	--	--	--	--	--	--	--	--
FEB 04...	--	--	--	--	--	--	--	--
MAR 03...	--	--	--	--	--	--	--	--
APR 07...	--	--	--	--	--	--	--	--
MAY 05...	12	6.0	6.0	19	.4	1.0	2.0	0
JUN 03...	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--
AUG 19...	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--

11523000 KLAMATH RIVER AT ORLEANS, CA--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	6.5	6.0	7.0	6.5	5.5	4.0	8.5	8.0
2	---	---	---	---	7.5	6.5	---	---	6.5	5.5	8.5	8.0
3	---	---	---	---	7.5	7.5	---	---	7.0	6.5	8.5	8.5
4	---	---	---	---	7.5	7.0	7.0	6.5	7.0	7.0	8.5	8.0
5	19.5	18.0	---	---	7.5	7.5	7.5	7.0	7.0	6.5	8.5	8.0
6	19.0	18.5	---	---	7.5	7.5	7.5	7.5	7.0	7.0	9.0	8.0
7	18.5	17.5	11.0	10.5	7.5	7.0	7.5	7.0	7.0	6.5	8.5	8.0
8	18.5	18.0	11.0	10.0	7.5	7.0	7.0	6.5	6.5	6.0	9.0	8.0
9	19.0	18.0	10.0	9.0	7.5	7.5	7.0	6.5	6.0	6.0	9.0	8.0
10	18.0	17.5	9.5	8.5	7.5	7.0	7.0	6.0	7.0	6.0	9.0	8.5
11	17.5	17.0	9.5	8.5	6.5	5.0	6.0	5.5	6.5	6.0	9.0	8.5
12	17.5	17.0	9.5	8.5	5.0	4.5	7.5	5.5	6.0	6.0	8.5	8.0
13	17.5	17.5	8.5	8.0	4.5	4.0	8.0	7.5	6.5	6.0	8.0	7.5
14	17.5	17.0	9.0	8.0	4.5	4.0	8.0	8.0	6.5	6.0	7.5	7.0
15	17.0	17.0	8.5	8.0	4.5	4.0	8.0	8.0	7.5	6.5	7.5	7.5
16	17.5	16.5	9.0	8.0	4.5	4.0	8.5	8.0	8.0	7.5	8.0	7.0
17	17.0	16.5	9.0	8.0	5.0	4.0	8.5	7.5	8.0	8.0	8.0	7.5
18	17.0	15.5	9.0	8.5	5.5	5.0	7.5	6.0	8.0	7.5	8.5	7.5
19	---	---	9.0	7.5	6.5	5.5	6.0	5.5	7.5	7.5	8.5	7.5
20	---	---	8.5	7.0	7.0	6.5	5.5	5.5	8.0	7.5	8.5	8.5
21	---	---	7.5	6.5	7.0	7.0	5.5	5.5	8.0	7.5	9.0	7.5
22	---	---	7.5	6.5	7.0	6.0	6.5	5.5	8.0	7.5	9.0	7.5
23	---	---	7.5	6.5	6.0	4.5	6.5	6.0	7.5	7.0	9.0	8.0
24	---	---	7.5	6.5	4.5	4.0	6.5	6.0	8.0	7.5	9.0	8.0
25	---	---	7.0	6.0	5.5	4.5	6.5	6.0	8.0	8.0	9.0	8.5
26	---	---	6.5	5.5	6.0	5.5	6.0	5.5	9.0	8.0	9.0	9.0
27	---	---	6.0	5.5	5.5	5.5	5.5	5.5	9.0	8.5	9.0	8.0
28	---	---	6.0	5.5	5.5	5.0	5.5	4.5	8.5	8.0	9.5	8.5
29	---	---	6.0	6.0	5.5	5.0	4.5	3.5	8.5	7.5	10.0	9.0
30	---	---	6.5	6.0	6.0	5.5	3.5	3.0	---	---	9.5	8.5
31	---	---	---	---	6.5	6.0	4.0	3.5	---	---	9.0	8.5
MONTH	---	---	11.0	5.5	7.5	4.0	8.5	3.0	9.0	4.0	10.0	7.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.0	13.0	11.5	17.0	16.0	21.0	19.5	24.0	22.5	20.5	20.0
2	9.0	8.0	13.5	12.0	16.5	15.0	21.0	20.0	23.5	22.0	21.0	20.0
3	8.5	8.0	14.0	13.0	15.0	13.5	20.5	19.0	24.0	22.0	22.0	20.5
4	8.5	8.0	14.0	13.5	14.0	13.5	19.5	19.0	24.0	23.0	22.5	21.0
5	8.5	8.0	14.0	13.5	15.0	13.0	19.5	19.0	24.0	22.5	22.5	21.5
6	8.5	8.0	13.5	13.0	15.0	14.0	19.5	18.5	23.0	22.0	22.5	21.0
7	8.5	7.5	13.5	12.0	16.5	14.5	20.0	19.0	23.0	22.0	22.5	21.0
8	9.5	8.5	13.0	12.5	17.5	15.5	20.0	19.5	23.0	21.5	22.0	21.0
9	10.5	9.5	12.5	11.0	18.0	16.0	20.0	19.5	23.0	22.0	22.5	20.5
10	10.0	9.0	11.0	10.0	17.5	16.0	20.0	18.5	23.0	22.0	22.0	21.0
11	10.5	9.5	11.5	10.5	17.0	16.0	20.0	19.0	23.0	22.0	22.0	21.0
12	11.5	10.0	13.5	11.0	16.5	15.5	20.5	19.5	23.0	21.5	22.0	21.0
13	11.5	11.0	13.5	12.5	16.0	15.0	21.5	20.0	23.0	22.0	21.0	20.0
14	11.0	10.5	14.0	13.0	16.0	14.5	21.5	20.5	23.0	22.0	19.5	18.0
15	11.0	10.0	14.5	13.0	17.0	15.0	22.5	21.0	22.5	21.5	18.5	17.0
16	11.5	10.5	14.5	13.0	18.0	16.0	23.0	22.0	22.5	21.0	18.5	17.0
17	12.0	11.0	15.5	13.5	19.0	17.0	23.0	22.0	23.5	21.5	18.5	17.0
18	12.0	11.0	16.0	14.5	19.5	17.5	23.0	22.0	22.5	21.5	19.0	18.0
19	12.5	11.5	16.0	14.5	19.5	17.5	23.0	22.0	22.0	20.5	19.0	18.0
20	12.5	10.5	16.5	15.0	19.0	17.5	23.5	22.0	22.0	21.0	19.0	18.0
21	10.5	9.5	16.5	15.5	19.0	17.5	24.0	23.0	22.0	21.0	18.0	17.0
22	11.0	9.5	15.5	14.0	19.0	17.0	24.0	23.0	22.0	21.0	18.0	16.5
23	12.0	11.0	14.0	12.5	17.5	16.5	24.0	22.5	22.0	21.0	18.5	16.5
24	12.5	11.5	12.5	11.5	17.0	16.0	24.0	23.5	22.5	21.5	19.0	17.0
25	12.5	11.5	12.5	11.5	17.0	15.5	24.5	23.5	22.5	21.5	19.5	18.0
26	13.0	11.5	13.5	12.0	18.0	16.0	24.5	23.5	22.5	21.5	19.5	18.5
27	13.5	12.5	14.5	12.5	19.0	16.5	25.0	24.0	22.0	21.0	19.0	18.0
28	13.5	13.0	15.5	13.5	20.0	17.5	25.0	24.5	21.5	20.5	19.0	18.0
29	13.5	12.5	16.5	14.5	20.5	18.5	25.0	24.0	21.0	20.5	19.0	18.0
30	13.0	12.0	17.0	15.0	21.0	19.0	24.5	24.0	20.5	19.5	19.0	17.5
31	---	---	17.5	15.5	---	---	24.5	23.5	20.5	19.5	---	---
MONTH	13.5	7.5	17.5	10.0	21.0	13.0	25.0	18.5	24.0	19.5	22.5	16.5
YEAR	25.0	3.0										

## 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.

DRAINAGE AREA.--149 mi<sup>2</sup> (386 km<sup>2</sup>).

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 3.57 ft (1.088 m) lower.

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

AVERAGE DISCHARGE.--23 years, 416 ft<sup>3</sup>/s (11.78 m<sup>3</sup>/s), 301,400 acre-ft/yr (372 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,500 ft<sup>3</sup>/s (750 m<sup>3</sup>/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 ft<sup>3</sup>/s (0.45 m<sup>3</sup>/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 ft<sup>3</sup>/s (323 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft<sup>3</sup>/s (53.8 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 14	1315	3,970 112	8.78 2.676	Feb. 27	1815	4,730 134	9.25 2.819
Feb. 18	1830	* 5,580 158	9.74 2.969	Apr. 20	1545	3,080 87.2	8.22 2.505

Minimum daily, 29 ft<sup>3</sup>/s (0.82 m<sup>3</sup>/s) Oct. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	99	184	306	315	1140	348	1170	498	191	63	44
2	29	103	415	282	311	953	335	1230	467	191	62	43
3	29	173	571	258	550	812	330	1400	398	184	60	43
4	29	195	415	243	535	715	354	1540	406	175	60	42
5	30	318	369	267	466	690	416	1580	394	165	59	41
6	32	609	344	285	452	626	385	1450	371	158	58	40
7	32	415	342	278	424	582	356	1220	361	150	58	39
8	32	289	338	261	402	540	350	1060	387	141	58	40
9	32	228	330	258	381	505	397	911	423	136	55	41
10	32	187	301	253	365	490	446	728	431	130	54	43
11	32	164	264	284	361	468	445	630	426	122	52	44
12	30	147	245	1550	349	451	482	585	411	118	52	42
13	30	140	223	2810	349	453	576	597	400	115	51	42
14	32	129	205	3490	353	536	656	638	372	112	51	48
15	46	123	191	1910	390	492	606	671	338	110	50	47
16	44	251	180	1340	1010	450	690	684	352	107	50	44
17	38	385	170	1140	3330	441	925	697	390	103	50	43
18	52	296	161	906	5010	418	1080	768	396	100	49	50
19	119	234	165	684	3610	401	1200	890	381	96	49	49
20	88	204	181	571	1950	408	2110	1010	365	93	49	46
21	75	190	216	495	1330	392	1550	1010	340	89	46	44
22	77	187	191	470	953	378	1130	874	318	86	46	42
23	94	171	190	460	826	381	1200	665	283	83	46	41
24	247	228	198	470	792	371	1270	543	257	81	45	40
25	1450	244	182	470	982	367	1250	472	240	79	46	40
26	330	212	162	452	1500	353	1360	424	226	77	45	38
27	195	184	155	452	3060	346	1480	401	213	75	44	37
28	152	176	149	415	2620	338	1670	397	210	73	44	36
29	121	176	150	361	1530	353	1570	426	212	71	44	36
30	115	176	169	345	---	361	1300	434	202	68	44	35
31	115	---	278	334	---	357	---	475	---	66	45	---
TOTAL	3789	6633	7634	22100	34506	15568	26267	25580	10468	3545	1585	1260
MEAN	122	221	246	713	1190	502	876	825	349	114	51.1	42.0
MAX	1450	609	571	3490	5010	1140	2110	1580	498	191	63	50
MIN	29	99	149	243	311	338	330	397	202	66	44	35
AC-FT	7520	13160	15140	43840	68440	30880	52100	50740	20760	7030	3140	2500
CAL YR 1979	TOTAL	108680	MEAN 298	MAX 2260	MIN 29	AC-FT 215600						
WTR YR 1980	TOTAL	158935	MEAN 434	MAX 5010	MIN 29	AC-FT 315200						



## 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 mi<sup>2</sup> (1,792 km<sup>2</sup>).

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 km<sup>3</sup>) 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 hm<sup>3</sup>). 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 km<sup>3</sup>) Jan. 19, 1974, elevation, 2,378.32 ft (724.912 m); minimum since lake first filled, 222,400 acre-ft (274 hm<sup>3</sup>) Nov. 9, 1977, elevation, 2,120.22 ft (646.243 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,367,900 acre-ft (2.92 km<sup>3</sup>) June 16, elevation, 2,365.11 ft (720.886 m); minimum, 1,616,200 acre-ft (1.99 km<sup>3</sup>) Nov. 1, 2, elevation, 2,312.60 ft (704.880 m).

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

2,100	162,200	2,250	955,100
2,140	292,800	2,310	1,583,600
2,190	529,600	2,380	2,617,000

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1659900	1616200	1673300	1715500	1934400	2194700	2126200	2217000	2356100	2329800	2234400	2050400
2	1658500	1616200	1679100	1718500	1937100	2195000	2125300	2224100	2356400	2327600	2228100	2044400
3	1656900	1617000	1683900	1721000	1943800	2193600	2124900	2232700	2357100	2326000	2222200	2038800
4	1655500	1617200	1687300	1723200	1948500	2189500	2125900	2241500	2357900	2322400	2216300	2033000
5	1653800	1618800	1690100	1726700	1952500	2185100	2127300	2250000	2358500	2320000	2210300	2026800
6	1652200	1623000	1692600	1729700	1956100	2182300	2128000	2258200	2359000	2317600	2204300	2019200
7	1650300	1624800	1694200	1732400	1959800	2177800	2128600	2264200	2359600	2314500	2198300	2011900
8	1648600	1625400	1696500	1735000	1962900	2173800	2128200	2270600	2360600	2312100	2192200	2004700
9	1647100	1626400	1698600	1737800	1965800	2167900	2128000	2276200	2362000	2309300	2186100	1997500
10	1645300	1627700	1700400	1740200	1968500	2163500	2128900	2280400	2363000	2306500	2179900	1989700
11	1643400	1629000	1701900	1745500	1971100	2157000	2129200	2284300	2363900	2304000	2173700	1982600
12	1641800	1629500	1703200	1768900	1973100	2150300	2129800	2287400	2364900	2301100	2167600	1974700
13	1640400	1629700	1704400	1800800	1975300	2144900	2132100	2290500	2365700	2298500	2164000	1966800
14	1639000	1630400	1705700	1830800	1977600	2143100	2133400	2293900	2366500	2295700	2160600	1959100
15	1638000	1631100	1706700	1849400	1981100	2139900	2135000	2297900	2367100	2292900	2154000	1951900
16	1636100	1637200	1707800	1864600	1991300	2138000	2136800	2301900	2367900	2290000	2147900	1946200
17	1632700	1641100	1708700	1876100	2023300	2135400	2139200	2306300	2366500	2287100	2141600	1940400
18	1630500	1643600	1709300	1884100	2061800	2132800	2142900	2311400	2365200	2284400	2135300	1934900
19	1628100	1645300	1710800	1890400	2090500	2131600	2147000	2317500	2363300	2281300	2129100	1928900
20	1625900	1646300	1712200	1895600	2108900	2130100	2157100	2324100	2361100	2278400	2123400	1922700
21	1623000	1647800	1712700	1900300	2120700	2132500	2163200	2329800	2360900	2275200	2117500	1917000
22	1621000	1649700	1712700	1904700	2129400	2132400	2167700	2333900	2359600	2272100	2111600	1911500
23	1618300	1651500	1715100	1908500	2134800	2132400	2172500	2337100	2356100	2269300	2105600	1906200
24	1618200	1657600	1715800	1912500	2139300	2131300	2177000	2339800	2352400	2265800	2099600	1900600
25	1630400	1661800	1715800	1916300	2144900	2130600	2181300	2341900	2348600	2262700	2093500	1895000
26	1629900	1664900	1715600	1919900	2152600	2129800	2186900	2344100	2345200	2259400	2087100	1889100
27	1628100	1666600	1714000	1923000	2170200	2129100	2191900	2346200	2342100	2256000	2080600	1882500
28	1625600	1668800	1712200	1925400	2185700	2128800	2198000	2347900	2338900	2252300	2074300	1882000
29	1622800	1670300	1710600	1927800	2191300	2128200	2205100	2349800	2335800	2248700	2067800	1878600
30	1619600	1671700	1710600	1930000	---	2127700	2209800	2352400	2332000	2244900	2061800	1878700
31	1617100	---	1711900	1932200	---	2126800	---	2354800	---	2240600	2056200	---
MAX	1659900	1671700	1715800	1932200	2191300	2195000	2209800	2354800	2367900	2329800	2234400	2050400
MIN	1617100	1616200	1673300	1715500	1934400	2126800	2124900	2217000	2320000	2240600	2056200	1878600
†	2312.67	2316.95	2320.04	2336.21	2353.79	2349.53	2355.00	2364.29	2362.86	2357.00	2344.78	2332.40
‡	-43900	+54600	+40200	+220300	+259100	-64500	+83000	+145000	-22800	-91400	-184400	-177500
††	1910	630	310	300	910	2600	4470	6410	6910	9070	8260	5310

CAL YR 1979 ‡ +199600  
WTR YR 1980 ‡ +217700

† 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.--17 years, 1,575 ft<sup>3</sup>/s (44.60 m<sup>3</sup>/s), 1,141,000 acre-ft/yr (1.41 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,910 ft<sup>3</sup>/s (111 m<sup>3</sup>/s) Feb. 11, 1970; no flow many days in many years.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	522	501	0	0	0	1840	1610	535	1340	1760	2680	2620
2	525	486	0	0	0	1850	1560	565	815	1680	2640	2630
3	526	499	0	0	0	2100	1500	420	1130	1420	2630	2650
4	519	500	0	0	86	3230	1530	510	1060	1930	2640	2660
5	523	548	0	0	0	3380	1510	514	1110	1690	2630	2650
6	529	484	0	0	0	2580	1550	568	1050	1620	2650	3190
7	534	499	507	0	0	2590	1310	506	1020	1630	2640	3010
8	525	501	0	0	0	2580	1470	513	986	1600	2630	3110
9	530	41	0	4.0	0	2570	1620	503	1010	1720	2620	3180
10	524	0	0	0	0	2570	1470	505	1010	1690	2620	3210
11	528	0	0	0	0	2850	1480	461	1020	1700	2630	3240
12	468	0	0	4.0	0	3370	1480	515	1010	1700	2770	3240
13	500	0	0	0	0	3570	860	503	1020	1710	1940	3200
14	505	0	0	0	0	3600	1480	496	1010	1700	1180	3240
15	510	0	0	0	0	3600	1480	509	1090	1700	2630	3220
16	680	0	0	0	0	3460	1490	501	1050	1670	2630	2630
17	1390	0	0	4.0	0	3430	1590	506	2510	1670	2620	2620
18	1480	0	0	0	0	3220	1540	503	2520	1840	2620	2640
19	1480	0	0	0	0	2250	1590	588	2500	1690	2620	2620
20	1490	0	0	0	0	2340	1600	537	2580	1660	2640	2630
21	1480	0	877	0	0	564	1580	624	1610	1670	2630	2620
22	1480	0	889	0	0	1680	1320	503	1310	1680	2630	2620
23	1470	0	883	0	0	1560	1600	570	2600	1710	2640	2620
24	1490	0	924	0	0	1820	1590	507	2650	1760	2610	2620
25	1470	0	883	0	0	1530	1600	505	2500	1700	2620	2620
26	1500	0	874	0	4.0	1630	1460	505	2510	1670	2630	2620
27	1510	0	1410	0	0	1600	1970	502	2510	1620	2640	2640
28	1500	0	1440	0	1070	1600	1900	513	2550	1690	2630	278
29	1480	0	1420	0	1870	1610	1500	504	2460	1660	2630	1360
30	1480	0	1430	0	---	1560	1580	500	2490	1630	2620	10
31	1480	---	1300	0	---	1490	---	496	---	2010	2620	---
TOTAL	30628	4059	12837	12.0	3030.0	73624	45820	15987	50031	52580	79560	78198
MEAN	988	135	414	.39	104	2375	1527	516	1668	1696	2566	2607
MAX	1510	548	1440	4.0	1870	3600	1970	624	2650	2010	2770	3240
MIN	468	0	0	0	0	564	860	420	815	1420	1180	10
AC-FT	60750	8050	25460	24	6010	146000	90880	31710	99240	104300	157800	155100
CAL YR 1979 TOTAL	280288.00			MEAN 768	MAX 2770	MIN 0	AC-FT 556000					
WTR YR 1980 TOTAL	446366.00			MEAN 1220	MAX 3600	MIN 0	AC-FT 885400					

## 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 mi<sup>2</sup> (1,862 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1911 to current year.

REVISED RECORDS.--WSP 331: 1911-12. WSP 1181: 1949. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,815.95 ft (553.502 m), revised, 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).--69 years, 1,710 ft<sup>3</sup>/s (48.43 m<sup>3</sup>/s), 1,239,000 acre-ft/yr (1.53 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,600 ft<sup>3</sup>/s (2,030 m<sup>3</sup>/s) Dec. 22, 1955, gage height, 27.3 ft (8.32 m) from floodmarks, site and datum then in use; minimum, 23 ft<sup>3</sup>/s (0.65 m<sup>3</sup>/s) July 30, 1924. Maximum discharge since construction of Lewiston Dam in 1960, 14,400 ft<sup>3</sup>/s (408 m<sup>3</sup>/s) Jan. 18, 1974, gage height, 10.41 ft (3.173 m); minimum daily, 100 ft<sup>3</sup>/s (2.83 m<sup>3</sup>/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, 2,860 ft<sup>3</sup>/s (81.0 m<sup>3</sup>/s) Feb. 29, gage height, 6.55 ft (1.996 m); minimum daily, 232 ft<sup>3</sup>/s (6.57 m<sup>3</sup>/s) Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	295	304	308	307	313	2580	295	298	292	448	468	393
2	297	306	311	301	314	2550	295	298	290	456	462	310
3	298	307	313	304	317	2550	295	298	295	452	458	312
4	295	303	314	312	314	2550	298	298	294	458	388	316
5	295	301	315	313	386	2530	298	293	294	456	299	462
6	295	305	315	312	313	2520	298	293	294	454	300	461
7	293	302	310	315	313	2520	295	294	295	389	307	466
8	293	299	313	311	314	2520	296	295	295	302	469	394
9	295	303	313	313	313	2500	298	294	311	303	466	313
10	301	309	313	316	314	2520	297	293	330	302	463	313
11	301	307	313	313	314	2340	295	292	327	308	394	320
12	301	304	313	317	386	2060	295	292	325	466	306	459
13	299	306	313	317	315	2050	293	292	320	462	306	452
14	232	307	313	315	314	1610	294	289	320	390	309	445
15	299	312	313	312	316	1040	294	288	320	301	464	385
16	298	317	313	310	318	535	293	288	318	303	460	313
17	300	306	313	307	323	292	292	288	316	302	455	313
18	302	304	313	308	343	356	294	288	316	306	389	313
19	301	304	314	310	427	292	293	288	317	458	310	311
20	301	305	314	311	369	295	293	287	320	457	314	313
21	300	307	317	311	484	295	296	288	317	386	320	313
22	300	309	317	312	1450	295	298	288	317	301	468	312
23	301	310	316	312	2060	295	296	287	317	298	462	314
24	304	315	317	311	2050	295	295	280	317	303	457	311
25	306	314	316	310	2040	363	295	291	319	460	404	306
26	302	313	313	310	2030	298	297	292	320	457	312	318
27	300	312	313	309	2020	298	298	291	321	454	313	319
28	299	311	304	309	2170	298	298	291	321	389	320	318
29	301	308	307	384	2560	295	298	292	322	299	473	317
30	304	308	307	313	---	295	299	292	326	300	466	317
31	305	---	307	313	---	298	---	294	---	308	463	---
TOTAL	9213	9218	9691	9718	23500	39535	8871	9032	9386	11728	12245	10509
MEAN	297	307	313	313	810	1275	296	291	313	378	395	350
MAX	306	317	317	384	2560	2580	299	298	330	466	473	466
MIN	232	299	304	301	313	292	292	280	290	298	299	306
AC-FT	18270	18280	19220	19280	46610	78420	17600	17910	18620	23260	24290	20840
MEAN ‡	604	1371	1386	3902	5435	2643	3291	3269	1713	735	96.9	62.7
AC-FT ‡	37130	81560	85200	239900	312600	162500	195800	201000	101900	45180	5960	3730
CAL YR 1979 TOTAL	113659		MEAN 311	MAX 628	MIN 173	AC-FT 225400		MEAN ‡ 1415		AC-FT ‡ 1024000		
WTR YR 1980 TOTAL	162646		MEAN 444	MAX 2580	MIN 232	AC-FT 322600		MEAN ‡ 2028		AC-FT ‡ 1473000		

‡ Adjusted for change in contents and evaporation from Clair Engle Lake and diversion to Judge Francis Carr powerplant.

## KLAMATH RIVER BASIN

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--1951 to current year.

CHEMICAL ANALYSES: Water years 1951 to current year.

WATER TEMPERATURES: Water years 1952-55, 1958 to current year.

SEDIMENT RECORDS: Water years 1955-61.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: September 1951 to September 1955, October 1957 to September 1958, July 1959 to current year.

INSTRUMENTATION.--Temperature recorder September 1951 to September 1955, October 1957 to September 1958, and since July 1959.

REMARKS.--Water temperatures affected by construction of Trinity Dam beginning in November 1960. Extremes are given below for two separate periods--Water years 1952-60, and 1961 to current year.

COOPERATION.--Chemical-quality records furnished by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD (See REMARKS above):

WATER TEMPERATURES (water years 1952-60): Maximum recorded, 26.0°C July 20, 21, 28, 29, 1960; minimum recorded, 1.0°C on several days in 1952.

(Water years 1961 to current year): Maximum recorded, 21.0°C on several days in 1977; minimum recorded, 3.0°C June 22, 23, 1962.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 12.5°C May 20, 21; minimum recorded, 6.0°C Dec. 23, Jan. 30.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)
OCT 01...	0700	297	--	7.1	9.0	1.0	10.6	--
DEC 04...	0750	314	--	7.1	6.5	1.0	11.3	--
FEB 04...	0815	314	95	7.2	6.5	.00	11.4	--
MAY 05...	0655	293	88	7.3	10.0	.00	10.7	4
JUN 03...	0650	292	--	7.4	10.5	1.0	10.8	--
JUL 08...	0755	308	--	7.3	11.0	1.0	11.3	--
SEP 15...	0830	445	--	7.1	8.5	--	11.2	3

DATE	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)
OCT 01...	--	--	--	--	--	--	--	--	--
DEC 04...	--	--	--	--	--	--	--	--	44
FEB 04...	--	44	6.0	7.0	2.0	9	.1	.5	--
MAY 05...	.8	42	5.0	7.0	2.0	9	.1	.5	41
JUN 03...	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--	--
SEP 15...	2.1	--	--	--	--	--	--	--	--

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE 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)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)
OCT 01...	--	--	--	1.1	.02	.30	.01	.00
DEC 04...	--	--	--	.05	.01	.30	.03	.00
FEB 04...	1.0	--	--	.04	.00	.40	.01	.00
MAY 05...	1.0	4	--	.04	.04	.10	.01	.01
JUN 03...	--	--	--	.01	.04	.20	.01	.00
JUL 08...	--	--	--	.01	.02	.50	.12	.02
SEP 15...	--	0	.25	.03	.03	.20	.01	.00

DATE	TIME	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)
FEB 04...	0815	0	0	0	--	--	--
MAY 05...	0655	0	0	0	0	0	0
SEP 15...	0830	--	--	--	0	0	0

DATE	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)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	CARBON, ORGANIC TOTAL (MG/L AS C)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
FEB 04...	--	--	--	--	--	--	--
MAY 05...	40	0	10	.0	0	2.2	.00
SEP 15...	20	0	0	.0	10	2.1	.00

## KLAMATH RIVER BASIN

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	8.5	8.0	7.5	7.0	7.0	7.5	7.0	7.0	6.5	8.0	7.5
2	10.0	9.0	7.5	7.5	7.0	7.0	7.5	7.0	7.0	6.5	7.5	7.5
3	10.0	8.5	7.5	7.5	7.5	7.0	7.5	7.0	7.5	6.5	7.5	7.5
4	10.5	9.0	8.0	7.5	7.0	7.0	7.0	7.0	7.5	6.5	7.5	7.0
5	10.0	9.5	8.0	7.5	7.5	7.0	7.5	7.0	7.0	6.5	7.5	7.0
6	10.0	9.5	8.0	7.5	7.5	7.0	7.5	7.0	7.5	6.5	7.5	7.0
7	10.5	9.5	8.5	7.5	7.5	7.0	7.5	7.0	7.5	6.5	7.5	7.5
8	10.0	9.5	8.0	7.5	7.5	7.0	7.5	7.0	7.5	6.5	7.5	7.5
9	10.5	9.0	8.0	7.5	7.5	7.0	7.5	7.0	7.5	6.5	7.5	7.5
10	10.5	9.0	8.0	7.5	7.5	7.0	7.5	7.0	7.5	6.5	8.0	7.5
11	10.0	9.0	8.0	7.5	7.5	7.0	7.0	7.0	7.5	6.5	8.0	7.5
12	10.0	9.0	8.0	7.5	7.5	7.0	7.5	7.0	8.0	7.0	7.5	7.5
13	10.0	9.0	8.0	7.5	7.5	7.0	7.0	7.0	8.0	7.0	7.5	7.5
14	10.0	9.0	8.5	7.5	7.5	7.0	7.5	7.0	7.5	7.0	7.5	7.0
15	10.0	9.0	8.0	7.5	7.5	7.0	7.0	7.0	8.0	7.5	7.5	7.0
16	10.0	9.0	8.0	8.0	7.5	7.0	7.5	7.0	7.5	7.5	8.0	7.0
17	10.0	9.0	8.5	8.0	7.5	7.0	7.5	7.0	7.5	7.5	7.5	7.0
18	9.0	8.5	8.5	7.5	7.0	7.0	7.5	7.0	8.0	7.5	8.0	7.0
19	9.0	8.0	8.5	7.5	7.0	7.0	7.5	6.5	8.0	7.5	8.5	7.0
20	8.5	8.0	8.5	7.5	7.0	7.0	7.5	6.5	8.5	7.5	8.5	7.0
21	9.0	8.0	8.0	7.5	7.0	6.5	7.5	7.0	8.5	7.5	9.0	7.5
22	8.0	7.5	7.5	7.5	7.0	6.5	7.5	7.0	8.5	8.0	9.0	7.5
23	8.0	7.5	7.5	7.5	6.5	6.0	7.5	7.0	8.5	8.0	9.0	7.5
24	7.5	7.5	7.5	7.5	6.5	6.5	7.5	7.0	8.5	8.5	9.5	7.5
25	8.0	7.5	7.5	7.0	7.0	6.5	7.5	7.0	8.5	8.0	8.5	7.5
26	8.0	7.5	7.5	7.0	7.0	6.5	7.5	6.5	8.0	8.0	9.5	7.5
27	8.5	7.5	7.5	7.0	7.0	6.5	7.5	6.5	8.0	8.0	9.0	7.5
28	8.5	7.5	7.5	7.0	7.0	6.5	7.0	6.5	8.0	8.0	9.5	7.5
29	8.5	7.5	7.5	7.0	7.0	6.5	7.0	6.5	8.0	7.5	9.5	7.5
30	8.0	7.5	7.0	7.0	7.0	6.5	7.0	6.0	---	---	9.5	7.5
31	8.0	7.5	---	---	7.5	7.0	7.0	6.5	---	---	9.5	8.0
MONTH	10.5	7.5	8.5	7.0	7.5	6.0	7.5	6.0	8.5	6.5	9.5	7.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	7.5	10.5	8.5	12.0	10.5	10.0	8.5	11.0	9.5	10.0	8.5
2	9.5	7.5	10.5	8.0	11.5	10.0	10.0	9.0	10.5	9.0	10.5	8.5
3	8.5	7.5	10.5	8.5	11.5	10.0	10.5	9.0	10.0	8.5	10.5	8.5
4	8.0	7.5	10.5	8.5	10.5	9.5	10.5	9.5	10.5	8.5	10.5	8.5
5	8.5	7.5	11.0	9.0	10.5	9.5	10.5	9.5	10.5	8.5	10.0	8.5
6	8.5	7.0	11.0	9.0	10.0	9.0	10.5	9.5	10.5	9.0	10.0	8.5
7	8.5	7.0	11.5	9.5	10.5	9.0	11.0	9.5	10.5	9.0	10.0	8.5
8	8.5	7.5	10.5	9.5	11.0	9.0	11.5	9.5	10.0	8.5	10.0	8.5
9	9.0	7.5	10.5	9.5	11.0	9.0	11.5	9.5	10.0	8.5	10.0	8.5
10	9.5	7.5	11.5	9.5	11.0	9.5	11.0	9.5	10.0	8.5	10.5	8.5
11	9.5	7.5	10.5	9.5	10.5	9.5	11.5	9.5	10.5	8.5	10.0	8.5
12	9.5	7.5	11.0	9.5	10.5	9.5	11.0	9.5	10.5	8.5	9.5	8.5
13	9.5	8.0	11.0	9.5	11.0	9.5	11.0	9.5	10.5	8.5	9.5	8.5
14	9.0	8.0	11.0	9.5	11.0	9.5	11.5	9.5	10.5	9.0	9.0	8.5
15	10.0	8.0	11.5	9.5	11.0	9.5	11.5	9.5	10.5	9.0	9.5	8.0
16	10.0	8.0	11.5	9.5	11.5	10.0	11.5	9.5	10.5	9.0	9.5	8.0
17	10.0	8.0	12.0	10.0	11.5	9.5	11.5	9.5	10.5	9.0	9.5	8.0
18	10.0	8.0	12.0	10.0	11.5	9.5	11.5	9.5	10.5	8.5	9.5	8.5
19	10.0	8.0	12.0	10.5	11.0	9.0	11.0	9.5	10.5	8.5	10.0	8.5
20	8.5	8.0	12.5	10.5	10.5	9.0	11.0	9.5	10.5	9.0	10.0	8.5
21	9.5	8.0	12.5	10.5	10.5	8.5	11.5	9.5	10.5	9.0	10.0	8.5
22	9.5	8.0	12.0	10.5	10.0	8.5	11.5	9.5	10.0	8.5	10.0	8.5
23	9.5	7.5	11.5	10.0	10.0	8.5	11.5	9.5	10.0	9.0	10.0	8.5
24	9.5	8.0	11.5	10.0	10.0	9.0	11.5	9.5	10.0	9.0	10.0	8.5
25	10.0	8.0	11.0	9.5	10.0	8.5	11.0	10.0	10.5	9.0	10.0	8.5
26	10.0	8.0	11.0	9.5	10.0	8.5	11.0	10.0	10.5	9.0	10.0	8.5
27	10.5	8.0	11.5	9.5	10.5	8.5	11.0	9.5	10.5	8.5	10.0	8.5
28	10.5	8.5	11.0	9.5	10.5	8.5	11.0	9.5	10.5	9.0	10.0	8.5
29	10.0	8.0	11.5	9.5	9.5	8.5	11.5	9.5	9.5	8.5	10.0	8.5
30	10.0	8.0	11.5	10.0	10.5	8.5	11.5	9.5	10.0	8.5	10.5	8.5
31	---	---	12.0	10.0	---	---	11.5	9.5	10.0	8.5	---	---
MONTH	10.5	7.0	12.5	8.0	12.0	8.5	11.5	8.5	11.0	8.5	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 mi<sup>2</sup> (79.8 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1975 to current year.

GAGE.--Water-stage recorder. Datum or gage is 2,049.73 ft (624.758 m) National Geodetic Vertical Datum of 1929 (California State Highway Department bench mark).

REMARKS.--Records excellent. No regulation; small diversions above station for domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,080 ft<sup>3</sup>/s (58.9 m<sup>3</sup>/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 m<sup>3</sup>/s) many days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft<sup>3</sup>/s (4.25 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)	Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Oct. 25	0645	174 4.93	5.91 1.801	Feb. 28	0345	268 7.59	6.30 1.920
Jan. 13	1800	268 7.59	6.25 1.905				
Feb. 17	2030	* 1,030 29.2	7.71 2.350				

Minimum daily, 8.5 ft<sup>3</sup>/s (0.24 m<sup>3</sup>/s) Oct. 3, 4, Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	14	26	43	46	169	61	55	32	21	11	9.2
2	8.6	16	27	38	47	159	60	54	32	21	11	9.0
3	8.5	21	26	34	70	151	60	53	32	21	11	8.9
4	8.5	22	26	32	57	141	66	53	36	21	11	8.8
5	8.6	24	25	46	54	146	110	52	33	21	11	8.7
6	8.8	65	25	47	52	136	84	51	32	20	11	8.6
7	9.1	48	23	44	50	130	76	49	31	19	11	8.8
8	9.3	34	23	41	48	123	73	48	30	19	11	8.9
9	9.6	29	22	42	47	117	71	52	30	19	10	8.6
10	9.0	26	22	46	46	111	68	50	29	19	10	8.6
11	9.0	24	21	52	45	105	65	49	31	18	9.9	9.0
12	9.3	22	21	151	44	101	63	48	31	18	9.8	8.7
13	9.4	21	21	232	42	98	62	47	33	18	9.7	8.7
14	11	20	20	207	42	118	62	46	30	17	9.8	10
15	13	20	20	161	49	107	61	44	29	17	10	11
16	11	38	19	137	118	98	59	43	28	16	9.9	9.9
17	11	37	19	129	470	95	58	42	27	16	9.7	9.6
18	14	28	19	110	519	93	58	42	26	15	9.5	11
19	18	26	22	96	376	85	57	39	25	15	9.8	11
20	17	24	23	87	298	84	64	39	25	15	9.5	10
21	15	23	26	81	275	80	64	38	24	14	9.5	10
22	15	25	23	74	255	77	61	37	24	14	9.5	9.9
23	17	25	21	68	217	76	61	38	25	13	9.3	9.5
24	17	49	27	64	194	74	58	39	24	13	9.3	8.8
25	62	40	28	61	186	73	58	38	24	13	9.2	8.6
26	23	36	25	58	173	70	58	38	24	12	9.2	8.5
27	18	31	24	55	187	68	58	37	23	12	9.2	8.8
28	16	30	22	53	225	66	57	36	22	12	9.3	9.1
29	15	28	22	51	184	64	57	35	21	12	9.3	9.1
30	15	27	32	49	---	62	54	35	21	11	9.6	8.9
31	14	---	56	48	---	62	---	33	---	11	9.3	---
TOTAL	438.6	873	756	2437	4416	3139	1924	1360	834	503	308.3	278.2
MEAN	14.1	29.1	24.4	78.6	152	101	64.1	43.9	27.8	16.2	9.95	9.27
MAX	62	65	56	232	519	169	110	55	36	21	11	11
MIN	8.5	14	19	32	42	62	54	33	21	11	9.2	8.5
AC-FT	870	1730	1500	4830	8760	6230	3820	2700	1650	998	612	552
CAL YR 1979	TOTAL	11699.3	MEAN	32.1	MAX	276	MIN	7.8	AC-FT	23210		
WTR YR 1980	TOTAL	17267.1	MEAN	47.2	MAX	519	MIN	8.5	AC-FT	34250		

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

## WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: November 1975 to current year.

SEDIMENT RECORDS.--November 1975 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD. --

SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,710 mg/L Jan. 16, 1978; minimum daily mean, 0 mg/L on several days during August and September 1979.

SEDIMENT LOADS: Maximum daily, 15,900 tons (14,400 metric tons) Jan. 16, 1978; minimum daily, 0 ton (0 metric ton) on several days during August and September 1979.

EXTREMES FOR CURRENT YEAR. - -

SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,080 mg/L Feb. 17; minimum daily mean, 1 mg/L on several days during July and August.

SEDIMENT LOADS: Maximum daily, 6,320 tons (5,730 metric tons) Feb. 17; minimum daily, 0.02 ton (0.02 metric ton) Aug. 26, 27.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
ONCE-DAILY

[illegible]



11525600 GRASS VALLEY CREEK AT PAWN LODGE, NEAR LEWISTON, CA--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8.9	2	.05	14	2	.08	26	8	.56
2	8.6	2	.05	16	3	.13	27	8	.58
3	8.5	2	.05	21	5	.28	26	7	.49
4	8.5	2	.05	22	5	.30	26	7	.49
5	8.6	2	.05	24	9	.66	25	6	.41
6	8.8	2	.05	65	133	27	25	5	.34
7	9.1	2	.05	48	50	7.0	23	3	.19
8	9.3	2	.05	34	14	1.3	23	3	.19
9	9.6	2	.05	29	12	.94	22	3	.18
10	9.0	2	.05	26	11	.77	22	3	.18
11	9.0	2	.05	24	8	.52	21	3	.17
12	9.3	2	.05	22	6	.36	21	3	.17
13	9.4	2	.05	21	3	.17	21	3	.17
14	11	3	.09	20	2	.11	20	3	.16
15	13	4	.14	20	3	.16	20	2	.11
16	11	3	.09	38	31	3.6	19	2	.10
17	11	3	.09	37	14	1.4	19	2	.10
18	14	5	.20	28	6	.45	19	2	.10
19	18	7	.34	26	4	.28	22	5	.30
20	17	6	.28	24	3	.19	23	8	.50
21	15	5	.20	23	3	.19	26	8	.56
22	15	3	.12	25	4	.27	23	7	.43
23	17	3	.14	25	4	.27	21	7	.40
24	17	5	.27	49	55	7.8	27	8	.58
25	62	293	82	40	33	3.6	28	7	.53
26	23	6	.37	36	22	2.1	25	6	.41
27	18	6	.29	31	7	.59	24	5	.32
28	16	6	.26	30	5	.41	22	5	.30
29	15	5	.20	28	5	.38	22	5	.30
30	15	4	.16	27	6	.44	32	16	1.5
31	14	3	.11	---	---	---	56	55	9.0
TOTAL	438.6	---	86.00	873	---	61.75	756	---	19.82

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	43	13	1.5	46	8	.99	169	188	86
2	38	8	.82	47	12	1.5	159	144	62
3	34	5	.46	70	81	16	151	118	48
4	32	4	.35	57	21	3.2	141	115	44
5	46	13	1.6	54	14	2.0	146	144	57
6	47	11	1.4	52	10	1.4	136	147	54
7	44	10	1.2	50	8	1.1	130	119	42
8	41	8	.89	48	7	.91	123	104	35
9	42	7	.79	47	7	.89	117	94	30
10	46	16	2.0	46	6	.75	111	83	25
11	52	38	6.6	45	5	.61	105	70	20
12	151	440	184	44	5	.59	101	66	18
13	232	439	275	42	5	.57	98	63	17
14	207	271	154	42	5	.57	118	113	38
15	161	136	59	49	27	4.4	107	86	25
16	137	114	42	118	338	146	98	70	19
17	129	110	38	470	3080	6320	95	64	16
18	110	72	21	519	1270	2010	93	52	13
19	96	33	8.6	376	873	886	85	44	10
20	87	24	5.6	298	613	493	84	36	8.2
21	81	19	4.2	275	508	377	80	32	6.9
22	74	17	3.4	255	417	287	77	32	6.7
23	68	15	2.8	217	277	162	76	33	6.8
24	64	14	2.4	194	223	117	74	35	7.0
25	61	14	2.3	186	205	103	73	35	6.9
26	58	14	2.2	173	198	92	70	34	6.4
27	55	12	1.8	187	230	119	68	32	5.9
28	53	9	1.3	225	444	280	66	33	5.9
29	51	9	1.2	184	243	121	64	30	5.2
30	49	8	1.1	---	---	---	62	30	5.0
31	48	8	1.0	---	---	---	62	27	4.5
TOTAL	2437	---	828.51	4416	---	11548.48	3139	---	734.4

## KLAMATH RIVER BASIN

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	61	26	4.3	55	10	1.5	32	5	.43
2	60	24	3.9	54	11	1.6	32	5	.43
3	60	24	3.9	53	11	1.6	32	5	.43
4	66	84	17	53	12	1.7	36	6	.58
5	110	275	86	52	12	1.7	33	5	.45
6	84	64	15	51	13	1.8	32	5	.43
7	76	41	8.4	49	14	1.9	31	5	.42
8	73	38	7.5	48	15	1.9	30	4	.32
9	71	34	6.5	52	20	2.8	30	4	.32
10	68	32	5.9	50	9	1.2	29	5	.39
11	65	29	5.1	49	7	.93	31	6	.50
12	63	26	4.4	48	6	.78	31	6	.50
13	62	24	4.0	47	6	.76	33	5	.45
14	62	21	3.5	46	6	.75	30	5	.41
15	61	19	3.1	44	6	.71	29	5	.39
16	59	17	2.7	43	5	.58	28	4	.30
17	58	17	2.7	42	5	.57	27	4	.29
18	58	17	2.7	42	5	.57	26	3	.21
19	57	19	2.9	39	5	.53	25	3	.20
20	64	57	11	39	5	.53	25	3	.20
21	64	25	4.3	38	5	.51	24	3	.19
22	61	18	3.0	37	5	.50	24	3	.19
23	61	17	2.8	38	4	.41	25	3	.20
24	58	15	2.3	39	4	.42	24	3	.19
25	58	14	2.2	38	4	.41	24	3	.19
26	58	12	1.9	38	5	.51	24	3	.19
27	58	12	1.9	37	5	.50	23	3	.19
28	57	11	1.7	36	5	.49	22	3	.18
29	57	10	1.5	35	5	.47	21	4	.23
30	54	10	1.5	35	5	.47	21	4	.23
31	---	---	---	33	5	.45	---	---	---
TOTAL	1924	---	223.6	1360	---	29.55	834	---	9.63
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	21	5	.28	11	4	.12	9.2	2	.05
2	21	5	.28	11	3	.09	9.0	2	.05
3	21	6	.34	11	3	.09	8.9	2	.05
4	21	6	.34	11	2	.06	8.8	2	.05
5	21	5	.28	11	2	.06	8.7	2	.05
6	20	5	.27	11	2	.06	8.6	2	.05
7	19	4	.21	11	2	.06	8.8	2	.05
8	19	3	.15	11	2	.06	8.9	2	.05
9	19	3	.15	10	2	.05	8.6	2	.05
10	19	4	.21	10	2	.05	8.6	2	.05
11	18	5	.24	9.9	2	.05	9.0	2	.05
12	18	6	.29	9.8	2	.05	8.7	2	.05
13	18	6	.29	9.7	2	.05	8.7	2	.05
14	17	6	.28	9.8	2	.05	10	3	.08
15	17	5	.23	10	2	.05	11	4	.12
16	16	4	.17	9.9	2	.05	9.9	5	.13
17	16	3	.13	9.7	2	.05	9.6	5	.13
18	15	3	.12	9.5	2	.05	11	5	.15
19	15	3	.12	9.8	2	.05	11	5	.15
20	15	3	.12	9.5	3	.08	10	4	.11
21	14	3	.11	9.5	3	.08	10	4	.11
22	14	3	.11	9.5	3	.08	9.9	4	.11
23	13	2	.07	9.3	3	.08	9.5	3	.08
24	13	1	.04	9.3	2	.05	8.8	3	.07
25	13	1	.04	9.2	2	.05	8.6	3	.07
26	12	2	.06	9.2	1	.02	8.5	3	.07
27	12	4	.13	9.2	1	.02	8.8	3	.07
28	12	6	.19	9.3	1	.03	9.1	4	.10
29	12	6	.19	9.3	1	.03	9.1	5	.12
30	11	5	.15	9.6	1	.03	8.9	5	.12
31	11	4	.12	9.3	2	.05	---	---	---
TOTAL	503	---	5.71	308.3	---	1.75	278.2	---	2.44
YEAR	17267.1		13551.64						

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1979	438.60	86.00	16	102
NOVEMBER ...	873.00	61.75	84	146
DECEMBER ...	756.00	19.82	35	55
JANUARY 1980	2437.00	828.51	1120	1940
FEBRUARY ...	4416.00	11548.48	3980	15500
MARCH .....	3139.00	734.40	1490	2230
APRIL .....	1924.00	223.60	525	749
MAY .....	1360.00	29.55	235	265
JUNE .....	834.00	9.63	61	71
JULY .....	503.00	5.71	0	6
AUGUST .....	308.30	1.75	0	2
SEPTEMBER ..	278.20	2.44	0	2
TOTAL .....	17267.10	13551.64	7546	21068

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
OCT 25...	1030	73	12.0	255	50	34	49	59
JAN 12...	0830	139	5.0	577	217	--	22	31
FEB 17...	1100	252	7.0	743	506	4	6	9
17...	1330	318	7.0	985	846	4	6	8
17...	1530	477	7.0	2190	2820	--	7	10
20...	1100	282	6.0	467	356	5	7	10
23...	1500	212	8.0	230	132	--	--	--
29...	1050	185	7.5	195	97	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016' MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT 25...	70	77	82	86	93	99	100	--
JAN 12...	42	52	57	61	69	83	93	98
FEB 17...	12	16	20	24	35	58	85	98
17...	12	16	21	29	46	71	92	100
17...	15	20	26	37	58	82	94	99
20...	14	19	26	37	53	72	85	93
23...	--	--	28	38	52	79	94	100
29...	--	--	20	28	45	71	94	100

## KLAMATH RIVER BASIN

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JAN								
04...	1445	5.0	1	32	0	1	7	25
04...	1446	5.0	1	32	--	0	1	5
04...	1447	5.0	1	32	--	0	1	8
04...	1448	5.0	1	32	--	0	1	6
04...	1449	5.0	1	32	--	0	2	27
12...	0930	5.0	1	180	--	--	0	5
12...	0931	5.0	1	180	--	--	0	2
12...	0932	5.0	1	180	--	--	0	3
12...	0933	5.0	1	180	--	--	0	3
12...	0934	5.0	1	180	--	0	2	22
FEB								
17...	1130	7.0	1	268	1	1	2	9
17...	1131	7.0	1	268	--	0	4	18
17...	1132	7.0	1	268	--	0	2	7
17...	1133	7.0	1	268	--	--	0	1
17...	1134	7.0	1	268	1	1	3	11
29...	1125	7.5	1	185	0	2	13	28
29...	1126	7.5	1	185	--	--	0	5
29...	1127	7.5	1	185	--	--	0	3
29...	1128	7.5	1	185	--	--	0	2
29...	1129	7.5	1	185	--	--	0	2
MAR								
06...	1030	5.0	1	139	--	0	2	7
06...	1031	5.0	1	139	--	--	0	1
06...	1032	5.0	1	139	--	--	0	2
06...	1033	5.0	1	139	--	--	0	1
06...	1034	5.0	1	139	1	3	12	27
JUN								
05...	1330	10.0	1	34	0	1	4	10
05...	1331	10.0	1	34	--	0	1	3
05...	1332	10.0	1	34	--	--	0	3
05...	1333	10.0	1	34	--	--	0	3
05...	1334	10.0	1	34	0	1	3	9

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
JAN							
04...	37	52	76	96	100	--	--
04...	15	35	78	100	--	--	--
04...	25	64	96	100	--	--	--
04...	26	73	96	99	100	--	--
04...	76	99	100	--	--	--	--
12...	17	37	71	95	100	--	--
12...	13	43	82	97	100	--	--
12...	19	53	87	99	100	--	--
12...	12	35	68	90	96	100	--
12...	60	86	98	100	--	--	--
FEB							
17...	39	85	98	100	--	--	--
17...	58	89	98	100	--	--	--
17...	21	43	63	69	70	73	100
17...	8	35	75	94	100	--	--
17...	39	88	98	100	--	--	--
29...	46	64	81	97	100	--	--
29...	26	70	96	98	100	--	--
29...	20	58	93	100	--	--	--
29...	12	48	91	99	100	--	--
29...	10	45	91	100	--	--	--
MAR							
06...	22	46	63	71	75	75	100
06...	6	38	86	100	--	--	--
06...	16	52	90	100	--	--	--
06...	8	41	87	100	--	--	--
06...	41	53	70	89	100	--	--
JUN							
05...	22	68	90	100	--	--	--
05...	22	77	97	100	--	--	--
05...	30	70	94	100	--	--	--
05...	42	85	96	100	--	--	--
05...	30	86	99	100	--	--	--

## 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 mi<sup>2</sup> (391 km<sup>2</sup>).

PERIOD OF RECORD.--August 1911 to September 1913, January 1957 to current year.

REVISED RECORDS.--WSP 1565: 1912-13.

GAGE.--Water-stage recorder. Datum of gage is 1,378.8 ft (420.26 m), National Geodetic Vertical Datum of 1929. 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.--25 years, 432 ft<sup>3</sup>/s (12.23 m<sup>3</sup>/s), 313,000 acre-ft/yr (386 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft<sup>3</sup>/s (1,010 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 27.93 ft (8.513 m) from floodmarks, from rating curve extended above 9,000 ft<sup>3</sup>/s (255 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 7.5 ft<sup>3</sup>/s (0.21 m<sup>3</sup>/s) Sept. 26, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,610 ft<sup>3</sup>/s (159 m<sup>3</sup>/s) Jan. 14, gage height, 14.13 ft (4.307 m); minimum daily, 19 ft<sup>3</sup>/s (0.54 m<sup>3</sup>/s) Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	116	489	948	342	1370	320	520	228	232	76	25
2	27	150	1070	793	337	1110	304	521	220	249	66	25
3	27	290	1220	644	1000	946	297	553	177	229	61	24
4	27	393	872	546	895	813	314	610	157	211	59	23
5	27	510	698	673	741	778	398	607	151	176	58	23
6	27	658	591	808	755	733	424	558	150	181	58	22
7	28	611	518	722	657	677	399	468	147	181	55	22
8	28	447	450	623	592	627	385	447	172	157	53	22
9	28	334	396	623	533	582	458	408	210	147	50	21
10	28	266	349	678	482	546	490	341	239	127	47	24
11	29	221	309	733	441	519	463	306	244	128	44	24
12	29	190	278	4450	403	474	456	287	216	137	43	25
13	30	163	251	5020	372	498	493	295	216	134	40	24
14	32	142	226	5570	350	854	552	295	206	133	38	23
15	59	129	210	3740	340	958	494	293	187	142	37	24
16	45	908	197	2740	385	781	488	301	215	156	36	24
17	37	1060	184	2340	1090	685	564	303	272	161	35	23
18	51	701	172	1780	3100	617	591	340	290	149	34	28
19	510	506	204	1380	3260	563	613	390	302	142	33	30
20	321	396	237	1190	2410	547	787	452	300	143	32	28
21	199	327	369	983	1770	506	671	468	302	147	31	27
22	183	315	369	847	1410	478	565	390	290	144	30	26
23	290	318	380	750	1200	462	569	284	209	132	30	24
24	709	2630	440	680	1040	441	588	236	195	129	29	23
25	2290	1810	391	632	983	427	550	208	190	120	28	22
26	645	1310	353	579	1090	400	577	186	199	114	28	21
27	369	942	315	522	1740	374	600	169	185	111	28	20
28	266	725	289	474	2340	353	662	160	214	108	27	19
29	190	604	270	429	1740	348	656	159	259	109	27	19
30	159	532	373	396	---	342	565	173	237	98	26	19
31	146	---	780	363	---	333	---	201	---	85	25	---
TOTAL	6863	17704	13250	42656	31798	19142	15293	10929	6579	4612	1264	704
MEAN	221	590	427	1376	1096	617	510	353	219	149	40.8	23.5
MAX	2290	2630	1220	5570	3260	1370	787	610	302	249	76	30
MIN	27	116	172	363	337	333	297	159	147	85	25	19
AC-FT	13610	35120	26280	84610	63070	37970	30330	21680	13050	9150	2510	1400
CAL YR 1979 TOTAL	118152			324	3720	18	AC-FT	234400				
WTR YR 1980 TOTAL	170794			467	5570	19	AC-FT	338800				

## KLAMATH RIVER BASIN

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 mi<sup>2</sup> (3,727 km<sup>2</sup>).

## 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. 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 ft<sup>3</sup>/s (78.87 m<sup>3</sup>/s), 2,016,000 acre-ft/yr (2.49 km<sup>3</sup>/yr); 20 years (water years 1961-80), 1,615 ft<sup>3</sup>/s (45.74 m<sup>3</sup>/s), 1,170,000 acre-ft/yr (1.44 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,500 ft<sup>3</sup>/s (2,310 m<sup>3</sup>/s) Feb. 25, 1958, gage height, 30.50 ft (9.296 m), from rating curve extended above 40,000 ft<sup>3</sup>/s (1,130 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 43.2 ft (13.17 m); minimum, 82 ft<sup>3</sup>/s (2.32 m<sup>3</sup>/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 ft<sup>3</sup>/s (4,870 m<sup>3</sup>/s), on basis of slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,200 ft<sup>3</sup>/s (430 m<sup>3</sup>/s) Jan. 14, gage height, 13.19 ft (4.020 m); minimum daily, 386 ft<sup>3</sup>/s (10.9 m<sup>3</sup>/s) Oct. 9-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	412	730	1520	3190	1580	6880	1640	1860	1200	1040	567	577
2	402	735	1920	2790	1550	6290	1590	1830	1220	1180	703	506
3	397	952	2590	2380	2860	5910	1550	1880	1110	1190	689	409
4	394	1210	2000	2100	3010	5560	1610	2010	1050	1160	678	400
5	390	1330	1730	2160	2530	5580	2060	1990	1060	1070	597	400
6	389	1710	1570	2630	2560	5460	2200	1970	1010	1070	498	544
7	389	2080	1470	2480	2310	5240	2020	1780	1000	1090	488	558
8	387	1570	1380	2270	2160	5070	1900	1710	1020	946	484	565
9	386	1270	1290	2150	2030	4880	1920	1650	1110	823	643	499
10	386	1100	1220	2330	1920	4750	1970	1550	1190	781	650	411
11	386	996	1140	2290	1830	4670	1920	1420	1180	763	639	408
12	387	913	1070	8710	1740	4160	1880	1370	1140	795	555	413
13	396	850	1020	13700	1730	4040	1920	1360	1120	953	454	546
14	408	808	980	14300	1620	4660	2000	1370	1100	955	442	553
15	392	774	943	11000	1590	4620	1930	1370	1010	876	438	557
16	474	1740	911	7410	1780	3680	1870	1380	1030	818	592	506
17	450	3010	886	6440	4150	3020	1950	1370	1170	836	603	420
18	453	2080	864	5260	11800	2710	2020	1420	1230	792	596	426
19	1240	1610	914	4310	11900	2570	2050	1510	1220	770	528	435
20	1090	1360	984	3630	9270	2430	2320	1630	1220	926	436	430
21	975	1210	1210	3290	7160	2330	2400	1730	1200	930	431	424
22	747	1210	1310	3000	6200	2220	2040	1610	1160	839	432	423
23	944	1310	1370	2790	6640	2150	1960	1380	1040	722	576	416
24	1100	4630	1690	2620	6080	2070	2010	1260	962	704	585	412
25	4880	4630	1600	2420	5670	2020	1940	1170	948	692	581	407
26	2040	3290	1550	2290	5600	2010	1930	1110	951	829	527	397
27	1230	2500	1460	2150	6290	1860	2010	1070	927	820	422	404
28	993	2040	1360	2000	8260	1790	2100	1050	954	806	416	400
29	844	1770	1290	1880	7440	1750	2180	1040	1070	731	418	404
30	766	1620	1540	1780	---	1720	1980	1070	1070	613	576	393
31	798	---	2660	1650	---	1670	---	1140	---	577	586	---
TOTAL	24925	51038	43442	127400	129260	113770	58870	46060	32672	27097	16830	13643
MEAN	804	1701	1401	4110	4457	3670	1962	1486	1089	874	543	455
MAX	4880	4630	2660	14300	11900	6880	2400	2010	1230	1190	703	577
MIN	386	730	864	1650	1550	1670	1550	1040	927	577	416	393
AC-FT	49440	101200	86170	252700	256400	225700	116800	91360	64800	53750	33380	27060
CAL YR 1979	TOTAL	436968	MEAN	1197	MAX	6930	MIN	304	AC-FT	866700		
WTR YR 1980	TOTAL	685007	MEAN	1872	MAX	14300	MIN	386	AC-FT	1359000		

## 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.

REMARKS.--Differences between recorder values before adjustment and field measurement values exceeded  $\pm 1.0^{\circ}\text{C}$  for water temperature at times during the year.

INSTRUMENTATION.--Temperature recorder since October 1961.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded,  $27.0^{\circ}\text{C}$  Aug. 17-19, 24, 1967; minimum recorded,  $0.0^{\circ}\text{C}$  Dec. 7-11, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded,  $24.0^{\circ}\text{C}$  July 25, 26; minimum recorded,  $1.5^{\circ}\text{C}$  Jan. 30.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	14.0	10.5	9.5	6.5	6.5	6.5	6.5	8.0	6.5	8.5	8.5
2	20.0	14.5	10.5	10.0	7.5	6.5	6.5	6.5	9.0	8.0	8.5	8.5
3	19.5	15.0	10.5	10.0	9.0	7.5	6.5	6.0	10.0	9.0	8.5	8.5
4	19.5	15.0	10.5	10.0	8.5	7.5	7.0	6.0	10.0	9.5	8.5	7.5
5	19.0	15.0	10.5	10.0	8.0	7.5	7.5	7.0	9.5	8.5	8.0	7.5
6	19.0	16.5	10.0	9.5	7.5	7.0	8.0	7.0	9.0	8.5	8.0	7.5
7	18.0	14.5	9.5	9.0	7.5	7.0	7.5	7.0	8.5	7.0	8.5	8.0
8	17.0	14.5	9.0	8.5	7.5	7.0	7.5	7.0	7.5	6.0	9.0	8.0
9	17.5	14.0	8.5	7.5	7.5	7.5	7.0	6.5	8.0	6.5	9.5	8.0
10	16.5	14.0	7.5	7.0	7.5	6.0	6.5	5.0	8.0	7.5	9.5	8.0
11	16.5	13.5	7.5	7.0	6.0	3.5	6.0	5.5	8.0	6.5	9.5	8.0
12	16.5	13.5	7.0	6.5	3.5	3.0	8.5	6.0	8.0	6.0	8.0	7.5
13	16.0	15.0	7.0	6.5	3.0	2.5	9.0	8.5	7.5	5.5	8.0	7.5
14	15.5	15.0	7.0	6.0	3.0	3.0	9.0	8.5	7.5	6.5	8.0	7.5
15	16.5	15.5	7.5	6.0	3.0	3.0	8.5	8.0	9.0	7.5	7.5	6.5
16	16.5	15.5	7.5	7.5	4.0	3.0	9.5	8.5	9.0	9.0	8.5	6.0
17	16.5	15.0	8.5	7.5	6.0	4.0	9.5	8.5	9.0	9.0	7.5	7.0
18	15.5	13.5	8.5	7.0	6.5	6.0	8.5	6.0	9.0	8.5	9.5	6.5
19	13.5	11.5	7.0	6.0	7.0	6.5	6.0	5.0	9.0	9.0	10.0	6.5
20	11.5	11.0	6.0	5.5	7.0	7.0	6.0	5.0	9.0	9.0	9.0	8.0
21	11.5	10.0	5.5	5.0	7.0	7.0	6.5	6.0	9.0	8.5	9.0	7.0
22	11.5	11.5	6.5	5.5	7.0	5.0	7.5	6.5	8.5	8.5	11.5	7.0
23	11.5	11.0	5.5	4.5	5.0	4.5	7.5	7.0	9.0	8.0	11.5	7.5
24	11.0	11.0	6.5	5.5	4.5	4.0	7.5	7.5	9.5	8.5	11.0	7.0
25	11.0	11.0	6.5	6.5	5.0	4.0	7.5	7.0	9.5	9.5	11.0	7.0
26	11.0	10.5	6.5	5.5	5.0	5.0	7.5	6.0	10.5	9.5	10.0	8.5
27	11.0	10.5	5.5	4.5	5.0	5.0	6.5	5.5	10.5	10.0	11.5	7.0
28	11.0	8.5	6.0	4.5	5.0	4.0	5.5	4.5	10.0	9.0	12.5	7.0
29	10.5	9.0	6.5	5.5	6.0	5.0	4.5	3.5	9.0	8.5	12.0	7.5
30	10.0	8.5	7.0	6.5	6.0	6.0	4.0	1.5	---	---	12.0	7.5
31	10.5	9.5	---	---	6.5	6.0	6.5	3.5	---	---	9.5	7.0
MONTH	20.0	8.5	10.5	4.5	9.0	2.5	9.5	1.5	10.5	5.5	12.5	6.0

[illegible]



## 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 mi<sup>2</sup> (1,979 km<sup>2</sup>).

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.--15 years, 1,448 ft<sup>3</sup>/s (41.01 m<sup>3</sup>/s), 1,049,000 acre-ft/yr (1.29 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,300 ft<sup>3</sup>/s (1,960 m<sup>3</sup>/s) Jan. 16, 1974, gage height, 26.68 ft (8.132 m), from rating curve extended above 23,000 ft<sup>3</sup>/s (651 m<sup>3</sup>/s) on basis of flood-routing study at gage height 30.45 ft (9.281 m); minimum daily, 14 ft<sup>3</sup>/s (0.40 m<sup>3</sup>/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 ft<sup>3</sup>/s (2,490 m<sup>3</sup>/s), on basis of flood-routing study.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,600 ft<sup>3</sup>/s (244 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Jan. 13	0230	*28000 793	18.13 5.526
Feb. 19	0945	14400 408	13.58 4.139

Minimum daily discharge, 44 ft<sup>3</sup>/s (1.25 m<sup>3</sup>/s) Oct. 6-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	350	1290	4950	1550	4950	1490	1160	527	269	100	62
2	46	373	1230	3670	1530	4430	1430	1130	510	261	98	62
3	46	604	1140	3000	3470	4090	1350	1150	502	261	97	61
4	46	771	1040	2510	3310	3810	1510	1150	500	259	96	61
5	45	766	975	2830	2710	4130	2550	1120	544	251	94	60
6	44	1510	926	3310	2530	4310	2780	1080	512	248	93	59
7	44	2490	883	3070	2270	3920	2500	1050	486	241	91	59
8	44	1560	836	2800	2090	3640	2300	1020	471	231	87	58
9	44	1120	802	2770	1950	3410	2420	1090	456	224	85	57
10	44	862	780	3380	1830	3220	2420	1180	435	219	84	58
11	44	737	737	3230	1730	3080	2200	1070	424	212	82	57
12	44	639	703	19300	1650	2880	2020	1040	414	203	79	57
13	45	561	679	25800	1580	2880	1860	1030	451	200	78	57
14	53	512	661	18800	1540	4820	1830	970	470	189	75	57
15	67	478	645	11800	1510	5140	1730	918	442	186	75	58
16	79	1710	626	7860	1550	4230	1590	875	417	176	75	60
17	79	3670	610	6230	3170	3810	1520	838	392	170	73	60
18	88	2150	600	4990	11500	3540	1470	807	378	164	70	60
19	238	1500	686	4150	13400	3240	1420	759	362	158	72	59
20	378	1210	824	3620	9420	3080	1500	745	353	155	72	58
21	398	1040	1060	3280	6860	2940	1710	723	350	147	70	58
22	322	1310	1190	3010	5650	2720	1610	689	333	141	68	57
23	401	2480	1180	2850	5080	2520	1530	685	333	136	67	57
24	524	3740	1220	2650	4490	2330	1490	679	333	132	66	56
25	3200	3700	1280	2460	4330	2200	1430	669	333	128	64	56
26	1560	3080	1290	2250	4080	2050	1400	653	326	124	62	56
27	856	2350	1220	2090	4740	1900	1360	626	316	119	62	56
28	649	1910	1150	1940	6880	1800	1320	608	301	115	62	55
29	526	1630	1110	1800	5830	1720	1260	580	288	109	62	56
30	460	1430	1980	1640	---	1620	1190	569	272	106	62	56
31	405	---	5510	1610	---	1540	---	550	---	103	62	---
TOTAL	10866	46243	34863	163650	118230	99950	52190	27213	12231	5637	2383	1743
MEAN	351	1541	1125	5279	4077	3224	1740	878	408	182	76.9	58.1
MAX	3200	3740	5510	25800	13400	5140	2780	1180	544	269	100	62
MIN	44	350	600	1610	1510	1540	1190	550	272	103	62	55
AC-FT	21550	91720	69150	324600	234500	198300	103500	53980	24260	11180	4730	3460
CAL YR 1979	TOTAL	305621	MEAN	837	MAX	5710	MIN 39	AC-FT	606200			
WTR YR 1980	TOTAL	575199	MEAN	1572	MAX	25800	MIN 44	AC-FT	1141000			

## KLAMATH RIVER BASIN

## 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 mi<sup>2</sup> (7,389 km<sup>2</sup>).

## 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).--53 years (water years 1912-13, 1917-18, 1932-80), 5,269 ft<sup>3</sup>/s (149.2 m<sup>3</sup>/s), 3,817,000 acre-ft/yr (4.71 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 231,000 ft<sup>3</sup>/s (6,540 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 57.0 ft (17.37 m) present site and datum, from floodmarks; minimum, 162 ft<sup>3</sup>/s (4.59 m<sup>3</sup>/s) Oct. 4, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 22,000 ft<sup>3</sup>/s (623 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft <sup>3</sup> /s)	Discharge (m <sup>3</sup> /s)	Gage height (ft)	Gage height (m)
Nov. 24	1930	27900	790	25.66	7.821	Feb. 19	unknown	42000	1190	unknown	
Jan. 13	0545	*63800	1810	33.63	10.250	Feb. 28	1145	22600	640	24.17	7.367

Minimum daily discharge, 578 ft<sup>3</sup> (16.4 m<sup>3</sup>/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	623	1840	4980	15000	4950	17200	4850	4240	2320	1650	868	763
2	611	1780	5390	11300	4860	15500	4700	4100	2310	1700	923	755
3	601	2430	6990	8990	8640	14200	4570	4060	2240	1760	963	633
4	596	3420	5660	7340	10400	13400	4660	4150	2190	1730	952	601
5	591	3810	4920	7680	8090	13600	6020	4120	2270	1660	935	591
6	586	4400	4440	9750	7770	13900	7600	4050	2180	1610	807	638
7	586	7730	4110	8890	6930	12900	7040	3810	2120	1620	779	727
8	586	5420	3830	7720	6380	12100	6320	3640	2070	1560	763	739
9	586	4030	3560	7290	5990	11500	6670	3750	2100	1380	821	726
10	586	3260	3360	8980	5690	10900	6980	3850	2150	1320	896	631
11	586	2790	3160	8450	5450	10600	6510	3470	2160	1270	881	596
12	586	2480	2980	36800	5260	9850	6100	3300	2120	1260	865	591
13	597	2270	2840	60400	5090	10200	5940	3210	2150	1350	737	645
14	675	2130	2710	57400	4870	16900	5950	3170	2150	1400	700	726
15	891	2020	2600	46500	4760	17700	5780	3110	2030	1370	683	738
16	781	3310	2500	33000	4790	12700	5420	3050	1950	1250	741	745
17	745	9670	2410	26700	7210	10900	5340	2980	2010	1250	823	635
18	753	7100	2340	20400	38000	10100	5330	2970	2070	1220	819	617
19	1880	5280	2570	15600	40000	9150	5260	3030	2040	1170	811	643
20	2550	4330	3030	12600	31700	8560	5670	3100	2000	1230	689	646
21	2430	3730	3830	10700	23700	8200	6240	3190	1980	1290	657	641
22	1770	4040	4410	9470	18900	7660	5440	3080	1920	1250	646	640
23	1890	6880	4670	8500	17300	7220	5120	2890	1860	1100	704	632
24	2170	18700	5890	7820	15100	6770	5020	2730	1740	1050	778	613
25	12300	18200	5660	7310	13800	6500	4840	2610	1710	1030	775	606
26	7060	12400	5440	6840	13100	6200	4710	2490	1680	1080	768	592
27	3560	9380	5020	6390	14200	5710	4730	2400	1650	1120	657	579
28	2630	7480	4610	5970	21400	5380	4740	2340	1610	1100	619	580
29	2180	6300	4340	5650	19400	5220	4770	2280	1670	1080	617	578
30	1990	6300	5010	5300	---	5070	4500	2260	1700	955	678	580
31	1990	---	12500	5130	---	4950	---	2290	---	905	766	---
TOTAL	55966	172910	135760	489870	373730	320740	166820	99720	60150	40720	24121	19427
MEAN	1805	5764	4379	15800	12890	10350	5561	3217	2005	1314	778	648
MAX	12300	18700	12500	60400	40000	17700	7600	4240	2320	1760	963	763
MIN	586	1780	2340	5130	4760	4950	4500	2260	1610	905	617	578
AC-FT	111000	343000	269300	971700	741300	636200	330900	197800	119300	80770	47840	38530
CAL YR 1979	TOTAL	1163297	MEAN	3187	MAX	18700	MIN	567	AC-FT	2307000		
WTR YR 1980	TOTAL	1959934	MEAN	5355	MAX	60400	MIN	578	AC-FT	3888000		

## 11530000 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.  
 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.

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.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 26.5°C July 26-27; minimum recorded, 3.5°C Jan. 30-31.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT 01...	0935	624	186	7.8	18.0	.00	10.1	77	--	--	4.0	--
NOV 05...	1005	3800	158	7.7	11.0	8.0	10.7	74	18	7.0	4.0	--
DEC 04...	1000	5640	--	7.7	8.5	7.0	11.7	--	--	--	--	--
JAN 08...	1020	8010	--	7.7	8.0	15	11.6	--	--	--	--	--
FEB 04...	1030	11000	--	7.9	9.0	55	11.5	--	--	--	--	--
MAR 03...	0935	14400	--	--	--	--	--	--	--	--	--	--
APR 07...	0955	7110	--	--	--	--	--	--	--	--	--	--
MAY 05...	0945	4050	137	7.7	15.0	4.0	10.2	65	16	6.0	3.0	9
JUN 03...	0900	--	--	7.9	15.0	1.0	10.2	--	--	--	--	--
JUL 08...	1050	--	--	8.1	21.5	1.0	9.5	--	--	--	--	--
AUG 20...	0735	--	--	7.8	--	1.0	8.5	--	--	--	--	--
SEP 15...	1205	730	168	7.9	18.0	1.0	10.0	71	17	7.0	4.0	11
DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	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, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, OSPHATE TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL. (MG/L AS P)
OCT 01...	.2	--	5.0	--	--	--	--	.00	.02	.30	.01	.00
NOV 05...	.2	--	3.0	--	--	--	--	--	--	--	--	--
DEC 04...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 08...	--	--	--	--	--	--	--	.03	.01	.10	.04	.00
FEB 04...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 03...	--	--	--	--	--	--	--	--	--	--	--	--
APR 07...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 05...	.2	.6	2.0	--	--	--	--	.01	.02	.30	.02	.00
JUN 03...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	.02	.01	.20	.01	.00
AUG 20...	--	--	--	--	--	--	--	.02	--	.10	.01	--
SEP 15...	.2	.8	4.0	92	.13	181	.02	.01	.03	1.0	.02	.00

## KLAMATH RIVER BASIN

11530000 TRINITY RIVER AT HOOPA, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	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)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 01...	0	0	100	0	0	0	50	0	0	.0	0	--
NOV 05...	--	--	0	--	--	--	--	--	--	--	--	2.5
DEC 04...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 08...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 04...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 03...	--	--	--	--	--	--	--	--	--	--	--	--
APR 07...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 05...	0	0	0	0	0	0	10	0	10	.0	0	1.1
JUN 03...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 20...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 15...	0	0	0	0	0	10	10	0	0	.0	10	1.4

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	16.5	11.5	11.0	8.5	8.0	8.0	7.0	6.5	4.5	9.5	9.0
2	19.5	17.0	12.0	11.0	8.5	8.0	8.0	7.5	7.5	6.5	9.5	9.0
3	19.5	17.0	11.5	11.0	9.0	8.5	7.5	7.0	8.0	7.5	9.5	9.0
4	20.0	17.0	11.0	10.5	9.0	8.0	7.5	7.0	9.0	8.0	9.0	8.5
5	20.0	17.0	11.0	10.5	9.5	8.5	8.5	7.5	8.5	8.0	8.5	8.0
6	19.5	17.5	11.0	9.5	9.0	8.0	8.5	8.0	9.0	8.0	8.5	7.5
7	18.0	16.5	11.0	9.0	8.5	8.0	8.5	8.0	8.0	7.0	9.0	8.0
8	19.0	16.0	11.0	9.0	9.0	8.0	8.0	7.5	7.5	6.5	9.0	8.0
9	19.0	17.0	10.0	8.5	9.0	8.0	7.5	7.5	7.5	6.5	9.5	8.0
10	18.5	16.0	10.0	8.0	9.0	8.0	7.5	6.5	8.0	7.0	9.5	8.0
11	17.5	16.0	10.0	7.5	8.0	6.5	6.5	6.0	8.0	7.0	9.5	8.5
12	18.0	15.5	9.5	8.0	6.5	6.0	8.5	6.5	8.0	7.0	8.5	8.0
13	17.5	16.0	9.5	7.0	6.0	5.0	9.0	8.5	7.5	7.0	8.5	7.5
14	17.0	16.0	9.0	6.5	6.0	5.0	9.0	9.0	7.5	6.5	8.5	8.0
15	17.5	15.5	9.0	8.0	5.5	5.0	9.0	8.5	8.5	7.5	8.0	7.5
16	18.0	16.0	9.5	8.0	5.5	5.0	9.0	9.0	9.5	8.5	8.0	7.0
17	17.5	16.0	10.0	8.0	6.5	5.0	9.5	9.0	9.5	9.0	8.0	7.5
18	16.5	14.5	9.5	8.0	7.0	6.0	9.0	7.0	9.0	9.0	9.0	7.5
19	14.5	13.0	9.0	7.5	8.0	7.0	7.0	6.0	9.0	9.0	9.0	7.5
20	13.0	12.0	8.0	6.5	8.5	8.0	6.5	6.0	9.0	8.5	9.0	8.0
21	13.0	11.5	7.5	7.0	8.5	8.0	6.5	6.0	9.0	8.5	9.5	7.5
22	12.0	11.5	7.5	6.5	8.0	7.0	7.0	6.0	9.0	8.5	9.5	7.5
23	12.5	11.5	7.5	6.0	7.0	6.0	7.0	6.5	9.0	8.0	10.0	8.5
24	12.5	12.0	9.0	6.5	6.0	5.5	7.5	6.5	9.5	8.5	9.5	8.0
25	12.5	11.5	9.0	8.0	6.5	5.5	7.5	7.0	9.5	9.0	9.5	8.0
26	12.5	11.5	8.0	7.0	7.0	6.5	6.5	6.0	10.5	9.5	9.5	9.0
27	12.0	11.5	7.5	6.5	6.5	6.5	6.0	5.5	10.5	10.0	10.0	8.0
28	12.5	11.5	7.0	6.0	6.5	6.0	5.5	5.0	10.0	9.5	10.0	8.0
29	12.0	10.5	8.0	6.0	7.0	6.0	4.5	4.0	9.5	9.0	10.5	9.0
30	11.5	10.5	8.5	7.5	7.5	6.5	4.0	3.5	---	---	10.5	9.0
31	12.0	10.5	---	---	7.5	7.0	5.0	3.5	---	---	9.5	8.0
MONTH	20.0	10.5	12.0	6.0	9.5	5.0	9.5	3.5	10.5	4.5	10.5	7.0

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

[illegible]

## 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 mi<sup>2</sup> (31,340 km<sup>2</sup>), 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.--46 years, 17,400 ft<sup>3</sup>/s (492.8 m<sup>3</sup>/s), 12,610,000 acre-ft/yr (15.5 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 557,000 ft<sup>3</sup>/s (15,800 m<sup>3</sup>/s) Dec. 23, 1964, gage height, 55.3 ft (16.86 m) former datum, from floodmarks, from rating curve extended above 230,000 ft<sup>3</sup>/s (6,510 m<sup>3</sup>/s) on basis of flood-routing study; minimum daily, 1,310 ft<sup>3</sup>/s (37.1 m<sup>3</sup>/s) Sept. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 90,000 ft<sup>3</sup>/s (2,550 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)	Gage height (ft) (m)
Nov. 24	2015	101000 2860	20.35 6.203
Jan. 14	0015	*234000 6630	28.08 8.559

Minimum daily discharge, 3,330 ft<sup>3</sup>/s (94.3 m<sup>3</sup>/s) Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3460	9590	19000	39800	24000	55400	22200	21800	10900	6930	4460	4210
2	3480	8850	23800	36400	23800	49200	21300	21500	11100	6810	4370	4140
3	3490	9480	47500	31000	36800	45800	20800	21500	10700	6870	4700	4400
4	3420	12800	36300	26900	45000	44200	20900	22300	10200	6810	4720	4310
5	3410	17900	28800	26700	38000	42000	23600	22600	10100	6580	4700	4330
6	3400	18300	24800	31700	36700	41900	28400	22100	10100	6320	4620	4320
7	3420	21500	22000	31000	34700	38900	27900	21300	9800	6290	4490	4280
8	3420	18900	19800	27900	32300	36300	25500	20000	9550	6220	4460	4290
9	3380	14700	18100	26400	31000	34100	26600	18800	9550	6200	4430	4400
10	3380	12500	16900	29600	29300	32400	28600	18800	9760	6110	4610	4430
11	3360	11100	16200	28600	27900	31700	26600	16900	9760	6190	4600	4300
12	3330	10100	14800	90400	26800	30900	25100	16000	9550	5980	4510	4300
13	3340	9360	13900	212000	25400	36200	25100	15700	9620	5990	4470	4310
14	3590	8740	13200	225000	23700	70700	26200	15400	9650	6060	4280	4540
15	4020	8350	12600	160000	22800	68300	26200	15300	9440	5960	4200	4560
16	4350	9410	12100	113000	22200	53000	24800	15100	9170	5820	4130	4540
17	4070	20900	11400	90000	23700	45500	24400	15100	8600	5770	4300	4470
18	4050	24300	11100	71000	46900	42200	24600	14700	8930	5700	4270	4330
19	5570	20600	12400	58500	82300	39300	24400	14700	8930	5440	4310	4280
20	6440	17100	14700	50500	72000	37400	26900	14900	8790	5310	4260	4360
21	8440	15000	20100	44500	65000	36900	29500	15500	8620	5540	4140	4420
22	8790	15900	22300	39000	56300	34400	26500	15700	8390	5520	4110	4350
23	9970	28300	21200	36000	52500	32600	24600	15000	8160	5290	4090	4300
24	10600	69600	26500	33800	47100	31200	24600	13700	7970	5070	4200	4240
25	51000	71000	25000	31300	44400	30000	23700	12800	7910	4910	4300	4280
26	32700	47300	22800	29100	45600	28600	23000	12300	7500	4800	4290	4350
27	17700	35600	20800	27800	46700	26600	22600	11800	7140	4820	4130	4340
28	13500	28300	19100	26200	65300	25100	23300	11400	6900	4750	4040	4240
29	11300	23800	17500	25000	64100	23900	23700	11000	6930	4700	4080	4250
30	9870	21000	17900	23900	---	23300	22900	10800	7080	4620	4040	4220
31	9910	---	26900	23000	---	22800	---	10800	---	4560	4170	---
TOTAL	260160	640280	629500	1746000	1192300	1190800	744500	505300	270800	177940	134480	130090
MEAN	8392	21340	20310	56320	41110	38410	24820	16300	9027	5740	4338	4336
MAX	51000	71000	47500	225000	82300	70700	29500	22600	11100	6930	4720	4560
MIN	3330	8350	11100	23000	22200	22800	20800	10800	6900	4560	4040	4140
AC-FT	516000	1270000	1249000	3463000	2365000	2362000	1477000	1002000	537100	352900	266700	258000
CAL YR 1979 TOTAL	5042320			MEAN 13810	MAX 71000	MIN 3010	AC-FT 10000000					
WTR YR 1980 TOTAL	7622150			MEAN 20830	MAX 225000	MIN 3330	AC-FT 15120000					

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 November 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, 24.5°C July 27-30, minimum recorded, 5.0°C Dec. 25-29.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 25...	1300	46600	112	7.5	13.5	73	9.9	--	640	K400
NOV 20...	1625	16000	141	7.8	9.0	12	11.6	--	26	K27
DEC 18...	1215	11000	160	7.5	7.0	4.1	11.9	--	K4	K5
JAN 23...	1500	39500	142	7.5	8.0	60	12.1	--	K13	K9
FEB 21...	1630	63300	128	7.6	9.0	74	11.5	--	K26	K31
MAR 25...	1430	29500	148	7.8	9.5	27	11.6	--	K3	K2
APR 23...	1345	24400	134	7.8	12.5	16	10.9	101	12	K3
MAY 19...	1415	14400	137	7.8	16.5	5.8	10.0	102	K1	K1
JUN 24...	1345	7970	150	7.7	17.0	2.8	9.4	97	K7	K6
JUL 23...	1415	5210	168	8.1	22.0	.90	8.7	99	K6	K6
AUG 25...	1440	4220	187	7.9	20.0	3.8	9.7	105	K4	K4
SEP 26...	1300	4350	189	7.6	18.0	1.8	9.0	94	K2	28

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	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)
OCT 25...	47	5	11	4.7	4.2	16	.3	1.0	42	8.6
NOV 20...	66	0	15	6.9	5.5	24	.3	.8	66	8.6
DEC 18...	69	2	16	7.1	5.8	24	.3	.8	67	7.7
JAN 23...	61	0	14	6.2	5.1	15	.3	.9	59	6.7
FEB 21...	58	6	13	6.1	3.7	12	.2	.8	52	3.8
MAR 25...	65	0	15	6.6	5.4	15	.3	.8	65	8.1
APR 23...	58	4	13	6.1	4.5	14	.3	.9	54	8.9
MAY 19...	61	4	14	6.2	5.0	15	.3	1.0	57	7.9
JUN 24...	63	2	15	6.3	4.6	13	.3	.9	61	5.7
JUL 23...	72	7	17	7.2	6.3	16	.3	1.1	66	8.1
AUG 25...	79	6	18	8.2	9.4	20	.5	1.3	73	12
SEP 26...	72	0	16	7.7	8.7	20	.4	1.6	80	9.3

x 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 1979 TO SEPTEMBER 1980

	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 CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+N03 TOTAL (MG/L AS N)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	
OCT 25...	3.1	.1	13	75	72	.10	9440	.26	.25	
NOV 20...	3.1	.1	17	109	97	.15	4710	.16	.15	
DEC 18...	3.2	.0	18	98	100	.13	2910	.19	.20	
JAN 23...	2.4	.1	17	85	96	.12	9070	.21	.18	
FEB 21...	1.7	.1	15	84	76	.11	14400	.18	.15	
MAR 25...	2.5	.0	16	100	94	.14	7970	.11	.10	
APR 23...	2.5	.1	14	93	83	.13	6130	.03	.05	
MAY 19...	1.9	.1	15	78	85	.11	3030	.03	.02	
JUN 24...	1.4	.1	14	91	85	.12	1960	.01	.02	
JUL 23...	3.2	.2	14	103	96	.14	1450	.00	.00	
AUG 25...	4.5	.1	15	118	113	.16	1340	.00	.00	
SEP 26...	5.0	.1	19	--	116	.19	1670	.00	.00	
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	
OCT 25...	.09	.01	1.7	.33	1.8	.34	2.1	.33	.04	
NOV 20...	.00	.00	.35	.31	.35	.31	.51	.06	.04	
DEC 18...	.00	.03	1.0	.97	1.0	1.0	1.2	.03	.04	
JAN 23...	.06	.01	.51	.38	.57	.39	.78	.16	.06	
FEB 21...	.03	.01	.17	.04	.20	.05	.38	.23	.02	
MAR 25...	.00	.00	.33	.27	.33	.27	.44	.05	.04	
APR 23...	.00	.00	.31	.26	.31	.26	.34	.05	.02	
MAY 19...	.02	.02	1.1	.44	1.1	.46	1.1	.05	.02	
JUN 24...	.04	.09	.59	.26	.63	.35	.64	.05	.04	
JUL 23...	.00	.01	1.0	.64	1.0	.65	1.0	.03	.04	
AUG 25...	.00	.01	.48	.28	.48	.29	.48	.07	.06	
SEP 26...	.00	.00	.37	.29	.37	.29	.37	.09	.08	
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)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
NOV 20...	1625	--	--	--	--	--	--	--	--	--
DEC 18...	1215	1	1	400	20	0	<1	20	0	0
FEB 21...	1630	--	--	--	--	--	--	--	--	--
MAR 25...	1430	3	1	100	30	0	1	30	0	4
MAY 19...	1415	--	--	--	--	--	--	--	--	--
JUN 24...	1345	1	1	0	20	0	<1	20	0	0
AUG 25...	1440	--	--	--	--	--	--	--	--	--
SEP 26...	1300	3	5	100	20	0	<1	20	0	0



11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued  
 WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
NOV 20...	--	--	--	--	--	--	--	--	--	--
DEC 18...	<3	6	0	400	30	8	2	10	2	.0
FEB 21...	--	--	--	--	--	--	--	--	--	--
MAR 25...	<3	9	3	3400	10	3	0	80	4	.2
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUN 24...	<3	8	3	450	10	2	2	20	2	.0
AUG 25...	--	--	--	--	--	--	--	--	--	--
SEP 26...	<3	5	2	90	10	2	0	20	<1	.0

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	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 20...	--	--	--	--	--	0	--	--	--
DEC 18...	.0	7	3	0	0	0	0	10	10
FEB 21...	--	--	--	--	--	0	--	--	--
MAR 25...	.0	26	4	0	0	0	0	30	<3
MAY 19...	--	--	--	--	--	0	--	--	--
JUN 24...	.0	7	3	0	0	0	0	30	<3
AUG 25...	--	--	--	--	--	0	--	--	--
SEP 26...	.0	8	3	0	0	0	0	10	<3

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)	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)	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 25...	1300	11	--	--	--	--	--	--	--	--	--	--
NOV 20...	1625	4.9	--	--	ND	ND	ND	ND	ND	ND	ND	ND
DEC 18...	1215	--	3.8	.4	--	--	--	--	--	--	--	--
JAN 23...	1500	3.4	--	--	--	--	--	--	--	--	--	--
FEB 21...	1545	--	--	--	--	--	ND	--	ND	--	ND	--
FEB 21...	1630	4.4	--	--	--	--	--	--	--	--	--	--
MAR 25...	1430	--	4.0	.5	--	--	--	--	--	--	--	--
APR 23...	1345	2.8	--	--	--	--	--	--	--	--	--	--
MAY 19...	1415	2.3	--	--	--	--	--	--	--	--	--	--
JUN 24...	1345	--	17	.4	--	--	--	--	--	--	--	--
JUL 23...	1415	3.4	--	--	--	--	--	--	--	--	--	--
AUG 25...	1440	4.8	--	--	--	--	--	--	--	--	--	--
SEP 26...	1300	--	3.9	.3	--	--	--	--	--	--	--	--

ND Material specifically analyzed for but not detected.

## KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	DDE, TOTAL IN BOT- TOM MA- TERIAL	DDT, TOTAL IN BOT- TOM MA- TERIAL	DDT, TOTAL IN BOT- TOM MA- TERIAL	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL	ETHION, TOTAL IN BOT- TOM MA- TERIAL
DATE	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)	(UG/KG)	(UG/L)
OCT 25...	--	--	--	--	--	--	--
NOV 20...	ND	ND	ND	ND	ND	ND	ND
DEC 18...	--	--	--	--	--	--	--
JAN 23...	--	--	--	--	--	--	--
FEB 21...	ND	--	ND	--	ND	--	ND
MAR 21...	--	--	--	--	--	--	--
APR 25...	--	--	--	--	--	--	--
MAY 23...	--	--	--	--	--	--	--
JUN 19...	--	--	--	--	--	--	--
JUL 24...	--	--	--	--	--	--	--
AUG 23...	--	--	--	--	--	--	--
SEP 25...	--	--	--	--	--	--	--
SEP 26...	--	--	--	--	--	--	--

[illegible][illegible]

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

## QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE TIME	NOV 20,79 1625	MAR 25,80 1430	MAY 19,80 1415	JUN 24,80 1345
TOTAL CELLS/ML	71	25	1600	390
DIVERSITY: DIVISION	0.4	0.7	1.2	1.2
..CLASS	0.4	0.7	1.2	1.2
...ORDER	0.4	0.7	1.7	1.9
...FAMILY	2.2	0.7	2.2	2.7
...GENUS	2.4	0.7	2.8	2.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	39	2	--	-
....MICRACTINIUM	--	-	--	-	230	15	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	13	3
....CHLORELLA	5	7	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	13	1	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	310#	20	--	-
....SCENEDESMUS	--	-	20#	80	--	-	52	13
...TETRASTRUM	--	-	--	-	51	3	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	64	4	--	-
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	--	-	500#	32	26	7
....MELOSIRA	--	-	--	-	--	-	120#	30
...STEPHANODISCUS	--	-	--	-	190	12	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	10	14	5#	20	--	-	13	3
...COCCONEIS	5	7	--	-	--	-	--	-
...RHOICOSPHENIA	--	-	--	-	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	5	7	--	-	--	-	--	-
....EPITHEMIA	--	-	--	-	--	-	13	3
...FRAGILARIACEAE								
....SYNEDRA	--	-	--	-	--	-	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	5	7	--	-	--	-	13	3
...NAVICULACEAE								
....NAVICULA	10	14	--	-	90	6	39	10
...NITZSCHACEAE								
....NITZSCHIA	30#	43	--	-	26	2	52	13
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	51	3	52	13
...HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
...OSCILLATORIA								
....OSCILLATORIA	--	-	--	-	--	-	--	-
...RIVULARIACEAE								
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-

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

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

## KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE TIME	JUL 23,80 1415	AUG 25,80 1440	SEP 26,80 1300
TOTAL CELLS/ML	1600	7700	460
DIVERSITY: DIVISION	1.3	0.7	1.2
..CLASS	1.3	0.7	1.2
...ORDER	1.6	1.6	1.2
...FAMILY	2.0	1.8	2.8
....GENUS	2.3	1.8	2.8

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....MICRACTINIACEAE						
.....GOLENKINIA	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	39	2	* 0		--	-
....CHLORELLA	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	51	1	--	-
....SELENASTRUM	39	2	* 0		--	-
...SCENEDESMACEAE						
....ACTINASTRUM	--	-	--	-	--	-
....SCENEDESMUS	800#	52	640	8	77#	17
....TETRASTRUM	52	3	51	1	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	13	1	* 0		--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
....COSCINODISCACEAE						
.....CYCLOTELLA	39	2	* 0		--	-
....MELOSIRA	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-
...PENNALES						
....ACHNANTHACEAE						
.....ACHNANTHES	--	-	--	-	--	-
....COCCONEIS	26	2	--	-	--	-
....RHOICOSPHEINIA	--	-	--	-	13	3
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
....EPITHEMIA	13	1	64	1	52	11
...FRAGILARIACEAE						
....SYNEDRA	26	2	130	2	140#	31
...GOMPHONEMACEAE						
....GOMPHONEMA	13	1	* 0		39	8
...NAVICULACEAE						
....NAVICULA	--	-	--	-	39	8
...NITZSCHACEAE						
....NITZSCHIA	13	1	64	1	52	11
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
.....AGMENELLUM	78	5	--	-	--	-
....ANACYSTIS	13	1	3600#	47	13	3
...HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	--	-	51	1	--	-
...OSCILLATORIA						
....OSCILLATORIA	--	-	3000#	39	--	-
...RIVULARIACEAE						
....RAPIDIOPSIS	390#	25	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
....EUGLENACEAE						
.....EUGLENA	--	-	--	-	39	8

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 1979 TO SEPTEMBER 1980

## 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 SAMPLING CHLORO- PHYLL RATIO PERI- PHYTON (UNITS)	METHOD
APR 23...	1345	29	18.1	17.1	3.36	.190	298	POLYETHYLENE STRIP
JUN 24...	1345	25	68.8	63.6	10.3	2.12	505	POLYETHYLENE STRIP
JUL 23...	1415	29	8.98	6.61	4.32	1.26	549	POLYETHYLENE STRIP
SEP 26...	1300	30	12.1	7.64	17.3	3.97	258	POLYETHYLENE STRIP

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	157	145	128	156	131	151	130	143	---	175	184
2	196	159	146	135	147	129	150	137	141	152	177	183
3	---	157	111	140	126	139	---	135	142	130	181	185
4	199	---	124	140	132	143	---	134	141	148	185	189
5	198	134	130	138	134	143	144	127	143	154	185	184
6	202	134	133	131	133	144	137	126	144	157	183	184
7	202	136	136	133	138	144	140	125	147	153	182	184
8	203	140	143	139	135	142	143	129	---	159	185	181
9	203	140	143	136	---	142	138	127	152	159	186	182
10	198	---	146	137	142	142	134	130	151	163	184	177
11	198	150	148	139	147	143	137	---	148	163	186	181
12	202	157	151	---	150	147	143	138	146	164	187	181
13	---	159	156	---	150	130	---	139	144	164	189	---
14	193	157	156	95	150	101	136	144	146	166	186	178
15	193	163	156	109	150	118	135	142	148	164	190	177
16	191	163	156	115	150	127	137	141	152	166	189	185
17	191	139	157	118	148	132	135	141	154	165	188	181
18	194	139	156	128	149	135	134	146	154	166	190	174
19	172	144	152	131	127	142	134	138	146	168	186	180
20	160	149	148	137	107	139	129	137	144	168	188	181
21	153	---	135	139	128	146	121	134	147	169	189	180
22	163	---	---	142	134	147	121	132	139	168	189	178
23	170	---	125	134	136	150	134	131	148	166	191	178
24	153	102	128	142	136	149	141	129	146	171	188	181
25	112	102	136	147	139	150	131	---	150	171	187	180
26	126	120	144	147	139	150	138	138	152	170	178	187
27	144	120	151	---	138	155	139	141	153	174	175	186
28	145	134	151	154	118	152	135	143	152	175	186	189
29	151	136	156	152	126	152	126	148	153	173	---	187
30	159	144	153	150	---	152	128	148	154	170	185	190
31	157	---	147	149	---	155	---	145	---	173	186	---
MONTH	176	141	144	135	138	141	136	136	148	164	185	182
YEAR	MAX	203	MIN	95	MEAN	153						

## 11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.5	19.0	13.0	12.5	9.0	9.0	---	---	5.5	5.5	9.5	9.5
2	21.5	18.5	13.0	12.5	9.0	8.5	---	---	6.0	5.5	9.5	9.5
3	21.0	18.0	13.0	12.5	8.5	7.5	---	---	6.5	6.0	9.5	9.5
4	21.5	18.0	12.5	12.0	8.5	7.5	---	---	6.5	6.0	9.5	9.5
5	19.5	18.0	12.0	11.5	8.5	8.5	---	---	6.5	6.5	9.5	9.5
6	21.5	17.5	12.0	11.5	9.0	8.5	---	---	7.0	6.5	9.5	9.0
7	19.5	17.5	12.0	11.5	9.0	8.5	---	---	7.5	7.0	9.5	9.0
8	21.0	17.5	11.5	11.0	9.0	8.5	---	---	7.5	7.0	9.5	9.0
9	21.5	17.5	12.0	11.5	9.0	8.5	---	---	7.5	7.0	9.5	9.0
10	22.0	18.0	12.0	11.0	9.0	8.5	---	---	7.5	7.0	9.5	9.0
11	19.0	17.0	11.5	11.0	9.0	8.0	---	---	7.5	7.0	9.0	8.5
12	22.0	17.0	11.0	10.5	8.0	7.5	---	---	7.5	7.0	9.0	9.0
13	19.5	17.5	10.5	10.0	7.5	7.0	---	---	7.5	7.5	9.0	8.5
14	17.5	17.0	10.5	10.0	7.0	7.0	---	---	7.5	7.5	8.5	8.0
15	20.5	17.0	10.5	10.0	7.0	6.5	---	---	8.0	7.5	8.5	8.5
16	20.0	16.5	10.5	10.0	6.5	6.0	8.5	8.5	8.5	8.0	9.5	8.5
17	19.0	16.5	10.0	9.5	6.5	6.0	8.5	8.5	9.0	8.5	9.5	9.0
18	16.5	15.5	9.5	9.5	7.0	6.5	8.5	8.0	9.0	8.5	10.0	9.0
19	15.5	15.0	9.5	9.5	7.5	7.0	8.0	7.5	8.5	8.0	10.0	9.5
20	15.0	13.0	9.5	9.0	7.5	7.0	8.0	7.0	8.5	8.5	10.0	9.5
21	13.5	13.0	9.0	8.5	7.0	6.5	7.5	6.5	9.0	9.0	10.0	9.5
22	13.5	13.0	9.0	8.0	6.5	6.5	8.0	7.0	9.5	9.0	10.0	9.5
23	13.5	13.0	8.0	7.5	6.5	6.0	7.5	7.0	9.5	9.0	10.5	10.0
24	14.0	13.0	7.5	7.5	6.0	5.5	8.0	7.0	9.5	9.5	10.5	10.0
25	14.0	13.0	7.5	7.5	5.0	5.0	8.0	7.0	9.5	9.5	10.5	10.0
26	13.0	12.5	8.0	7.5	5.5	5.0	7.5	7.0	9.5	9.5	10.5	10.5
27	13.5	13.0	8.5	8.0	5.5	5.0	7.0	6.5	9.5	9.5	10.5	10.0
28	13.5	13.0	8.5	8.5	5.5	5.0	7.0	6.0	9.5	9.5	10.5	10.0
29	13.0	12.5	9.0	8.5	5.5	5.0	6.5	5.5	9.5	9.5	10.5	10.0
30	13.0	12.5	9.0	8.5	---	---	6.0	5.5	---	---	11.0	10.5
31	13.0	12.5	---	---	---	---	5.5	5.5	---	---	10.5	10.5
MONTH	23.5	12.5	13.0	7.5	9.0	5.0	---	---	9.5	5.5	11.0	8.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.5	14.5	14.0	17.5	16.5	21.0	19.0	23.5	23.0	20.5	19.5
2	10.5	10.0	14.5	14.0	17.0	16.5	21.0	19.5	23.5	23.0	21.0	20.0
3	10.5	10.0	15.5	14.0	16.5	16.0	20.5	19.5	23.5	23.0	20.5	20.0
4	10.5	10.0	15.0	14.5	16.0	15.5	20.0	19.5	23.5	23.0	20.5	20.0
5	10.0	10.0	15.0	14.5	15.5	15.5	20.0	19.0	23.5	22.5	20.5	19.5
6	10.0	9.5	15.0	15.0	16.0	15.0	21.0	19.5	23.0	22.5	20.5	19.5
7	10.0	10.0	15.5	15.0	16.0	15.5	21.0	20.5	22.5	22.5	20.5	19.5
8	10.0	10.0	15.0	14.5	17.5	15.5	21.0	20.5	22.5	22.5	21.0	20.0
9	10.5	10.0	14.5	14.5	17.0	16.5	21.0	20.5	22.5	22.0	20.5	20.0
10	11.0	10.5	14.5	14.0	17.0	16.5	22.5	20.5	22.5	21.5	20.5	20.0
11	11.5	10.5	14.0	14.0	16.5	16.0	22.5	21.5	22.0	21.5	20.0	19.0
12	11.5	11.0	14.0	14.0	16.5	16.0	23.0	22.0	22.5	21.5	19.5	19.0
13	12.0	11.5	14.0	14.0	16.0	15.5	23.0	22.5	22.5	21.5	19.5	19.0
14	12.0	11.5	14.0	14.0	15.5	15.5	23.0	22.5	22.5	21.0	19.0	18.5
15	12.0	11.5	15.5	14.0	17.5	15.0	23.0	22.5	22.5	22.0	18.5	18.0
16	12.5	12.0	16.0	14.5	17.0	16.5	23.5	23.0	23.0	21.5	18.5	17.5
17	12.5	12.0	16.0	15.0	19.0	16.5	23.5	23.0	22.5	22.0	18.5	17.5
18	12.5	12.0	16.0	15.5	19.0	17.0	23.5	23.0	22.5	22.0	18.0	17.5
19	13.0	12.5	17.5	16.0	18.5	17.5	23.5	23.0	22.5	22.0	18.0	17.5
20	13.0	12.5	18.0	16.5	18.5	17.0	24.0	23.5	22.0	21.5	18.5	17.5
21	13.0	12.5	17.0	16.5	18.0	17.0	24.0	23.5	21.5	21.0	18.0	17.0
22	12.5	12.5	17.0	16.0	18.5	17.0	23.5	23.5	21.5	20.5	18.0	17.0
23	12.5	12.5	16.0	15.5	17.5	16.5	23.5	23.0	21.5	20.5	18.5	17.5
24	13.0	12.5	15.5	15.0	17.0	16.5	23.5	23.0	21.5	20.5	19.0	17.5
25	13.0	13.0	15.0	14.5	17.0	16.0	24.0	23.0	21.0	20.5	18.5	17.5
26	13.5	13.0	15.0	14.5	18.0	16.5	24.0	23.5	21.0	20.5	18.0	17.0
27	14.0	13.0	15.0	14.5	19.0	17.0	24.5	23.5	21.5	20.0	17.5	17.0
28	14.0	13.5	15.5	15.0	20.0	18.0	24.5	24.0	21.5	20.5	17.5	16.5
29	14.5	13.5	17.0	15.0	20.0	18.5	24.5	24.0	21.0	20.5	17.5	17.0
30	14.5	14.0	17.5	16.0	20.5	19.0	24.5	24.0	20.5	20.0	18.0	17.0
31	---	---	18.0	16.5	---	---	24.0	23.5	21.0	19.5	---	---
MONTH	14.5	9.5	18.0	14.0	20.5	15.0	24.5	19.0	23.5	19.5	21.0	16.5
YEAR	24.5	5.0										

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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
OCT 25...	1205	13.5	51000	542	74600	16	24	34
NOV 20...	1600	9.0	15900	79	3390	--	--	--
DEC 18...	1200	7.0	11300	9	275	--	--	--
JAN 23...	1420	8.0	36000	218	21200	17	24	32
FEB 21...	1520	9.0	64500	364	63400	17	25	36
MAR 25...	1320	9.5	29700	159	12800	--	--	--
APR 23...	1255	12.5	24500	107	7080	--	--	--
MAY 19...	1305	16.5	14400	30	1170	--	--	--
JUN 24...	1300	17.0	8000	19	410	--	--	--
JUL 23...	1345	22.0	5310	6	86	--	--	--
AUG 25...	1400	20.5	4260	5	58	--	--	--
SEP 26...	1230	18.0	4350	2	23	--	--	--
DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
OCT 25...	46	58	71	85	94	99	100	--
NOV 20...	--	--	31	--	--	--	--	--
DEC 18...	--	--	77	--	--	--	--	--
JAN 23...	43	54	65	77	90	95	100	--
FEB 21...	47	57	64	75	89	100	--	--
MAR 25...	--	--	49	64	83	100	--	--
APR 23...	--	--	31	37	50	81	97	100
MAY 19...	--	--	48	--	--	--	--	--
JUN 24...	--	--	60	--	--	--	--	--
JUL 23...	--	--	71	--	--	--	--	--
AUG 25...	--	--	63	--	--	--	--	--
SEP 26...	--	--	--	--	--	--	--	--

## SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA  
(National stream-quality accounting network station)

LOCATION.--Lat 41°47'22", long 124°03'14", in 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 mi<sup>2</sup> (1,577 km<sup>2</sup>).

## 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.--49 years, 3,813 ft<sup>3</sup>/s (108.0 m<sup>3</sup>/s), 2,763,000 acre-ft/yr (3.41 km<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228,000 ft<sup>3</sup>/s (6,460 m<sup>3</sup>/s) Dec. 22, 1964, gage height, 48.5 ft (14.78 m), from floodmarks, from rating curve extended above 110,000 ft<sup>3</sup>/s (3,120 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 39.51 ft (12.043 m); minimum daily, 160 ft<sup>3</sup>/s (4.53 m<sup>3</sup>/s) Oct. 24, 25, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 36,000 ft<sup>3</sup>/s (1,020 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Nov. 24	0815	*76500	2170	Jan. 13	1330	65900	1870
Dec. 2	1930	36700	1040	Mar. 14	0630	67800	1920

Minimum daily discharge, 224 ft<sup>3</sup>/s (6.34 m<sup>3</sup>/s) Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	2740	3500	13600	2110	7040	2750	2140	998	607	348	258
2	234	2290	16100	9390	2450	5640	2530	2030	979	592	344	255
3	233	2490	16000	6840	9680	5410	2410	1950	982	581	344	255
4	233	5390	8680	5550	6480	6120	2810	1900	958	580	338	254
5	231	8750	6750	5860	4790	5570	5290	1800	963	581	332	250
6	230	6370	5440	6280	5320	4960	8420	1700	928	568	329	246
7	230	5760	4600	5240	4650	4410	6680	1600	904	559	325	250
8	230	4230	3940	4500	3990	3930	5510	1540	884	553	322	249
9	230	3220	3440	4230	3490	3530	8310	2130	866	557	317	243
10	229	2610	3150	5060	3120	3220	7110	2160	848	546	314	239
11	227	2180	2770	5450	2830	3180	5560	1860	833	532	311	239
12	227	1900	2510	44300	2580	3030	4820	1760	830	521	309	237
13	227	1680	2290	56800	2380	14500	4520	1690	843	511	305	237
14	273	1530	2120	46000	2230	45200	4680	1640	838	499	300	241
15	438	1410	1990	24800	2090	17400	4740	1550	805	492	295	244
16	314	3070	1860	17500	2010	10800	4190	1460	777	482	293	241
17	270	5260	1760	15100	2580	8700	3910	1390	760	467	289	237
18	299	6620	1800	10600	11600	8460	3550	1340	734	459	286	237
19	2390	5760	4000	8060	13600	7350	3390	1300	714	448	283	262
20	5660	4330	5300	6520	9880	7040	4520	1250	700	437	283	262
21	3320	3440	11100	5500	7300	7270	5130	1210	688	431	280	259
22	2080	7690	8400	4790	6320	6560	4440	1220	687	421	275	247
23	3600	26000	7790	4220	6060	5820	3880	1290	692	418	272	239
24	4990	45700	12300	3790	5150	5080	3580	1310	696	413	271	231
25	20200	16600	8440	3440	4950	4630	3260	1270	799	397	269	229
26	5910	10100	6250	3130	5930	4160	2990	1240	747	389	265	226
27	4030	7170	5060	2880	7100	3840	2830	1200	688	382	263	224
28	3690	5620	4280	2650	12700	3520	2750	1160	659	374	263	231
29	3000	4690	3750	2440	9830	3280	2530	1110	637	367	262	236
30	2570	4020	6090	2270	---	3090	2290	1070	622	360	260	230
31	2920	---	15300	2150	---	2940	---	1030	---	354	259	---
TOTAL	68953	208620	186760	338940	163200	225680	129380	47300	24059	14878	9206	7288
MEAN	2224	6954	6025	10930	5628	7280	4313	1526	802	480	297	243
MAX	20200	45700	16100	56800	13600	45200	8420	2160	998	607	348	262
MIN	227	1410	1760	2150	2010	2940	2290	1030	622	354	259	224
AC-FT	136800	413800	370400	672300	323700	447600	256600	93820	47720	29510	18260	14460
CAL YR 1979 TOTAL	1320152			3617	MAX 54700	MIN 227	AC-FT 2619000					
WTR YR 1980 TOTAL	1424264			3891	MAX 56800	MIN 224	AC-FT 2825000					



## 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 to current year.  
 WATER TEMPERATURES: Water years 1966 to current year.  
 SEDIMENT RECORDS: Water years 1955-56, November 1977 to current year.

PERIOD OF DAILY RECORD.--  
 SPECIFIC CONDUCTANCE: November 1978 to current year.  
 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.--

SPECIFIC CONDUCTANCE: Maximum recorded, 148 micromhos Oct. 13, 1979; minimum recorded, 62 micromhos Jan. 12, 1980.  
 WATER TEMPERATURES: Maximum recorded, 24.5°C July 15, 1972, July 26, 27, 1973; minimum recorded, 0.5°C Dec. 10, 11, 1972.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 148 micromhos Oct. 13; minimum recorded, 62 micromhos Jan. 12.  
 WATER TEMPERATURE: Maximum recorded, 23.5°C July 27-29; minimum recorded, 3.0°C Jan. 30.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT											
01...A	1535	236	--	8.1	18.0	.00	10.1	--	--	--	--
24...	1445	2900	116	7.7	13.5	.80	10.7	--	56	110	52
NOV											
05...A	1610	7920	--	7.5	11.5	3.0	11.4	--	--	--	--
21...	1045	3460	113	8.2	7.0	.30	12.6	--	10	11	53
DEC											
04...A	1600	8150	--	7.4	10.0	2.0	11.4	--	--	--	--
19...	1015	3670	99	7.7	9.5	1.5	12.0	--	120	74	48
JAN											
09...A	0815	4170	94	7.7	9.0	1.0	12.0	--	--	--	46
24...	1030	3800	94	7.7	8.0	2.4	12.9	--	K7	K4	43
FEB											
04...A	1645	5850	--	7.5	9.0	3.0	12.4	--	--	--	--
22...	1015	6260	87	7.6	9.0	2.5	12.4	--	16	11	44
MAR											
26...	1030	4150	94	7.8	9.0	2.5	12.4	107	K4	K1	43
APR											
24...	1100	3670	94	7.8	10.0	1.2	11.8	105	K3	K1	43
MAY											
05...A	1600	1790	--	7.8	13.0	1.0	11.2	--	--	--	--
28...	1300	1170	108	7.8	13.0	.40	11.1	105	K6	K2	52
JUN											
03...A	1650	--	--	7.9	14.5	1.0	10.8	--	--	--	--
25...	1500	830	119	7.9	15.5	1.2	11.0	112	K7	K2	55
JUL											
08...A	1730	--	--	8.0	18.0	1.0	10.0	--	--	--	--
25...	0915	390	135	8.0	20.5	.30	9.0	100	20	12	65
AUG											
19...	1550	--	--	8.1	20.5	1.0	9.7	--	--	--	--
26...A	1415	265	153	8.0	20.0	2.0	9.6	103	<1	49	71
SEP											
15...A	1725	--	--	8.2	16.5	1.0	9.9	--	--	--	--
24...	1400	230	157	8.1	17.5	.50	9.9	104	K5	K5	70

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

## SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)
OCT										
01...	--	--	--	--	--	--	--	--	--	--
24...	.37	.35	.46	.38	.48	.01	.01	2.7	--	--
NOV										
05...	--	--	--	--	--	--	--	--	--	--
21...	.22	.21	.22	.21	.27	.01	.01	3.2	--	--
DEC										
04...	--	--	--	--	--	--	--	--	--	--
19...	.47	.33	.47	.34	.49	.01	.01	--	2.3	.2
JAN										
09...	--	--	--	--	--	--	--	--	--	--
24...	.43	.38	.45	.39	.49	.03	.02	1.6	--	--
FEB										
04...	--	--	--	--	--	--	--	--	--	--
22...	.24	.05	.25	.05	.31	.04	.01	1.7	--	--
MAR										
26...	.48	.24	.50	.26	.53	.01	.02	--	1.0	.3
APR										
24...	.24	.15	.24	.17	.25	.01	.01	.9	--	--
MAY										
05...	--	--	--	--	--	--	--	--	--	--
28...	--	.31	--	.34	--	.01	.01	.8	--	--
JUN										
03...	--	--	--	--	--	--	--	--	--	--
25...	--	.46	--	.46	--	.01	.02	--	--	.1
JUL										
08...	--	--	--	--	--	--	--	--	--	--
25...	.82	.77	.82	.77	.82	.00	.01	1.5	--	--
AUG										
19...	--	--	--	--	--	--	--	--	--	--
26...	.59	.53	.59	.54	.59	.01	.02	6.6	--	--
SEP										
15...	--	--	--	--	--	--	--	--	--	--
24...	.86	.11	.87	.11	.87	.03	.03	--	1.2	.2

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)	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										
21...	1045	--	--	--	--	--	--	--	--	--
DEC										
19...	1015	--	2	200	10	--	1	<1	20	0
JAN										
09...	0815	--	--	--	--	0	--	--	--	--
FEB										
22...	1015	--	--	--	--	--	--	--	--	--
MAR										
26...	1030	0	0	100	10	--	0	<1	20	0
MAY										
28...	1300	--	--	--	--	--	--	--	--	--
JUN										
25...	1500	1	0	0	10	--	1	<1	0	0
AUG										
26...	1415	--	--	--	--	--	--	--	--	--
SEP										
24...	1400	1	2	0	20	--	0	<1	30	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)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
NOV										
21...	--	--	--	--	--	--	--	--	--	--
DEC										
19...	0	<3	5	0	150	30	6	0	50	<1
JAN										
09...	--	--	--	--	--	--	--	--	--	--
FEB										
22...	--	--	--	--	--	--	--	--	--	--
MAR										
26...	1	<3	4	2	220	20	4	0	10	<1
MAY										
28...	--	--	--	--	--	--	--	--	--	--
JUN										
25...	0	<3	6	2	200	<10	5	4	10	1
AUG										
26...	--	--	--	--	--	--	--	--	--	--
SEP										
24...	0	<3	10	0	50	<10	3	0	0	0

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 01...	--	--	--	--	--	--	--	--	--	--
24...	2	4.5	9.8	1.8	7	.1	.2	50	3.5	2.3
NOV 05...	--	--	--	--	--	--	--	--	--	--
21...	2	4.6	10	1.9	26	.1	.2	51	2.6	1.9
DEC 04...	--	--	--	--	--	--	--	--	--	--
19...	2	5.0	8.5	1.9	25	.1	.2	46	4.2	2.0
JAN 09...	--	5.0	8.0	2.0	--	.1	--	--	--	2.0
24...	0	5.0	7.3	1.9	9	.1	.3	46	.2	1.8
FEB 04...	--	--	--	--	--	--	--	--	--	--
22...	5	4.7	7.8	1.8	8	.1	.2	39	.7	2.1
MAR 26...	4	4.8	7.5	1.8	8	.1	.3	39	1.9	1.8
APR 24...	4	4.3	7.9	1.6	7	.1	.3	39	5.2	2.6
MAY 05...	--	--	--	--	--	--	--	--	--	--
28...	7	5.9	9.0	1.8	7	.1	.3	45	2.6	3.3
JUN 03...	--	--	--	--	--	--	--	--	--	--
25...	0	6.3	9.6	2.1	8	.1	.4	55	1.0	1.1
JUL 08...	--	--	--	--	--	--	--	--	--	--
25...	9	8.0	11	2.5	8	.1	.4	59	6.0	2.5
AUG 19...	--	--	--	--	--	--	--	--	--	--
26...	6	8.5	12	2.6	7	.1	.2	65	3.1	2.9
SEP 15...	--	--	--	--	--	--	--	--	--	--
24...	1	8.1	12	2.5	7	.1	.5	69	2.7	3.0
DATE	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 CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT 01...	--	--	--	--	--	--	--	--	--	--
24...	.0	13	68	65	.09	532	.02	.02	.09	.03
NOV 05...	--	--	--	--	--	--	--	--	--	--
21...	.0	15	67	67	.09	626	.05	.04	.00	.00
DEC 04...	--	--	--	--	--	--	--	--	--	--
19...	.0	13	56	63	.08	555	.02	.02	.00	.01
JAN 09...	--	--	--	--	--	--	--	--	--	--
24...	.0	14	60	58	.08	616	.04	.01	.02	.01
FEB 04...	--	--	--	--	--	--	--	--	--	--
22...	.1	13	61	55	.08	1030	.06	.06	.01	.00
MAR 26...	.0	13	59	55	.08	661	.03	.01	.02	.02
APR 24...	.1	13	55	58	.07	545	.01	.00	.00	.02
MAY 05...	--	--	--	--	--	--	--	--	--	--
28...	.1	13	61	63	.08	193	.02	.02	.06	.03
JUN 03...	--	--	--	--	--	--	--	--	--	--
25...	.0	13	77	118	.10	173	.00	.00	.04	.00
JUL 08...	--	--	--	--	--	--	--	--	--	--
25...	.2	14	79	77	.11	83.2	.00	.01	.00	.00
AUG 19...	--	--	--	--	--	--	--	--	--	--
26...	.0	13	83	81	.11	59.4	.00	.00	.00	.01
SEP 15...	--	--	--	--	--	--	--	--	--	--
24...	.0	12	85	82	.12	52.8	.00	.00	.01	.00

## SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, 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)
NOV 21...	--	--	--	--	--	--	0	--	--	--
DEC 19...	.0	.0	10	6	0	0	0	0	20	<3
JAN 09...	--	--	--	--	--	--	--	--	--	--
FEB 22...	--	--	--	--	--	--	0	--	--	--
MAR 26...	.1	.0	8	7	0	0	0	0	20	10
MAY 28...	--	--	--	--	--	--	0	--	--	--
JUN 25...	.1	.1	13	6	0	0	0	0	20	<3
AUG 26...	--	--	--	--	--	--	1	--	--	--
SEP 24...	.0	.0	10	7	0	0	0	0	20	<3

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE TIME	NOV 21,79 1045	MAR 26,80 1030	MAY 28,80 1300	JUN 25,80 1500
TOTAL CELLS/ML	200	100	170	64
DIVERSITY: DIVISION	0.3	0.7	0.4	0.0
..CLASS	0.3	0.7	0.4	0.0
..ORDER	0.3	0.7	0.4	1.0
...FAMILY	2.5	1.8	0.4	1.9
....GENUS	2.8	2.4	0.4	1.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....CHLOROCOCCACEAE								
.....CHLOROCOCCUM	--	-	5	5	--	-	--	-
....OOCYSTACEAE								
.....ANKISTRODESMUS	--	-	15	15	--	-	--	-
....SCENEDESMACEAE								
.....CRUCIGENIA	--	-	20#	20	--	-	--	-
....SCENEDESMUS	10	5	40#	40	--	-	--	-
CHRYSTOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCAEAE								
.....MELOSIRA	--	-	--	-	--	-	26#	40
....PENNALES								
.....ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	--	-
.....COCCONEIS	46#	22	--	-	--	-	--	-
....RHOICOSPHEA	15	7	--	-	--	-	--	-
....CYMBELLACEAE								
.....CYMBELLA	--	-	--	-	13	8	--	-
....EPITHEMIA	10	5	--	-	--	-	13#	20
....DIATOMACEAE								
.....DIATOMA	10	5	5	5	--	-	--	-
....FRAGILARIACEAE								
.....SYNEDRA	20	10	--	-	--	-	--	-
....GOMPHONEMACEAE								
.....GOMPHONEMA	25	13	10	10	--	-	13#	20
....NAVICULACEAE								
.....NAVICULA	5	2	--	-	--	-	--	-
....NITZSCHACEAE								
.....NITZSCHIA	61#	30	5	5	--	-	13#	20
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
.....ANACYSTIS	--	-	--	-	--	-	--	-
....HORMOGONALES								
.....NOSTOCACEAE								
....ANABAENA	--	-	--	-	150#	92	--	-
....OSCILLATORACEAE								
.....LYNGBYA	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	--	-

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

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

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PHYTOPLANKTON

DATE TIME	JUL 25,80 0915	AUG 26,80 1415	SEP 24,80 1400
TOTAL CELLS/ML	1300	64	26
DIVERSITY: DIVISION	0.2	0.7	0.0
..CLASS	0.2	0.7	0.0
...ORDER	0.2	0.7	0.0
....FAMILY	0.2	2.3	1.0
....GENUS	1.0	2.3	1.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....CHLOROCOCCACEAE						
.....CHLOROCOCCUM	--	-	--	-	--	-
.....OOCYSTACEAE						
....ANKISTRODESMUS	13	1	--	-	--	-
....SCENEDESMACEAE						
.....CRUCIGENIA	--	-	--	-	--	-
.....SCENEDESMUS	--	-	--	-	--	-
CHRYSOPHYTA						
..BACILLARIOPHYCEAE						
...CENTRALES						
....COSCINODISCACEAE						
.....MELOSIRA	--	-	--	-	--	-
.....PENNALES						
....ACHNANTHACEAE						
.....ACHNANTHES	13	1	--	-	--	-
....COCCONEIS	--	-	13#	20	--	-
....RHOICOSPHEA	--	-	--	-	--	-
....CYMBELLACEAE						
.....CYMBELLA	--	-	--	-	--	-
....EPITHEMIA	--	-	13#	20	13#	50
....DIATOMACEAE						
.....DIATOMA	--	-	--	-	--	-
....FRAGILARIACEAE						
.....SYNEDRA	--	-	13#	20	13#	50
....GOMPHONEMACEAE						
.....GOMPHONEMA	--	-	--	-	--	-
....NAVICULACEAE						
.....NAVICULA	--	-	--	-	--	-
....NITZSCHACEAE						
.....NITZSCHIA	--	-	13#	20	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
.....ANACYSTIS	--	-	13#	20	--	-
....HORMOGONALES						
....NOSTOCACEAE						
.....ANABAENA	--	-	--	-	--	-
....OSCILLATORIACEAE						
.....LYNGBYA	390#	29	--	-	--	-
....OSCILLATORIA	900#	69	--	-	--	-

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 TOTAL BIOMASS 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)	SAMPLING METHOD
APR 24...	1100	29	6.14	5.75	3.59	.120	109	POLYETHYLENE STRIP
JUN 25...	1500	28	6.14	3.47	8.10	1.99	330	POLYETHYLENE STRIP
JUL 25...	0915	30	3.86	2.36	3.12	.180	481	POLYETHYLENE STRIP
SEP 24...	1400	28	.472	.157	.200	.080	1575	POLYETHYLENE STRIP

## SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	109	96	91	93	86	94	90	107	122	---	144
2	146	108	75	---	89	86	93	---	108	122	137	142
3	145	109	82	---	80	86	93	92	107	122	138	139
4	147	103	86	88	85	88	92	93	107	---	138	144
5	146	96	88	94	89	87	85	87	108	---	138	144
6	145	100	91	91	90	87	87	89	108	120	138	143
7	147	103	---	90	90	88	88	91	109	118	138	143
8	145	104	---	92	91	92	89	91	110	125	138	143
9	147	106	---	93	92	94	85	93	113	119	139	145
10	146	108	101	95	94	94	84	94	114	118	139	147
11	145	108	100	96	93	95	87	95	115	124	138	147
12	145	108	99	62	94	94	87	97	112	124	139	---
13	148	110	99	66	95	89	81	96	112	125	139	147
14	145	111	101	68	98	62	81	93	113	126	140	147
15	143	111	102	70	97	75	82	97	113	127	---	145
16	146	113	103	75	---	77	83	---	113	125	140	145
17	142	116	100	76	---	79	83	---	113	128	140	144
18	141	103	103	80	76	80	83	99	112	---	140	146
19	109	99	99	83	78	83	82	100	112	130	139	---
20	93	103	96	86	80	84	---	105	115	130	139	145
21	107	104	86	87	85	83	87	107	118	133	142	145
22	113	107	84	88	86	84	89	102	119	132	142	143
23	110	91	91	89	88	85	87	---	119	133	143	145
24	108	82	89	91	88	---	90	103	120	133	143	145
25	89	80	---	93	83	---	92	105	117	135	143	---
26	97	84	94	94	85	90	---	104	112	---	143	---
27	---	87	94	95	78	91	---	100	115	135	143	142
28	104	90	95	97	73	92	91	108	118	136	142	138
29	107	93	96	---	83	94	92	105	119	136	142	137
30	107	95	---	97	---	95	91	107	122	135	142	145
31	107	---	83	97	---	95	---	---	---	136	142	---
MONTH	129	101	94	87	87	87	87	98	113	128	140	144
YEAR	MAX	148	MIN	62	MEAN	108						

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	16.5	12.0	11.0	9.5	9.0	9.5	9.5	7.5	6.0	9.0	8.5
2	18.0	17.0	11.5	11.0	10.5	9.5	9.5	8.5	8.5	8.0	10.0	9.0
3	17.5	17.0	11.5	11.5	10.5	10.0	8.5	8.0	9.0	8.5	9.5	9.5
4	17.5	16.5	11.5	11.5	10.0	9.5	9.0	8.5	8.5	8.0	9.5	8.5
5	17.0	17.0	11.5	11.0	10.0	10.0	9.5	9.0	8.5	8.0	9.0	8.5
6	17.5	16.5	11.0	11.0	9.0	8.5	9.5	9.0	9.0	8.5	9.0	8.5
7	17.0	16.0	11.5	11.0	9.5	9.0	9.0	7.5	8.5	7.5	9.5	8.0
8	17.0	16.0	11.0	10.0	9.5	9.0	8.5	8.0	8.0	7.0	9.5	8.5
9	17.0	16.0	10.5	10.0	10.0	9.5	8.5	8.5	8.0	7.0	9.5	8.0
10	17.0	16.0	10.0	9.5	10.0	9.0	8.5	6.5	8.5	8.0	9.5	8.0
11	16.5	16.0	9.5	9.0	9.0	7.0	8.5	6.5	8.5	7.5	9.5	8.5
12	16.5	16.0	9.5	9.0	7.0	6.5	9.5	9.0	8.0	7.0	8.5	7.5
13	16.5	16.0	9.0	8.5	7.0	6.5	9.5	9.5	7.5	7.0	9.0	8.0
14	16.5	16.5	9.0	8.5	7.0	6.5	10.0	9.5	7.5	7.0	9.0	8.0
15	16.5	16.0	9.5	8.5	7.0	6.0	9.5	9.0	8.5	7.5	8.5	7.5
16	16.5	16.0	11.0	9.5	6.0	6.0	10.0	9.5	9.5	9.0	9.0	7.0
17	16.0	15.5	11.0	11.0	8.0	6.0	10.0	8.5	10.0	9.5	8.0	7.5
18	15.5	14.5	10.5	9.5	8.5	8.0	8.5	7.0	10.0	9.0	9.0	7.5
19	14.5	12.5	9.5	8.5	9.5	8.5	7.0	6.5	9.0	9.0	9.5	7.5
20	12.5	11.5	9.0	8.0	9.5	9.0	7.5	6.5	9.0	8.5	9.5	8.0
21	11.5	11.0	8.5	7.5	9.0	8.0	7.5	6.5	9.0	8.0	9.0	7.0
22	12.0	11.5	9.5	8.5	8.0	7.5	8.5	7.5	8.5	8.0	9.5	7.5
23	12.5	12.0	10.0	9.0	7.5	7.0	8.5	7.5	8.5	7.0	9.5	8.0
24	13.0	12.5	10.5	10.0	8.5	7.5	8.5	8.0	9.5	8.5	9.0	7.5
25	13.0	12.0	10.0	8.5	8.5	8.0	8.0	7.5	9.5	9.0	9.5	7.5
26	12.5	11.5	8.5	8.0	8.0	7.0	7.5	6.0	10.0	9.5	9.0	8.5
27	12.5	12.0	8.5	7.5	7.0	6.5	6.5	6.0	10.0	9.0	9.5	7.5
28	12.0	11.5	9.0	8.0	7.5	6.5	6.0	5.0	9.5	9.0	9.5	7.5
29	11.5	10.5	9.5	9.0	8.5	7.5	5.0	3.5	9.0	8.0	9.5	8.0
30	11.0	10.5	9.5	9.5	8.5	8.5	4.5	3.0	---	---	9.5	8.0
31	12.0	11.0	---	---	9.5	8.5	6.0	4.5	---	---	9.0	8.0
MONTH	18.0	10.5	12.0	7.5	10.5	6.0	10.0	3.0	10.0	6.0	10.0	7.0

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	7.5	13.0	11.0	16.0	14.5	20.0	18.5	21.5	20.5	20.0	18.5
2	9.5	7.5	14.0	12.0	14.5	13.0	19.5	18.0	21.5	20.5	19.5	18.5
3	9.0	7.5	14.5	12.0	13.5	12.5	18.5	18.0	21.5	20.5	20.0	19.0
4	8.5	8.0	14.0	12.0	14.0	12.5	18.0	17.0	21.5	20.5	20.0	19.0
5	8.5	8.0	13.0	11.5	14.0	12.5	17.5	16.5	21.5	20.0	20.5	19.0
6	8.5	7.5	13.5	11.0	13.0	12.0	18.5	17.0	21.0	20.0	20.0	19.0
7	8.5	7.5	13.5	11.0	14.0	13.0	18.5	18.0	21.0	20.0	20.5	19.0
8	9.5	8.0	13.5	12.0	15.0	13.0	18.5	17.0	21.0	20.0	20.5	19.5
9	10.0	9.0	12.0	10.0	15.5	14.5	17.0	16.0	21.0	20.0	20.5	19.5
10	10.5	8.0	10.5	9.0	15.5	14.5	18.0	16.0	21.0	20.0	19.5	19.0
11	11.0	8.0	11.0	10.0	14.5	14.0	18.5	17.0	20.5	19.5	19.5	18.5
12	11.5	9.0	11.5	10.5	14.0	13.0	19.0	17.5	20.5	20.0	19.0	19.0
13	11.0	9.5	11.0	10.5	13.5	13.0	20.0	18.5	21.0	20.0	19.0	17.5
14	11.0	9.5	12.5	10.5	13.5	12.5	20.0	18.5	21.0	20.0	17.5	16.5
15	11.0	8.5	13.0	11.0	15.5	12.5	21.0	19.0	21.0	20.0	16.5	15.5
16	11.5	9.5	13.0	11.5	15.5	15.0	21.5	20.0	21.0	20.0	17.0	15.5
17	11.5	10.0	14.0	11.5	17.5	15.0	21.5	20.5	21.0	20.0	17.0	16.0
18	11.5	9.5	14.5	12.5	18.0	16.5	21.5	20.5	21.0	19.5	17.0	16.5
19	12.0	10.5	15.5	13.5	17.5	16.0	21.5	20.0	20.5	19.0	17.5	16.5
20	12.0	9.5	15.5	13.5	17.0	16.0	22.5	21.0	20.5	19.0	18.0	17.0
21	10.0	8.5	15.5	13.5	17.0	15.5	22.0	21.0	20.5	19.0	17.0	16.5
22	11.0	8.5	13.5	12.0	16.5	15.5	21.5	20.5	20.5	19.5	17.0	16.0
23	11.5	9.5	12.5	11.0	16.0	14.5	21.0	20.5	20.5	19.5	17.5	16.5
24	11.0	10.0	12.0	10.0	---	---	21.5	20.5	20.5	19.5	18.5	17.0
25	11.0	9.5	12.5	10.5	---	---	22.0	20.5	20.5	19.5	18.5	17.5
26	12.0	9.5	13.0	10.5	16.0	14.0	22.5	21.0	---	---	18.0	17.5
27	13.0	10.5	13.0	11.5	18.0	15.5	23.5	22.0	20.5	19.5	17.5	17.0
28	13.0	11.5	14.5	12.0	19.5	17.5	23.5	22.5	20.5	19.5	17.5	17.0
29	13.0	11.0	15.5	13.5	20.0	18.5	23.5	22.5	20.0	19.0	18.0	17.0
30	13.0	10.5	16.0	14.0	20.0	18.5	23.0	22.0	19.0	18.0	17.5	16.5
31	---	---	16.5	14.5	---	---	22.5	21.0	19.5	18.5	---	---
MONTH	13.0	7.5	16.5	9.0	20.0	12.0	23.5	16.0	21.5	18.0	20.5	15.5
YEAR	23.5	3.0										

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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						
24...	1545	13.0	3050	4	33	53
NOV						
21...	1415	8.0	3370	3	27	55
DEC						
19...	1300	9.0	4460	5	60	71
JAN						
24...	1320	9.0	3760	6	61	84
FEB						
22...	1325	9.5	6270	19	322	71
MAR						
26...	1350	9.5	4120	5	56	71
APR						
24...	1410	11.5	3580	4	39	57
MAY						
28...	1210	12.5	1160	2	6.3	--
JUN						
25...	1415	15.5	830	5	11	--
JUL						
24...	2040	21.0	411	1	1.1	--
AUG						
26...	1400	20.0	265	1	.72	--
SEP						
24...	1715	18.0	233	1	.63	--

## SMITH RIVER BASIN

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 mi<sup>2</sup> (74.1 km<sup>2</sup>).

## 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.--6 years, 122 ft<sup>3</sup>/s (3.455 m<sup>3</sup>/s), 88,390 acre-ft/yr (109 hm<sup>3</sup>/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,460 ft<sup>3</sup>/s (126 m<sup>3</sup>/s) Mar. 18, 1975, gage height, 8.51 ft (2.594 m); minimum daily, 2.5 ft<sup>3</sup>/s (0.071 m<sup>3</sup>/s) Oct. 2-5, 23, 24, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft<sup>3</sup>/s (57 m<sup>3</sup>/s) and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s) (m <sup>3</sup> /s)		Gage height (ft) (m)	
Jan. 13	unknown	2400	68.0	5.86	1.786
Mar. 14	0600	*3500	99.1	7.38	2.249

Minimum daily discharge, 3.2 ft<sup>3</sup>/s (0.09 m<sup>3</sup>/s) Sept. 10-12, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	78	136	340	63	264	84	64	26	16	7.3	4.0
2	4.5	73	435	260	79	208	77	60	25	15	6.7	4.0
3	4.5	98	437	210	317	203	75	56	25	15	6.7	3.7
4	4.5	196	312	185	212	209	94	54	24	15	6.3	3.8
5	4.0	277	262	205	163	193	122	52	24	15	6.3	3.5
6	4.0	374	216	235	169	175	153	48	24	15	6.3	3.6
7	4.1	369	181	185	148	154	137	46	23	14	6.3	3.9
8	4.4	240	153	150	132	137	120	44	22	14	6.0	3.8
9	4.5	171	134	135	118	123	201	86	22	14	6.0	3.5
10	4.3	132	122	160	107	113	172	74	22	14	6.0	3.2
11	4.0	110	107	300	97	113	146	60	22	14	6.0	3.2
12	4.0	94	97	840	89	111	128	54	22	13	5.7	3.2
13	4.0	83	92	1800	82	957	114	50	21	13	5.7	3.4
14	8.2	73	83	1100	76	2470	110	46	20	12	5.4	3.8
15	9.4	67	75	770	71	872	107	44	20	12	5.4	4.0
16	7.3	262	71	580	67	487	96	43	20	12	5.4	3.8
17	6.5	534	66	460	99	365	87	40	19	11	5.1	3.3
18	13	429	80	370	319	315	80	39	18	11	5.4	3.6
19	88	392	193	290	381	252	75	37	18	10	5.2	4.1
20	245	285	245	240	300	252	173	35	18	10	5.4	4.4
21	99	212	439	195	245	310	191	34	17	10	4.8	4.5
22	71	401	360	165	207	257	161	34	17	10	4.8	4.3
23	139	484	333	140	175	208	140	39	18	10	4.6	4.0
24	242	1150	421	123	153	176	129	38	20	10	4.3	3.5
25	864	611	340	109	148	161	116	34	26	9.1	4.3	3.3
26	238	429	268	97	162	142	103	32	22	8.8	4.4	3.2
27	163	314	219	88	292	127	94	31	20	8.1	4.5	3.4
28	129	238	181	80	463	115	85	29	18	7.7	4.0	4.5
29	102	191	156	73	355	105	78	28	17	7.5	4.0	4.8
30	91	158	284	68	---	96	71	27	16	7.5	4.0	4.5
31	88	---	480	64	---	90	---	26	---	7.3	4.0	---
TOTAL	2658.7	8525	6978	10017	5289	9760	3519	1384	626	361.0	166.3	113.8
MEAN	85.8	284	225	323	182	315	117	44.6	20.9	11.6	5.36	3.79
MAX	864	1150	480	1800	463	2470	201	86	26	16	7.3	4.8
MIN	4.0	67	66	64	63	90	71	26	16	7.3	4.0	3.2
AC-FT	5270	16910	13840	19870	10490	19360	6980	2750	1240	716	330	226
CAL YR 1979 TOTAL	51196.8			MEAN 140	MAX 1890	MIN 4.0	AC-FT 101500					
WTR YR 1980 TOTAL	49397.8			MEAN 135	MAX 2470	MIN 3.2	AC-FT 97980					



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 28; minimum recorded, 4.0°C Jan. 31.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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

## SMITH RIVER BASIN

11532620 MILL CREEK NEAR CRESCENT CITY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	7.5	14.0	10.0	14.0	12.0	---	---	19.0	15.5	18.0	14.0
2	11.0	7.5	14.0	11.0	12.5	10.5	15.5	14.0	18.5	15.5	17.5	14.0
3	9.0	7.5	14.5	10.5	14.0	11.0	16.0	13.5	19.0	15.0	18.0	15.0
4	10.0	9.0	12.5	11.0	14.0	10.5	15.5	13.5	19.0	15.0	18.0	14.5
5	10.0	9.0	12.0	10.0	13.0	11.5	16.0	13.5	18.5	15.0	18.0	15.0
6	10.5	9.0	13.5	10.5	13.5	10.5	17.0	13.0	18.5	14.5	17.5	15.5
7	10.0	8.5	13.5	9.5	14.5	11.5	16.5	14.5	18.0	14.0	19.0	16.0
8	11.0	9.0	12.5	10.5	15.5	12.5	15.5	14.5	18.5	14.5	19.5	15.0
9	12.0	9.5	11.0	10.0	14.5	13.0	17.0	14.0	18.5	15.0	18.5	15.5
10	12.0	9.0	10.5	9.0	13.5	12.5	18.0	14.0	18.0	15.0	17.0	15.5
11	13.0	8.5	11.0	10.0	13.0	11.5	18.0	14.0	16.5	15.0	18.0	15.5
12	14.0	9.0	11.0	10.5	14.5	12.0	18.5	14.5	18.0	14.5	17.0	15.5
13	13.5	9.5	11.0	10.0	13.5	12.0	18.5	15.0	18.0	15.0	16.5	14.5
14	11.0	10.0	13.0	10.0	14.0	12.0	18.0	15.0	18.5	15.0	16.5	13.5
15	13.0	9.5	13.0	9.5	16.0	11.5	19.5	15.0	18.5	14.5	16.5	13.0
16	13.0	9.5	13.0	9.5	15.0	13.5	19.5	15.5	18.5	14.5	17.0	13.0
17	12.5	10.5	14.0	9.5	16.5	12.5	19.5	15.5	18.5	15.0	16.5	13.0
18	13.0	9.5	12.5	10.5	16.5	13.5	19.0	15.5	18.5	15.0	15.5	14.5
19	13.0	10.5	14.5	11.0	15.5	13.0	20.0	15.5	18.0	14.5	17.0	14.5
20	11.5	10.0	15.0	11.0	16.0	13.5	20.0	16.0	18.0	14.5	17.5	15.5
21	11.0	9.0	13.0	11.5	15.5	13.0	19.5	16.0	17.5	14.0	17.0	13.5
22	12.5	9.0	12.5	10.5	15.0	12.5	18.0	16.0	17.5	14.0	17.0	13.0
23	12.5	9.5	11.5	9.5	16.0	13.0	19.0	15.5	17.5	14.0	18.0	14.0
24	11.5	10.0	12.5	10.0	14.5	13.0	19.5	16.0	---	---	19.0	15.0
25	11.5	9.0	13.0	10.0	15.0	12.5	20.0	15.5	---	---	18.5	15.0
26	13.0	9.0	13.0	9.5	---	---	20.5	16.0	---	---	16.5	15.5
27	13.5	9.5	13.0	10.5	---	---	20.5	16.5	---	---	15.5	15.0
28	12.5	10.5	12.5	10.5	---	---	21.0	17.0	17.5	15.0	17.5	15.0
29	13.5	9.5	15.0	11.0	---	---	20.5	17.0	17.0	14.0	17.5	14.5
30	14.0	9.5	15.5	11.5	---	---	20.0	16.5	17.5	13.5	17.0	14.0
31	---	---	15.0	11.5	---	---	19.5	16.5	18.0	15.0	---	---
MONTH	14.0	7.5	15.5	9.0	16.5	10.5	21.0	13.0	19.0	13.5	19.5	13.0
YEAR	21.0	4.0										

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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						
24...	1155	13.0	93	12	3.0	84
NOV						
26...	1600	9.5	409	9	9.9	57
DEC						
20...	1210	10.0	250	7	4.7	58
JAN						
25...	1210	8.0	112	2	.60	80
FEB						
25...	1505	10.5	143	4	1.5	--
MAR						
27...	1200	9.0	126	2	.68	--
APR						
24...	1815	11.0	127	2	.69	79
MAY						
30...	1440	15.5	28	1	.08	--
JUN						
26...	1315	14.0	22	1	.06	--
JUL						
24...	1235	16.0	10	0	.00	--
AUG						
27...	1220	17.0	4.4	0	.00	--
SEP						
25...	1420	18.5	3.2	1	.01	--

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 1980

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
Klamath River basin						
11516528	Bogus Creek near Hornbrook, CA	Lat 41°55'43", long 122°26'24", in NE¼ sec.17, T.47 N., R.3 W., Siskiyou County, Hydrologic Unit 18010206, 0.5 mi (0.8 km) downstream from Iron Gate Dam and 6.0 mi (9.7 km) northeast of Hornbrook.	53.5	1965-75†, 1976-80	8-29-80	a 12.2
11522200	Elk Creek near Happy Camp, CA	Lat 41°44'36", long 123°18'34", in NW¼NE¼ sec.36, T.16 N., R.7 E., Siskiyou County, Hydrologic Unit 18010209, 0.1 mi (0.2 km) downstream from East Fork, 4.0 mi (6.4 km) upstream from mouth, and 4.0 mi (6.4 km) south of Happy Camp.	90.4	1956-64b, 1967-75†, 1976-80	8-28-80	a 38.0
11525520	Deadwood Creek at Lewiston, CA	Lat 40°43'02", long 122°48'04", in SW¼NW¼ sec.17, T.33 N., R.8 W., Trinity County, Hydrologic Unit 18010211, 300 ft (91 m) upstream from mouth and 0.7 mi (1.7 km) northeast of Lewiston.	9.10	1965-75, 1976-80	2-23-80 3-11-80	49.1 13.1

† Published as a miscellaneous measurement.

a Base flow.

b Operated as a continuous-record gaging station.

## DISCHARGE AT PARTIAL-RECORD STATIONS

## 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	Drain- age area (mi <sup>2</sup> )	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)
Elk River basin							
11469600	Hull Creek near Potter Valley, CA	Lat 39°32'39", long 122°55'34", in SW¼NE¼ 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) north- east of Potter Valley.	1.49	1970-80	1-13-80	55.99	460
11469650	Corbin Creek near Elk Creek, CA	Lat 39°32'56", long 122°43'28", in NW¼NE¼ 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	1971-80	1-13-80	58.00	1620
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) south- west of town of Elk Creek.	.81	1969-70b 1971-80	1-13-80	7.22	218
11472700	Hammerhorn Creek near Covelo, CA	Lat 39°56'42", long 122°59'50", in SW¼SW¼ 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	1970-80	1-13-80	55.36	365

a Peak discharge did not reach base of gage.

b Operated as a continuous record gaging station.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 mi<sup>2</sup> (50.8 km<sup>2</sup>).

PERIOD OF RECORD.--

CHEMICAL ANALYSIS: Water years 1979 to current year.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	
NOV 21...	1450	5.2	434	8.1	12.0	24	10.2	--	--	--	
JAN 03...A	1220	1.1	--	--	10.0	--	--	--	3000	160	
10...A	1040	.90	--	--	10.0	--	--	--	2200	66	
11...	1540	1.2	383	7.4	12.0	18	9.7	--	--	--	
16...A	0950	1.8	--	--	11.5	--	--	--	2800	380	
23...A	0935	.30	--	--	9.0	--	--	--	4300	90	
30...A	0920	.20	--	--	8.0	--	--	--	2100	180	
FEB 20...	1230	466	263	7.4	11.5	30	10.4	--	--	--	
MAR 07...	1300	41	278	8.0	12.0	33	10.4	--	--	--	
MAY 07...	0740	11	286	7.6	12.5	8.0	9.8	92	--	--	
JUL 09...A	0855	34	--	--	15.0	--	--	--	1000	40	
16...A	0905	30	--	--	18.0	--	--	--	300	10	
17...	1150	30	306	7.5	16.0	5.6	9.2	94	--	--	
22...A	1030	40	--	--	17.5	--	--	--	250	35	
SEP 09...	0820	48	340	7.7	20.5	29	8.1	89	--	--	
DATE	TIME	STREP- TOCOCI FECAL, (COLS. PER 100 ML)	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)
NOV 21...	--	220	20	42	28	12	20	.4	2.0	200	--
JAN 03...	260	--	--	--	--	--	--	--	--	--	--
10...	170	--	--	--	--	--	--	--	--	--	--
11...	--	200	27	36	26	11	11	.3	1.5	170	--
16...	1300	--	--	--	--	--	--	--	--	--	--
23...	95	--	--	--	--	--	--	--	--	--	--
30...	55	--	--	--	--	--	--	--	--	--	--
FEB 20...	--	120	9	23	15	7.6	12	.3	1.4	110	--
MAR 07...	--	130	11	26	16	7.4	11	.3	1.1	120	--
MAY 07...	--	140	14	28	18	8.2	11	.3	1.3	130	--
JUL 09...	70	--	--	--	--	--	--	--	--	--	--
16...	75	--	--	--	--	--	--	--	--	--	--
17...	--	140	0	28	18	8.0	11	.3	1.3	150	--
22...	70	--	--	--	--	--	--	--	--	--	--
SEP 09...	--	180	6	34	22	9.0	10	.3	1.7	170	--

A Chemical-quality samples collected by Santa Clara Valley Water District.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PAJARO RIVER BASIN--Continued  
11153500 LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

	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, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV 21...	31	12	.1	16	264	.36	3.71	.25	.08
JAN 03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
11...	33	12	.1	18	243	.33	.79	.65	.61
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
FEB 20...	17	6.1	.1	16	155	.21	195	.50	.50
MAR 07...	15	6.7	.1	20	166	.23	18.4	.39	.39
MAY 07...	13	6.4	.0	20	175	.24	5.20	.34	.34
JUL 09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
17...	12	7.0	.2	19	184	.25	14.9	.05	.05
22...	--	--	--	--	--	--	--	--	--
SEP 09...	19	8.9	.1	17	214	.29	27.7	.00	.00
	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL. (MG/L AS P)
NOV 21...	.170	.100	.82	.56	.99	.66	1.2	.050	.010
JAN 03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
11...	.060	.090	1.2	1.2	1.3	1.3	2.0	.060	.030
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
FEB 20...	.100	.100	.54	.40	.64	.50	1.1	.040	.000
MAR 07...	.120	.110	--	.65	--	.76	--	.050	.030
MAY 07...	.060	.080	.74	.37	.80	.45	--	.040	.050
JUL 09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
17...	.240	.240	.55	.45	.79	.69	.84	.080	.030
22...	--	--	--	--	--	--	--	--	--
SEP 09...	.050	.060	.91	.42	.96	.48	.96	.090	.030
		ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	
NOV 21...	1450	--	--	--	--	240	--	--	
JAN 11...	1540	--	--	--	--	180	--	--	
FEB 20...	1230	20	650	0	4	160	0	0	
MAR 07...	1300	--	--	--	--	160	--	--	
MAY 07...	0740	--	--	--	--	150	--	--	
JUL 17...	1150	--	--	--	--	180	--	--	
SEP 09...	0820	20	2900	2	3	290	0	2	

11153500 PAJARO RIVER BASIN--Continued  
LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

[illegible]

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PAJARO RIVER BASIN--Continued  
11153500 LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 21...	--	--	--	--	--	--	--	--	--	--
JAN 11...	--	--	--	--	--	--	--	--	--	--
FEB 20...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAR 07...	--	--	--	--	--	--	--	--	--	--
MAY 07...	--	--	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--	--	--
SEP 09...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

## 11153530 LLAGAS CREEK AT MACHADO SCHOOL NEAR MORGAN HILL, CA

LOCATION.--Lat 37°05'23", long 121°39'38", in San Francisco de Las Llagas Grant, Santa Clara County, Hydrologic Unit 18060002, on left bank at Machado School, 125 ft (38 m) upstream from Sycamore Avenue bridge, 1,300 ft (396 m) downstream from small right-bank tributary, and 2.8 mi (4.5 km) south of Morgan Hill.  
DRAINAGE AREA.--24.1 mi<sup>2</sup> (62.4 km<sup>2</sup>).

PERIOD OF RECORD.--

CHEMICAL ANALYSIS: Water year 1980.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
NOV 21...	1250	5.5	444	7.9	10.0	17	10.6	--	--	--
JAN 10...A	1005	--	--	--	13.0	--	--	--	1000	210
11...	1400	10	343	7.0	13.0	60	8.2	--	--	--
16...A	0910	--	--	--	14.0	--	--	--	2800	510
23...A	0920	--	--	--	12.0	--	--	--	2400	350
30...	0900	--	--	--	11.0	--	--	--	1200	250
FEB 20...	1430	459	270	7.5	12.5	40	9.1	--	--	--
MAR 07...	1150	54	330	7.7	13.0	25	9.6	--	--	--
MAY 07...	0905	13	330	7.3	12.5	4.4	9.8	92	--	--
JUL 09...A	0905	--	--	--	15.0	--	--	--	4300	700
16...A	0840	--	--	--	15.5	--	--	--	1300	260
17...	1050	35	304	7.6	15.5	3.9	9.3	93	--	--
22...A	1015	--	--	--	17.0	--	--	--	1500	220
SEP 09...	1100	50	365	7.9	20.5	32	8.2	--	--	--
DATE	TIME	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)	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)
NOV 21...	--	--	160	8	42	13	13	15	.5	1.7
JAN 10...	380	--	--	--	--	--	--	--	--	--
11...	--	180	18	30	25	13	14	.4	2.0	160
16...	650	--	--	--	--	--	--	--	--	--
23...	310	--	--	--	--	--	--	--	--	--
30...	260	--	--	--	--	--	--	--	--	--
FEB 20...	--	120	2	24	15	7.9	12	.3	1.4	120
MAR 07...	--	140	0	26	17	7.6	11	.3	1.0	140
MAY 07...	--	180	27	33	23	9.7	11	.3	1.0	150
JUL 09...	1200	--	--	--	--	--	--	--	--	--
16...	390	--	--	--	--	--	--	--	--	--
17...	--	160	7	30	20	8.5	10	.3	1.3	150
22...	600	--	--	--	--	--	--	--	--	--
SEP 09...	--	180	0	34	23	9.6	10	.3	1.6	180

A Chemical-quality samples collected by Santa Clara Valley Water District.



## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PAJARO RIVER BASIN--Continued

11153530 LLAGAS CREEK AT MACHADO SCHOOL NEAR MORGAN HILL, CA--Continued

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, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV 21...	26	11	.1	18	216	.29	3.21	.21	.21
JAN 10...	--	--	--	--	--	--	--	--	--
11...	24	16	.1	24	239	.33	6.45	2.1	2.0
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
FEB 20...	17	6.4	.1	17	164	.22	20.3	.67	.67
MAR 07...	3.4	8.9	.1	20	173	.24	25.2	1.1	1.1
MAY 07...	16	12	.0	22	212	.29	7.44	1.1	1.2
JUL 09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
17...	13	7.1	.2	20	192	.26	18.1	.25	.23
22...	--	--	--	--	--	--	--	--	--
SEP 09...	19	9.0	.1	18	223	.30	30.1	.17	.16

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL. (MG/L AS P)
NOV 21...	.11	.08	.71	.45	.82	.53	1.0	.06	.01
JAN 10...	--	--	--	--	--	--	--	--	--
11...	.06	.07	2.0	1.1	2.1	1.2	4.2	.13	.11
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
FEB 20...	.09	.09	.46	.36	.55	.45	1.2	.08	.01
MAR 07...	.10	.10	.54	.59	.64	.69	1.7	.04	.03
MAY 07...	.00	.00	1.7	.41	1.7	.41	2.8	.04	.01
JUL 09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
17...	.10	.10	.56	.46	.66	.56	.91	.08	.03
22...	--	--	--	--	--	--	--	--	--
SEP 09...	.02	.03	.89	.43	.91	.46	1.1	.11	.01

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECov. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECov. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV 21...	1250	--	--	--	--	230	--	--
JAN 11...	1400	--	--	--	--	110	--	--
FEB 20...	1430	20	90	0	4	150	0	0
MAR 07...	1150	--	--	--	--	150	--	--
MAY 07...	0905	--	--	--	--	140	--	--
JUL 17...	1050	--	--	--	--	10	--	--
SEP 09...	1100	10	6700	2	2	230	0	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PAJARO RIVER BASIN--Continued

11153530 LLAGAS CREEK AT MACHADO SCHOOL NEAR MORGAN HILL, CA--Continued

DATE	CHROMIUM, DIS-SOLVED (UG/L	CHROMIUM, RECOV. FM BOT-TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA- TERIAL (UG/G AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA- TERIAL (UG/G AS PB)
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NOV									
21...	--	--	--	--	--	30	--	--	--
JAN									
11...	--	--	--	--	--	40	--	--	--
FEB									
20...	0	60	30	1	25	50	12000	3	10
MAR									
07...	--	--	--	--	--	40	--	--	--
MAY									
07...	--	--	--	--	--	10	--	--	--
JUL									
17...	--	--	--	--	--	200	--	--	--
SEP									
09...	0	34	20	1	29	10	12000	1	0

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, FM BOT-TOM MA-TERIAL (UG/G) AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G) AS HG)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, FM BOT-TOM MA-TERIAL (UG/G AS ZN)

NOV								
21...	--	--	--	--	--	--	--	--
JAN								
11...	--	--	--	--	--	--	--	--
FEB								
20...	20	550	.1	.06	0	0	10	39
MAR								
07...	--	--	--	--	--	--	--	--
MAY								
07...	--	--	--	--	--	--	--	--
JUL								
17...	--	--	--	--	--	--	--	--
SEP								
09...	10	360	.0	.02	0	0	10	33

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
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NOV										
21...	1250	5.8	.6	--	--	--	--	--	--	--
JAN										
11...	1400	11	.5	--	--	--	--	--	--	--
FEB										
20...	1430	11	.8	.0	.00	.00	.0	.00	.00	.00
MAR										
07...	1150	8.6	.4	--	--	--	--	--	--	--
MAY										
07...	0905	6.0	.1	--	--	--	--	--	--	--
SEP										
09...	1100	10	1.2	.0	.00	.00	.0	.00	.00	.00

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
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NOV										
21...	--	--	--	--	--	--	--	--	--	--
JAN										
11...	--	--	--	--	--	--	--	--	--	--
FEB										
20...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR										
07...	--	--	--	--	--	--	--	--	--	--
MAY										
07...	--	--	--	--	--	--	--	--	--	--
SEP										
09...	.00	.00	.00	.00	.06	.00	.00	.00	.00	.00

# ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PAJARO RIVER BASIN--Continued 11153530 LLAGAS CREEK AT MACHADO SCHOOL NEAR MORGAN HILL, CA--Continued

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 21...	--	--	--	--	--	--	--	--	--	--
JAN 11...	--	--	--	--	--	--	--	--	--	--
FEB 20...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAR 07...	--	--	--	--	--	--	--	--	--	--
MAY 07...	--	--	--	--	--	--	--	--	--	--
SEP 09...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

## 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 mi<sup>2</sup> (73.0 km<sup>2</sup>).  
PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
NOV 21...	1030	13	388	8.5	10.0	13	13.7	--	--	--
JAN 10...A	1020	--	--	--	11.0	--	--	--	2000	580
11...	1140	69	234	7.1	12.0	140	9.6	--	--	--
16...A	0925	--	--	--	13.0	--	--	--	3900	500
23...A	0900	--	--	--	9.0	--	--	--	850	65
30...A	0845	--	--	--	7.0	--	--	--	800	120
FEB 20...	1700	582	266	7.5	12.0	58	10.0	--	--	--
MAR 07...	1045	70	336	7.3	13.0	23	10.3	--	--	--
MAY 07...	1030	12	352	8.0	15.5	18	12.7	127	--	--
JUL 09...A	0830	--	--	--	15.0	--	--	--	6000	630
16...A	0825	--	--	--	16.5	--	--	--	900	90
17...	0935	28	306	7.7	15.5	1.7	10.7	107	--	--
22...A	1000	--	--	--	18.0	--	--	--	1200	200
SEP 09...	1245	42	368	8.1	22.0	21	9.6	--	--	--

DATE	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS CACO3)
NOV 21...	--	140	33	36	13	12	15	.4	1.5	110
JAN 10...	1800	--	--	--	--	--	--	--	--	--
11...	--	110	18	21	15	8.0	24	.3	2.5	96
16...	650	--	--	--	--	--	--	--	--	--
23...	130	--	--	--	--	--	--	--	--	--
30...	160	--	--	--	--	--	--	--	--	--
FEB 20...	--	120	9	23	15	8.0	13	.3	1.5	110
MAR 07...	--	160	11	30	21	9.3	11	.3	1.0	150
MAY 07...	--	180	24	34	24	10	11	.3	1.0	160
JUL 09...	1400	--	--	--	--	--	--	--	--	--
16...	320	--	--	--	--	--	--	--	--	--
17...	--	160	20	31	20	9.0	11	.3	1.2	140
22...	600	--	--	--	--	--	--	--	--	--
SEP 09...	--	180	0	34	23	9.2	10	.3	1.6	180

A Chemical-quality samples collected by Santa Clara Valley Water District.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PAJARO RIVER BASIN--Continued  
11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV 21...	36	9.3	.1	14	189	.26	6.63	.10	.12
JAN 10...	--	--	--	--	--	--	--	--	--
11...	17	9.1	.1	16	152	.21	28.3	1.2	1.2
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
FEB 20...	15	6.7	.1	17	156	.21	245	.78	.78
MAR 07...	17	9.5	.1	23	208	.28	39.3	1.5	1.5
MAY 07...	18	11	.2	21	221	.30	7.16	1.1	1.2
JUL 09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
17...	34	24	.3	17	221	.30	16.7	.10	.08
22...	--	--	--	--	--	--	--	--	--
SEP 09...	18	9.2	.1	18	222	.30	25.2	.05	.04
	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL. (MG/L AS P)
NOV 21...	.110	.070	.49	.35	.60	.42	.70	.030	.010
JAN 10...	--	--	--	--	--	--	--	--	--
11...	.090	.050	1.6	.91	1.7	.96	2.9	.310	.130
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
FEB 20...	.110	.070	.64	.64	.75	.71	1.5	.100	.010
MAR 07...	.030	.030	1.3	.45	1.3	.48	2.8	.040	.030
MAY 07...	.080	.040	.45	.40	.53	.44	1.6	.010	.030
JUL 09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
17...	.040	.010	.56	.59	.60	.60	.70	.040	.010
22...	--	--	--	--	--	--	--	--	--
SEP 09...	.000	.020	1.4	.63	1.4	.65	1.5	.080	.020
		ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	
NOV 21...	1030	--	--	--	--	140	--	--	
JAN 11...	1140	--	--	--	--	130	--	--	
FEB 20...	1700	10	70	1	4	140	0	0	
MAR 07...	1045	--	--	--	--	140	--	--	
MAY 07...	1030	--	--	--	--	120	--	--	
JUL 17...	0935	--	--	--	--	135	--	--	
SEP 09...	1245	10	1600	2	3	160	0	0	

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PAJARO RIVER BASIN--Continued  
11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MAN A- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G) AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G) (AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G) AS ZN)
------	---	---	--	---	--	--	---

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 21...	1030	4.6	--	--	--	--	--	--	--	--
JAN 11...	1140	10	2.5	--	--	--	--	--	--	--
FEB 20...	1700	9.3	1.0	.0	.00	.00	.0	.00	.00	.00
MAR 07...	1045	10	.5	--	--	--	--	--	--	--
MAY 07...	1030	10	.1	--	--	--	--	--	--	--
JUL 17...	0935	4.5	.3	--	--	--	--	--	--	--
SEP 09...	1245	5.6	.9	.0	.00	.00	.0	.00	.00	.00

[illegible]

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PAJARO RIVER BASIN--Continued  
11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 21...	--	--	--	--	--	--	--	--	--	--
JAN 11...	--	--	--	--	--	--	--	--	--	--
FEB 20...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAR 07...	--	--	--	--	--	--	--	--	--	--
MAY 07...	--	--	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--	--	--
SEP 09...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

GUADALUPE RIVER BASIN  
11167500 GUADALUPE CREEK AT GUADALUPE, CA

LOCATION.--Lat 37°13'02", long 121°54'35", in SW¼ sec.19, T.85, R.1 E, Santa Clara County, Hydrologic Unit 18050003, on left bank 0.1 mi (0.2 km) downstream from small left-bank tributary, 0.5 mi (0.8 km) northwest of Guadalupe, and 3.5 mi (5.6 km) upstream from confluence with Alamitos Creek.  
DRAINAGE AREA.--12.8 mi<sup>2</sup> (33.2 km<sup>2</sup>).  
PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water year 1980.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
NOV 20...	1220	.50	635	8.3	8.5	.30	11.5	--	14	--
JAN 03...A	1030	2.3	--	--	9.0	--	--	--	--	200
10...A	1120	2.9	--	--	11.0	--	--	--	--	1500
11...	1945	20	367	--	--	46	--	--	60	--
12...	1045	51	260	6.6	14.0	--	9.9	--	--	--
15...A	0925	28	--	--	13.0	--	--	--	--	2200
22...A	0900	4.9	--	--	6.0	--	--	--	--	1000
29...A	0910	2.9	--	--	7.0	--	--	--	--	480
FEB 19...	1415	424	173	7.5	12.5	760	10.2	--	160	--
MAR 06...	1045	58	285	7.8	11.5	32	10.5	--	17	--
MAY 06...	1045	65	350	--	--	6.4	--	--	13	--
06...	1245	65	--	8.4	13.5	--	11.1	106	--	--
JUL 08...A	0740	1.2	--	--	14.0	--	--	--	--	2500
15...A	0840	19	--	--	13.5	--	--	--	--	2700
16...	1000	26	265	--	--	2.9	--	--	17	--
16...	1100	26	267	7.6	13.5	--	10.4	99	--	--
22...A	1105	25	--	--	15.0	--	--	--	--	1000
SEP 10...	1000	1.5	--	--	--	35	--	--	59	--
10...	1345	1.5	460	8.1	19.0	--	9.4	--	--	--
DATE	COLI- FORM, FECAL 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV 20...	--	--	360	100	57	53	22	12	.5	1.5
JAN 03...	100	90	--	--	--	--	--	--	--	--
10...	110	330	--	--	--	--	--	--	--	--
11...	--	--	170	31	32	22	12	13	.4	2.0
12...	--	--	--	--	--	--	--	--	--	--
15...	340	360	--	--	--	--	--	--	--	--
22...	280	50	--	--	--	--	--	--	--	--
29...	30	65	--	--	--	--	--	--	--	--
FEB 19...	--	--	72	2	14	9.1	6.6	16	.3	2.0
MAR 06...	--	--	130	10	24	17	7.9	12	.3	1.0
MAY 06...	--	--	180	31	33	24	11	12	.4	1.1
06...	--	--	--	--	--	--	--	--	--	--
JUL 08...	60	380	--	--	--	--	--	--	--	--
15...	100	340	--	--	--	--	--	--	--	--
16...	--	--	130	8	25	16	9.0	13	.3	1.1
16...	--	--	--	--	--	--	--	--	--	--
22...	150	500	--	--	--	--	--	--	--	--
SEP 10...	--	--	240	35	43	31	16	13	.5	1.6
10...	--	--	--	--	--	--	--	--	--	--

1. Guadalupe Creek samples collected by Santa Clara Valley Water District.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

DATE	ALKA- LITY (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)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+N03 TOTAL (MG/L AS N)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)
NOV										
20...	260	110	27	.2	17	444	.60	.60	.03	.03
JAN										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
11...	140	33	12	.1	18	219	.30	11.8	.66	.69
12...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
FEB										
19...	70	12	6.7	.1	21	117	.16	134	.79	.76
MAR										
06...	120	23	7.6	.1	17	171	.23	26.8	.31	.31
MAY										
06...	150	33	9.1	.1	17	219	.30	38.4	.13	.13
06...	--	--	--	--	--	--	--	--	--	--
JUL										
08...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
16...	120	14	6.8	.2	15	160	.22	11.2	.05	.05
16...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
SEP										
10...	200	39	12	.2	8.4	272	.37	1.10	.11	.07
10...	--	--	--	--	--	--	--	--	--	--

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)
NOV									
20...	.02	.04	.45	.21	.47	.25	.50	.01	.01
JAN									
03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
11...	.04	.03	1.9	1.2	1.9	1.2	2.6	.26	.10
12...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
FEB									
19...	.20	.04	4.2	.87	4.4	.91	5.2	1.30	.06
MAR									
06...	.04	.03	.46	.41	.50	.44	.81	.06	.03
MAY									
06...	.08	.01	.39	.30	.47	.31	.60	.03	.00
06...	--	--	--	--	--	--	--	--	--
JUL									
08...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
16...	.04	.04	1.2	.39	1.2	.43	1.3	.04	.01
16...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
SEP									
10...	.03	.03	1.4	.27	1.4	.30	1.5	.16	.03
10...	--	--	--	--	--	--	--	--	--

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV								
20...	1220	--	--	--	--	260	--	--
JAN								
11...	1945	--	--	--	--	100	--	--
FEB								
19...	1415	430	580	1	12	40	0	1
MAR								
06...	1045	--	--	--	--	70	--	--
MAY								
06...	1045	--	--	--	--	140	--	--
JUL								
16...	1000	--	--	--	--	150	--	--
SEP								
10...	1000	--	--	--	--	270	--	--
10...	1345	0	5100	3	6	--	0	2

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

11167500 GUADALUPE RIVER BASIN--Continued  
GUADALUPE CREEK AT GUADALUPE, CA--Continued

[illegible]



## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

 11167500 GUADALUPE RIVER BASIN--Continued  
 GUADALUPE CREEK AT GUADALUPE, CA--Continued

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 20...	--	--	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	--	--	--	--	--
FEB 19...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAR 06...	--	--	--	--	--	--	--	--	--	--
MAY 06...	--	--	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--
SEP 10...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

## 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 mi<sup>2</sup> (137.3 km<sup>2</sup>).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
NOV 20...	1400	10	470	8.4	16.5	2.2	11.6	--	13	--
JAN 03...A	1015	6.2	--	--	12.0	--	--	--	--	400
10...A	0855	14	--	--	12.5	--	--	--	--	4000
11...	1810	86	477	--	--	30	--	--	19	--
12...	1230	229	391	7.8	14.0	--	8.8	--	--	--
16...A	1025	182	--	--	15.0	--	--	--	--	18000
22...A	0845	18	--	--	11.0	--	--	--	--	2800
29...A	0855	7.0	--	--	11.0	--	--	--	--	800
FEB 19...	0145	1420	266	--	--	220	--	--	73	--
19...	1205	2360	223	7.3	12.5	--	9.4	--	--	--
MAR 05...	2300	316	363	--	--	39	--	--	22	--
06...	1215	270	352	7.6	12.5	--	9.5	--	--	--
MAY 06...	1215	18	451	--	--	18	--	--	20	--
06...	1345	18	--	8.3	19.5	--	11.8	128	--	--
JUL 08...A	0800	6.6	--	--	19.0	--	--	--	--	1400
15...A	0825	8.3	--	--	21.0	--	--	--	--	600
16...	1050	10	493	--	--	1.3	--	--	17	--
16...	1200	10	501	8.0	23.0	--	10.7	124	--	--
22...A	0850	8.8	--	--	22.0	--	--	--	--	950
SEP 10...	0850	6.4	--	--	--	12	--	--	17	--
10...	1000	6.4	600	7.8	18.0	--	6.4	--	--	--

A Chemical-quality samples collected by Santa Clara Valley Water District.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued

11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

[illegible][illegible]

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, 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,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, ORTHOPH OSPHATE DISSOL. (MG/L AS P)
NOV 20...	.09	.05	.34	.27	.43	.32	1.1	.00	.01
JAN 03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
11...	.02	.04	1.1	.96	1.1	1.0	2.7	.15	.11
12...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
FEB 19...	.16	.10	1.5	.69	1.7	.79	3.0	.57	.16
19...	--	--	--	--	--	--	--	--	--
MAR 05...	.07	.07	.75	.51	.82	.58	1.9	.09	.08
06...	--	--	--	--	--	--	--	--	--
MAY 06...	.12	.04	.98	.55	1.1	.59	--	.05	.00
06...	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
16...	.04	.04	.60	--	.64	--	1.9	.03	.00
16...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
SEP 10...	.03	.01	.68	.46	.71	.47	2.3	.07	.01
10...	--	--	--	--	--	--	--	--	--

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV 20...	1400	--	--	--	--	150	--	--
JAN 11...	1810	--	--	--	--	120	--	--
FEB 19...	0145	--	--	--	--	110	--	--
19...	1205	50	90	1	14	--	0	0
MAR 05...	2300	--	--	--	--	90	--	--
MAY 06...	1215	--	--	--	--	110	--	--
JUL 16...	1050	--	--	--	--	140	--	--
SEP 10...	0850	0	3900	2	8	150	1	1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 20...	--	--	--	--	--	<10	--	--	--
JAN 11...	--	--	--	--	--	60	--	--	--
FEB 19...	--	--	--	--	--	30	--	--	--
19...	0	60	30	3	20	--	11000	3	15
MAR 05...	--	--	--	--	--	30	--	--	--
MAY 06...	--	--	--	--	--	<10	--	--	--
JUL 16...	--	--	--	--	--	<10	--	--	--
SEP 10...	0	38	20	0	19	20	9800	4	10

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued

11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

[illegible]

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
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 mi<sup>2</sup> (49.5 km<sup>2</sup>).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1978 to current year.

BIOLOGICAL DATA: Water year 1978.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)	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)
MAR 19...	0915	301	8.0	10.0	11.0	K16	K12	140	25	33	14	16
MAY 30...	0930	470	7.8	11.5	10.0	62	49	230	58	58	20	23
SEP 24...	1430	565	7.8	19.0	10.1	89	195	--	--	--	--	--
24...	1431	--	--	--	--	--	--	--	--	--	--	--

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)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
MAR 19...	20	.6	1.2	120	40	11	.1	18	203	.50	.30	<.01
MAY 30...	18	.7	1.5	170	71	14	.2	19	311	.44	.24	<.01
SEP 24...	--	--	--	--	--	--	--	17	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--

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)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (MG/L AS AL)	ARSENIC, DIS-SOLVED (MG/L AS AS)	CADMIUM, DIS-SOLVED (MG/L AS CD)
MAR 19...	.00	.01	.47	.36	.47	.37	.09	.03	.02	--	--	--
MAY 30...	.04	.03	.59	.37	.63	.40	.07	.06	.04	--	--	--
SEP 24...	.01	.00	.26	.20	.27	.20	--	--	--	10	1	<1
24...	--	--	--	--	--	--	--	--	--	70	<10	<1

DATE	CHROMIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	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)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR 19...	--	--	--	--	--	--	--	--	--	--	--
MAY 30...	--	--	--	--	--	--	--	--	--	--	--
SEP 24...	0	<3	1	<10	0	20	.0	<10	4	0	<3
24...	<10	<10	<10	<50	<10	30	<.5	--	<50	<10	<50

A Chemical-quality samples collected by Santa Clara Valley Water District.

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 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
 11168000 LOS GATOS CREEK AT LOS GATOS, CA

LOCATION.--Lat 37°13'03", long 121°59'11", in SE¼ sec.20, T.8 S., R.1 W., Santa Clara County, Hydrologic Unit 18050003, on right bank 0.4 mi (0.6 km) upstream from Main Street bridge, 0.7 mi (1.1 km) southwest of Los Gatos Post Office, and 1.1 mi (1.8 km) downstream from Lexington Dam.

DRAINAGE AREA.--39.1 mi<sup>2</sup> (101.3 km<sup>2</sup>).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water year 1980.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
NOV										
20...	1040	9.2	445	8.2	13.0	12	10.3	--	16	--
JAN										
03... A	0845	.70	--	--	9.0	--	--	--	--	2600
10... A	1145	2.5	--	--	11.0	--	--	--	--	1300
12...	0930	62	217	--	13.0	100	10.1	--	58	--
15... A	1000	16	--	--	13.0	--	--	--	--	3400
22... A	0925	1.4	--	--	9.5	--	--	--	--	1400
29... A	0930	1.4	--	--	10.0	--	--	--	--	1900
FEB										
19...	1545	99	186	7.4	12.0	550	10.1	--	99	--
MAR										
06...	0130	256	262	--	--	110	--	--	39	--
06...	0915	263	266	7.6	11.5	--	10.6	--	--	--
MAY										
06...	1105	19	281	8.0	13.0	36	10.9	103	15	--
JUL										
08... A	0715	28	--	--	13.0	--	--	--	--	2200
15... A	0715	27	--	--	14.0	--	--	--	--	1000
16...	0800	28	292	--	--	12	--	--	16	--
16...	0930	28	286	7.5	13.0	--	10.0	94	--	--
22... A	0725	28	--	--	14.0	--	--	--	--	2000
SEP										
10...	1030	64	331	--	--	11	--	--	21	--
10...	1530	64	--	7.8	19.0	--	8.8	--	--	--
DATE		COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)	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)
NOV										
20...	--	--	--	220	60	55	20	19	23	.6 2.6
JAN										
03...	60	88	--	--	--	--	--	--	--	--
10...	80	140	--	--	--	--	--	--	--	--
12...	--	--	94	15	22	9.5	7.8	15	.4	1.5
15...	750	680	--	--	--	--	--	--	--	--
22...	40	95	--	--	--	--	--	--	--	--
29...	10	60	--	--	--	--	--	--	--	--
FEB										
19...	--	--	81	6	18	8.7	7.2	16	.3	2.0
MAR										
06...	--	--	110	26	27	11	10	16	.4	1.4
06...	--	--	--	--	--	--	--	--	--	--
MAY										
06...	--	--	130	31	32	12	11	15	.4	1.6
JUL										
08...	15	50	--	--	--	--	--	--	--	--
15...	12	50	--	--	--	--	--	--	--	--
16...	--	--	130	27	31	12	11	16	.4	1.6
16...	--	--	--	--	--	--	--	--	--	--
22...	30	100	--	--	--	--	--	--	--	--
SEP										
10...	--	--	150	35	35	14	12	15	.4	2.0
10...	--	--	--	--	--	--	--	--	--	--

A Chemical-quality samples collected by Santa Clara Valley Water District.

11168000 GUADALUPE RIVER BASIN--Continued  
LOS GATOS CREEK AT LOS GATOS, CA--Continued

[illegible]

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

 GUADALUPE RIVER BASIN--Continued  
 11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

		ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)		
DATE	TIME									
NOV 20...	1040	--	--	--	--	80	--	--		
JAN 12...	0930	--	--	--	--	60	--	--		
FEB 19...	1545	80	--	1	--	40	0	--		
MAR 06...	0130	--	--	--	--	60	--	--		
MAY 06...	1105	--	--	--	--	50	--	--		
JUL 16...	0800	--	--	--	--	70	--	--		
SEP 10...	1030	--	--	--	--	70	--	--		
10...	1530	10	5700	2	5	--	0	2		
DATE		CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 20...	--	--	--	--	--	--	<10	--	--	--
JAN 12...	--	--	--	--	--	--	40	--	--	--
FEB 19...	0	--	--	--	1	--	50	--	5	--
MAR 06...	--	--	--	--	--	--	110	--	--	--
MAY 06...	--	--	--	--	--	--	30	--	--	--
JUL 16...	--	--	--	--	--	--	<10	--	--	--
SEP 10...	--	--	--	--	--	--	10	--	--	--
10...	0	29	20	1	25	--	7900	3	20	--
DATE		MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	
NOV 20...	--	--	--	--	--	--	--	--	--	
JAN 12...	--	--	--	--	--	--	--	--	--	
FEB 19...	0	--	--	.0	--	0	--	10	--	
MAR 06...	--	--	--	--	--	--	--	--	--	
MAY 06...	--	--	--	--	--	--	--	--	--	
JUL 16...	--	--	--	--	--	--	--	--	--	
SEP 10...	--	--	--	--	--	--	--	--	--	
10...	230	200	.0	.02	0	0	60	31		



## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
 11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 20...	1040	7.2	.2	--	--	--	--	--	--	--
JAN 12...	0930	7.6	2.3	--	--	--	--	--	--	--
FEB 19...	1545	5.0	3.7	.0	.00	.00	.0	.00	.00	.00
MAR 06...	0915	6.4	.9	--	--	--	--	--	--	--
MAY 06...	1105	6.1	--	--	--	--	--	--	--	--
JUL 16...	0930	3.1	.2	--	--	--	--	--	--	--
SEP 10...	1530	6.7	.3	.0	.00	.00	.0	.00	.00	.00

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV 20...	--	--	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	--	--	--	--	--
FEB 19...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR 06...	--	--	--	--	--	--	--	--	--	--
MAY 06...	--	--	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--
SEP 10...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 20...	--	--	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	--	--	--	--	--
FEB 19...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAR 06...	--	--	--	--	--	--	--	--	--	--
MAY 06...	--	--	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--
SEP 10...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
 11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA

LOCATION.--Lat 37°15'07", long 121°57'48", in Rinconada de Los Gatos Grant, Santa Clara County, Hydrologic Unit 18050003, at bridge on Lark Avenue, 1800 ft (549 m) downstream from Vasona Dam, and 2 mi (3 km) northeast of Los Gatos Post Office.

DRAINAGE AREA.--43.3 mi<sup>2</sup> (112.1 km<sup>2</sup>).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
NOV										
20...	0905	10	446	7.5	13.5	1.8	9.5	--	16	--
JAN										
03...	0825	24	--	--	11.0	--	--	--	--	2500
10...	1200	24	--	--	12.0	--	--	--	--	7000
12...	0810	211	347	7.2	12.5	37	10.2	--	23	--
15...	1050	36	--	--	14.0	--	--	--	--	14000
22...	0945	16	--	--	11.0	--	--	--	--	1800
29...	0955	10	--	--	11.0	--	--	--	--	1300
FEB										
19...	1730	294	170	7.6	12.5	730	10.2	--	78	--
MAR										
06...	0745	369	271	7.3	12.0	110	10.6	--	28	--
MAY										
06...	1010	23	316	8.2	16.5	9.0	9.9	101	12	--
JUL										
08...	0900	40	--	--	17.0	--	--	--	--	13000
15...	0900	30	--	--	13.0	--	--	--	--	12000
16...	0845	30	298	7.4	16.5	13	9.2	94	17	--
22...	0745	28	--	--	13.0	--	--	--	--	4600
SEP										
10...	1700	74	318	7.8	19.0	4.4	8.8	--	28	--

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI (COLS. PER 100 ML)	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)
NOV										
20...	--	--	230	69	57	21	18	14	.5	2.5
JAN										
03...	280	250	--	--	--	--	--	--	--	--
10...	870	550	--	--	--	--	--	--	--	--
12...	--	--	170	38	41	16	15	16	.5	2.0
15...	3600	4600	--	--	--	--	--	--	--	--
22...	510	180	--	--	--	--	--	--	--	--
29...	350	100	--	--	--	--	--	--	--	--
FEB										
19...	--	--	73	10	16	8.1	6.9	17	.4	2.1
MAR										
06...	--	--	120	26	28	11	11	17	.4	1.5
MAY										
06...	--	--	150	32	36	15	13	16	.5	1.6
JUL										
08...	110	70	--	--	--	--	--	--	--	--
15...	170	130	--	--	--	--	--	--	--	--
16...	--	--	140	16	33	13	11	15	.4	1.7
22...	180	140	--	--	--	--	--	--	--	--
SEP										
10...	--	--	150	25	35	14	12	15	.4	1.9

A Chemical-quality samples collected by Santa Clara Valley Water District.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
 11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

DATE	ALKA- LITY (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)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV 20...	160	87	13	.2	8.2	304	.41	8.21	.18	.18
JAN 03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
12...	130	48	15	.1	11	230	.31	131	.80	.77
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
FEB 19...	63	11	7.4	.1	14	108	.15	85.7	1.1	1.0
MAR 06...	89	37	8.4	.2	14	167	.23	166	.53	.44
MAY 06...	120	36	10	.2	16	201	.27	12.5	.19	.20
JUL 08...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
16...	120	37	8.7	.3	12	190	.26	15.4	.28	.25
22...	--	--	--	--	--	--	--	--	--	--
SEP 10...	120	40	9.3	.2	12	197	.27	39.4	.10	.08

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)
NOV 20...	.16	.12	.45	.46	.61	.58	.79	.02	.02
JAN 03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
12...	.14	.14	1.2	.73	1.3	.87	2.1	.12	.04
15...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
FEB 19...	.26	.06	2.7	.73	3.0	.79	4.1	.63	.08
MAR 06...	.04	.01	1.2	.55	1.2	.56	1.7	.11	.03
MAY 06...	.13	.06	1.4	.44	1.5	.50	1.7	.03	.00
JUL 08...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
16...	.08	.04	.75	.70	.83	.74	1.1	.06	.00
22...	--	--	--	--	--	--	--	--	--
SEP 10...	.02	.04	.54	.26	.56	.30	.66	.04	.04

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV 20...	0905	--	--	--	--	80	--	--
JAN 12...	0810	--	--	--	--	60	--	--
FEB 19...	1730	50	640	1	5	50	0	0
MAR 06...	0745	--	--	--	--	50	--	--
MAY 06...	1010	--	--	--	--	50	--	--
JUL 16...	0845	--	--	--	--	70	--	--
SEP 10...	1700	0	3400	2	4	70	0	2

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 20...	--	--	--	--	--	10	--	--	--
JAN 12...	--	--	--	--	--	50	--	--	--
FEB 19...	0	20	10	1	18	160	7300	0	85
MAR 06...	--	--	--	--	--	70	--	--	--
MAY 06...	--	--	--	--	--	10	--	--	--
JUL 16...	--	--	--	--	--	10	--	--	--
SEP 10...	0	21	20	0	19	10	10000	4	40

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV 20...	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	--	--	--
FEB 19...	0	190	.0	.03	0	0	10	56
MAR 06...	--	--	--	--	--	--	--	--
MAY 06...	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--
SEP 10...	130	350	.0	.04	0	0	10	48

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
 11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 20...	0905	11	.0	--	--	--	--	--	--	--
JAN 12...	0810	5.9	--	--	--	--	--	--	--	--
FEB 19...	1730	7.1	6.1	.0	.00	.00	.0	.00	.01	.02
MAR 06...	0745	11	.8	--	--	--	--	--	--	--
MAY 06...	1010	7.2	.4	--	--	--	--	--	--	--
JUL 16...	0845	2.7	.5	--	--	--	--	--	--	--
SEP 10...	1700	4.1	.3	.0	.00	.00	.0	.00	.00	.00

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV 20...	--	--	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	--	--	--	--	--
FEB 19...	.01	.00	.00	.00	.00	.00	.00	.01	.00	.00
MAR 06...	--	--	--	--	--	--	--	--	--	--
MAY 06...	--	--	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--
SEP 10...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 20...	--	--	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	--	--	--	--	--
FEB 19...	.00	.00	.00	.00	.00	0	.00	.02	.00	.01
MAR 06...	--	--	--	--	--	--	--	--	--	--
MAY 06...	--	--	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--
SEP 10...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
 11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, CA

LOCATION.--Lat 37°18'45", long 121°54'12", in San Juan Bautista Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank 100 ft (30 m) upstream from Lincoln Avenue bridge, 0.6 mi (1.0 km) downstream from Dry Creek.

DRAINAGE AREA.--48.4 mi<sup>2</sup> (125.4 km<sup>2</sup>).

PERIOD OF RECORD.--

CHEMICAL ANALYSIS: Water year 1980.

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
DATE	TIME									
NOV 20...	1515	.70	407	8.2	11.5	6.6	11.1	--	13	--
JAN 03...	0915	.50	--	--	10.0	--	--	--	--	13000
10...	0810	6.8	--	--	12.0	--	--	--	--	54000
12...	1350	110	315	7.1	14.0	34	9.8	--	22	--
15...	0845	6.6	--	--	13.0	--	--	--	--	160000
29...	0815	1.2	--	--	7.0	--	--	--	--	1100
FEB 20...	0830	202	192	7.0	12.0	580	10.4	--	55	--
MAR 06...	1330	32	272	7.8	12.5	99	10.3	--	39	--
MAY 06...	0910	1.0	323	8.2	15.0	1.3	10.1	99	13	--
DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, (COLS. PER 100 ML)	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)
NOV 20...	--	--	150	39	35	15	28	29	1.0	2.5
JAN 03...	3100	220	--	--	--	--	--	--	--	--
10...	2700	6000	--	--	--	--	--	--	--	--
12...	--	--	130	37	31	13	15	20	.6	2.1
15...	7100	69000	--	--	--	--	--	--	--	--
29...	120	60	--	--	--	--	--	--	--	--
FEB 20...	--	--	79	12	17	8.9	8.7	19	.4	2.1
MAR 06...	--	--	110	24	27	11	10	16	.4	1.5
MAY 06...	--	--	110	36	24	12	26	34	1.1	1.9
DATE	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 SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV 20...	110	53	35	.2	9.8	246	.33	.46	.33	.33
JAN 03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
12...	94	42	18	.1	10	192	.26	57.0	.87	.85
15...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
FEB 20...	67	15	10	.1	15	122	.17	66.5	1.1	1.1
MAR 06...	89	36	8.8	.2	14	164	.22	14.2	.54	.51
MAY 06...	73	38	31	.1	9.9	187	.25	.50	.04	.02

A Chemical-quality samples collected by Santa Clara Valley Water District.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN-Continued  
 11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, 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,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, ORTHOPH OSPHATE DISSOL. (MG/L AS P)
NOV 20...	.09	.07	.34	.38	.43	.45	.76	.02	.02
JAN 03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
12...	.08	.07	1.2	.78	1.3	.85	2.2	.14	.08
15...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
FEB 20...	.23	.04	1.5	.43	1.7	.47	2.8	.50	.06
MAR 06...	.07	.01	.70	.46	.77	.47	1.3	.12	.04
MAY 06...	.10	.03	.83	.55	.93	.58	.97	.01	.00

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV 20...	1515	--	--	--	--	110	--	--
JAN 12...	1350	--	--	--	--	70	--	--
FEB 20...	0830	170	60	1	5	50	0	1
MAR 06...	1330	--	--	--	--	60	--	--
MAY 06...	0910	--	--	--	--	160	--	--

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 20...	--	--	--	--	--	10	--	--	--
JAN 12...	--	--	--	--	--	40	--	--	--
FEB 20...	0	20	20	2	29	160	6200	6	150
MAR 06...	--	--	--	--	--	20	--	--	--
MAY 06...	--	--	--	--	--	10	--	--	--

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV 20...	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	--	--	--
FEB 20...	0	240	.1	.03	0	0	20	100
MAR 06...	--	--	--	--	--	--	--	--
MAY 06...	--	--	--	--	--	--	--	--

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN --Continued  
11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)
NOV 20...	1515	6.5	.0	--	--	--	--	--	--
JAN 12...	1350	6.7	--	--	--	--	--	--	--
FEB 20...	0830	6.2	4.0	.0	.00	.00	.0	.00	.00
MAR 06...	1330	6.9	.8	--	--	--	--	--	--
MAY 06...	0910	4.2	.1	--	--	--	--	--	--

[illegible][illegible]



## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
11169000 GUADALUPE RIVER AT SAN JOSE, CA

LOCATION.--Lat 37°20'04", long 121°53'54", Santa Clara County, Hydrologic Unit 18050003, on right bank at San Jose, 100 ft (30 km) downstream from Los Gatos Creek.

DRAINAGE AREA. 144 mi<sup>2</sup> (373 km<sup>2</sup>).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
NOV										
20...	0915	.33	332	--	--	18	--	--	32	--
20...	1630	.24	--	7.6	7.5	--	5.6	--	--	--
JAN										
03...A	0930	2.2	--	--	12.0	--	--	--	--	24000
10...A	0825	22	--	--	14.0	--	--	--	--	130000
12...	1500	221	300	7.4	15.0	28	9.1	--	27	--
15...A	0900	232	--	--	13.0	--	--	--	--	220000
22...A	0820	12	--	--	10.0	--	--	--	--	20000
29...A	0830	3.0	--	--	9.0	--	--	--	--	140000
FEB										
19...	0900	7900	172	6.8	12.5	800	9.7	--	280	--
MAR										
06...	1445	302	336	7.8	13.0	57	10.0	--	25	--
MAY										
06...	0735	.69	826	8.2	16.5	5.2	7.4	75	29	--
JUL										
08...A	0830	.33	--	--	18.0	--	--	--	--	200000
15...A	0800	.33	--	--	20.0	--	--	--	--	45000
16...	1345	.24	750	8.3	21.5	6.9	15.6	173	51	--
22...A	0830	.39	--	--	20.0	--	--	--	--	24000
SEP										
10...	0730	.53	869	7.8	18.0	4.0	6.2	--	39	--

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV										
20...	--	--	130	8	28	14	22	40	.8	2.6
20...	--	--	--	--	--	--	--	--	--	--
JAN										
03...	1600	530	--	--	--	--	--	--	--	--
10...	9000	28000	--	--	--	--	--	--	--	--
12...	--	--	130	30	26	15	14	19	.5	2.1
15...	7700	16000	--	--	--	--	--	--	--	--
22...	2500	850	--	--	--	--	--	--	--	--
29...	30000	8000	--	--	--	--	--	--	--	--
FEB										
19...	--	--	68	6	13	8.7	7.6	19	.4	2.3
MAR										
06...	--	--	150	20	27	20	11	14	.4	1.3
MAY										
06...	--	--	370	60	64	51	51	23	1.2	2.7
JUL										
08...	17000	3100	--	--	--	--	--	--	--	--
15...	750	250	--	--	--	--	--	--	--	--
16...	--	--	320	39	52	46	48	24	1.2	2.7
22...	1100	320	--	--	--	--	--	--	--	--
SEP										
10...	--	--	350	43	59	50	55	25	1.3	3.8

A Chemical-quality samples collected by Santa Clara Valley Water District.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
 11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

DATE	ALKA- LITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV										
20...	120	29	23	.1	12	206	.28	.18	.65	.68
20...	--	--	--	--	--	--	--	--	--	--
JAN										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
12...	97	36	18	.1	12	186	.25	111	.99	.99
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
FEB										
19...	62	9.5	8.8	.2	12	104	.14	2220	.93	.93
MAR										
06...	130	24	11	.1	17	192	.26	157	.80	.56
MAY										
06...	310	68	52	.2	13	495	.67	.92	1.6	1.4
JUL										
08...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
16...	280	69	44	.3	7.3	439	.60	.28	.29	.31
22...	--	--	--	--	--	--	--	--	--	--
SEP										
10...	310	76	55	.2	15	506	.69	.72	1.2	1.2
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	
NOV										
20...	.09	.06	.64	.49	.73	.55	1.4	.13	.13	
20...	--	--	--	--	--	--	--	--	--	
JAN										
03...	--	--	--	--	--	--	--	--	--	
10...	--	--	--	--	--	--	--	--	--	
12...	.10	.06	1.2	1.0	1.3	1.1	2.3	.23	.09	
15...	--	--	--	--	--	--	--	--	--	
22...	--	--	--	--	--	--	--	--	--	
29...	--	--	--	--	--	--	--	--	--	
FEB										
19...	.24	.09	4.5	.59	4.7	.68	5.6	2.80	.20	
MAR										
06...	.04	.04	.83	.71	.87	.75	1.7	.10	.05	
MAY										
06...	.04	.03	1.4	.85	1.4	.88	3.0	.13	.04	
JUL										
08...	--	--	--	--	--	--	--	--	--	
15...	--	--	--	--	--	--	--	--	--	
16...	.06	.01	1.3	.66	1.4	.67	1.7	.22	.05	
22...	--	--	--	--	--	--	--	--	--	
SEP										
10...	.04	.03	.90	.66	.94	.69	2.1	.22	.16	

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
 11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV 20...	0915	--	--	--	--	120	--	--
JAN 12...	1500	--	--	--	--	100	--	--
FEB 19...	0900	60	700	2	8	70	0	2
MAR 06...	1445	--	--	--	--	80	--	--
MAY 06...	0735	--	--	--	--	220	--	--
JUL 16...	1345	--	--	--	--	220	--	--
SEP 10...	0730	10	3100	4	16	240	0	2

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 20...	--	--	--	--	--	80	--	--	--
JAN 12...	--	--	--	--	--	80	--	--	--
FEB 19...	0	50	25	2	44	190	13000	0	1000
MAR 06...	--	--	--	--	--	30	--	--	--
MAY 06...	--	--	--	--	--	20	--	--	--
JUL 16...	--	--	--	--	--	30	--	--	--
SEP 10...	0	43	30	2	21	10	10000	2	40

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV 20...	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	--	--	--
FEB 19...	10	400	.0	1.7	0	0	190	810
MAR 06...	--	--	--	--	--	--	--	--
MAY 06...	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--
SEP 10...	0	540	.0	10	0	0	10	43

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GUADALUPE RIVER BASIN--Continued  
 11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 20...	1630	8.5	.2	--	--	--	--	--	--	--
JAN 12...	1500	7.3	.9	--	--	--	--	--	--	--
FEB 19...	0900	8.2	9.2	.0	.00	.00	.6	.04	.04	.11
MAR 06...	1445	8.8	.8	--	--	--	--	--	--	--
MAY 06...	0735	19	.6	--	--	--	--	--	--	--
JUL 16...	1345	9.3	--	--	--	--	--	--	--	--
SEP 10...	0730	9.3	.8	.0	.00	.00	.1	.01	.00	.00

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
NOV 20...	--	--	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	--	--	--	--	--
FEB 19...	.07	.02	.00	.00	.00	.02	.00	.02	.01	.00
MAR 06...	--	--	--	--	--	--	--	--	--	--
MAY 06...	--	--	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--
SEP 10...	.03	.00	.00	.00	.00	.00	.00	.01	.00	.00

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 20...	--	--	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	--	--	--	--	--
FEB 19...	.00	.00	.00	.00	.00	0	.00	.07	.00	.03
MAR 06...	--	--	--	--	--	--	--	--	--	--
MAY 06...	--	--	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--
SEP 10...	.00	.00	.00	.00	.00	0	.00	.00	.00	.01

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## COYOTE CREEK BASIN

11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM NEAR MADRONE, CA

LOCATION.--Lat 37°09'54", long 121°37'56", in southeast corner of La Laguna Seca Grant, Santa Clara County, Hydrologic Unit 18050003, on left bank 500 ft (152 m) downstream from release at Leroy Anderson Dam, 2.3 mi (3.7 km) northeast of Madrone.

DRAINAGE AREA.--195 mi<sup>2</sup> (505 km<sup>2</sup>).

PERIOD OF RECORD.--

CHEMICAL ANALYSIS: Water year 1980.

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
DATE	TIME									
NOV 21...	0910	12	382	8.4	15.0	5.6	10.0	--	--	--
JAN 03...A	1125	12	--	--	12.0	--	--	--	230	13
10...A	0945	12	--	--	11.0	--	--	--	180	32
11...A	0945	159	419	7.8	11.5	17	10.8	--	--	--
16...A	0845	12	--	--	12.0	--	--	--	8500	900
23...A	0840	12	--	--	11.0	--	--	--	600	90
30...A	0825	8.8	--	--	11.0	--	--	--	200	15
FEB 21...	0800	3.3	342	7.0	11.5	410	10.0	--	--	--
MAR 07...	0930	4.3	296	7.5	11.5	120	10.5	--	--	--
MAY 07...	1205	40	271	7.6	12.0	20	10.7	99	--	--
JUL 09...A	0805	60	--	--	13.0	--	--	--	24000	10
16...A	0800	60	--	--	13.0	--	--	--	25000	2
17...	0745	59	281	7.4	12.0	18	10.4	96	--	--
22...A	0945	60	--	--	13.0	--	--	--	6000	10
SEP 09...	1440	60	289	7.5	13.0	24	10.2	96	--	--
	STREP- TOCOCCHI FECAL, (COLS. PER 100 ML)	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)
NOV 21...	--	170	22	39	18	20	30	.7	2.4	150
JAN 03...	16	--	--	--	--	--	--	--	--	--
10...	60	--	--	--	--	--	--	--	--	--
11...	--	190	7	42	20	23	21	.7	2.0	180
16...	2000	--	--	--	--	--	--	--	--	--
23...	60	--	--	--	--	--	--	--	--	--
30...	25	--	--	--	--	--	--	--	--	--
FEB 21...	--	160	57	34	17	14	16	.5	1.9	98
MAR 07...	--	120	27	27	13	12	18	.5	1.7	94
MAY 07...	--	120	21	28	12	15	21	.6	1.9	98
JUL 09...	30	--	--	--	--	--	--	--	--	--
16...	20	--	--	--	--	--	--	--	--	--
17...	--	120	17	27	12	13	19	.5	2.0	100
22...	20	--	--	--	--	--	--	--	--	--
SEP 09...	--	120	7	27	12	13	19	.5	2.0	110
	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, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	
NOV 21...	45	13	.2	8.0	236	.32	7.65	.11	.08	
JAN 03...	--	--	--	--	--	--	--	--	--	
10...	--	--	--	--	--	--	--	--	--	
11...	46	15	.2	7.6	265	.36	114	.16	.14	
16...	--	--	--	--	--	--	--	--	--	
23...	--	--	--	--	--	--	--	--	--	
30...	--	--	--	--	--	--	--	--	--	
FEB 21...	71	8.5	.2	14	223	.30	1.99	.67	.67	
MAR 07...	46	9.2	.2	10	178	.24	2.07	.46	.46	
MAY 07...	29	9.2	.2	11	167	.23	18.0	.36	.40	
JUL 09...	--	--	--	--	--	--	--	--	--	
16...	--	--	--	--	--	--	--	--	--	
17...	29	11	.3	11	168	.23	26.8	.56	.56	
22...	--	--	--	--	--	--	--	--	--	
SEP 09...	29	9.7	.1	11	172	.23	27.9	.51	.53	

A Chemical-quality samples collected by Santa Clara Valley Water District.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

COYOTE CREEK BASIN--Continued  
 11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM NEAR MADRONE, 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,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL. (MG/L AS P)
NOV 21...	.11	.04	.99	.42	1.1	.46	1.2	.01	.01
JAN 03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
11...	.00	.00	.91	.55	.91	.55	1.1	.04	.01
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
FEB 21...	.16	.07	2.7	.57	2.9	.64	3.6	.64	.04
MAR 07...	.07	.01	.65	.55	.72	.56	1.2	.09	.04
MAY 07...	.08	.03	.82	.42	.90	.45	1.3	.04	.03
JUL 09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
17...	.03	.01	.93	.70	.96	.71	1.5	.08	.02
22...	--	--	--	--	--	--	--	--	--
SEP 09...	.00	.02	.50	.43	.50	.45	1.0	.07	.05

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECov. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECov. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV 21...	0910	--	--	--	--	120	--	--
JAN 11...	0945	--	--	--	--	100	--	--
FEB 21...	0800	170	90	1	10	90	0	0
MAR 07...	0930	--	--	--	--	90	--	--
MAY 07...	1205	--	--	--	--	110	--	--
JUL 17...	0745	--	--	--	--	110	--	--
SEP 09...	1440	20	3000	2	6	140	0	2

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECov. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECov. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECov. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECov. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECov. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 21...	--	--	--	--	--	70	--	--	--
JAN 11...	--	--	--	--	--	<10	--	--	--
FEB 21...	0	30	25	2	20	170	9500	0	35
MAR 07...	--	--	--	--	--	20	--	--	--
MAY 07...	--	--	--	--	--	50	--	--	--
JUL 17...	--	--	--	--	--	50	--	--	--
SEP 09...	0	13	20	2	21	40	8000	2	10

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

COYOTE CREEK BASIN--Continued  
11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM NEAR MADRONE, CA--Continued

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MATERIAL (UG/G)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MATERIAL (UG/G AS HG)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, TOTAL IN BOT-TOM MATERIAL (UG/G)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MATERIAL (UG/G AS ZN)
NOV 21...	--	--	--	--	--	--	--	--
JAN 11...	--	--	--	--	--	--	--	--
FEB 21...	10	610	.0	.13	0	0	10	39
MAR 07...	--	--	--	--	--	--	--	--
MAY 07...	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--
SEP 09...	30	700	.0	.04	0	0	10	23

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)	NAPHTHALENES, POLY-CHLOR. TOTAL (UG/L)	PCB TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 21...	0910	--	6.3	--	--	--	--	--	--	--	--
JAN 11...	0945	--	7.3	--	--	--	--	--	--	--	--
FEB 21...	0800	--	8.6	3.6	.0	.00	.00	.0	.00	.00	.00
MAR 07...	0930	--	14	.6	--	--	--	--	--	--	--
MAY 07...	1205	--	9.8	.1	--	--	--	--	--	--	--
JUL 17...	0745	--	5.2	.2	--	--	--	--	--	--	--
SEP 09...	1440	6.8	6.8	.4	.0	.00	.00	.0	.00	.00	.00

DATE	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN, TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE, TOTAL (UG/L)	LINDANE, TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)
NOV 21...	--	--	--	--	--	--	--	--	--	--
JAN 11...	--	--	--	--	--	--	--	--	--	--
FEB 21...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR 07...	--	--	--	--	--	--	--	--	--	--
MAY 07...	--	--	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--	--	--
SEP 09...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE, TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T, TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 21...	--	--	--	--	--	--	--	--	--	--
JAN 11...	--	--	--	--	--	--	--	--	--	--
FEB 21...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAR 07...	--	--	--	--	--	--	--	--	--	--
MAY 07...	--	--	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--	--	--
SEP 09...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

COYOTE CREEK BASIN--Continued  
11171500 COYOTE CREEK NEAR EDENVALE, CALOCATION.--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 Edenville, and 7 mi (11 km) south of San Jose.  
DRAINAGE AREA.--229 mi<sup>2</sup> (593 km<sup>2</sup>).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)
JAN										
03...A	1055	.00	--	--	11.0	--	--	--	7000	250
10...A	0910	.80	--	--	15.0	--	--	--	100000	8500
11...	1015	.01	146	--	--	620	--	--	--	--
11...	1700	.01	189	6.7	13.5	--	3.8	--	--	--
16...A	0815	28	--	--	13.5	--	--	--	48000	3300
23...A	0810	.00	--	--	7.0	--	--	--	2200	120
FEB										
20...	1045	331	270	7.2	13.5	210	9.0	--	--	--
MAR										
07...	0740	41	513	7.4	12.0	28	8.8	--	--	--
JUL										
16...A	0730	3.4	--	--	21.0	--	--	--	1700	110
17...	1140	2.0	406	--	--	4.4	--	--	--	--
17...	1310	2.0	400	7.5	22.0	--	6.6	74	--	--
SEP										
10...	1200	.50	403	7.4	19.0	.50	6.0	--	--	--

DATE	STREP- TOCOCCL FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)
JAN										
03...	110	--	--	--	--	--	--	--	--	--
10...	20000	--	--	--	--	--	--	--	--	--
11...	--	69	0	13	8.9	5.1	24	.3	2.4	70
11...	--	--	--	--	--	--	--	--	--	--
16...	1900	--	--	--	--	--	--	--	--	--
23...	70	--	--	--	--	--	--	--	--	--
FEB										
20...	--	120	22	21	17	11	16	.4	2.9	100
MAR										
07...	--	230	27	38	32	21	17	.6	2.8	200
JUL										
16...	560	--	--	--	--	--	--	--	--	--
17...	--	170	20	35	20	18	19	.6	1.5	150
17...	--	--	--	--	--	--	--	--	--	--
SEP										
10...	--	180	23	37	22	21	20	.7	1.8	160

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
JAN									
03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
11...	6.5	3.3	.1	11	97	.13	.00	.95	.95
11...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
FEB									
20...	20	12	.2	23	175	.24	156	1.7	1.7
MAR									
07...	43	22	.2	20	313	.43	34.6	3.1	3.1
JUL									
16...	--	--	--	--	--	--	--	--	--
17...	39	13	.3	8.4	230	.31	1.24	1.0	1.0
17...	--	--	--	--	--	--	--	--	--
SEP									
10...	39	15	.2	12	249	.34	.34	.96	.95

A Chemical-quality samples collected by Santa Clara Valley Water District.



## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

COYOTE CREEK BASIN--Continued  
11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
JAN 11...	1015	--	--	--	--	50	--	--
FEB 20...	1045	60	0	3	8	90	0	0
MAR 07...	0740	--	--	--	--	120	--	--
JUL 17...	1140	--	--	--	--	120	--	--
SEP 10...	1200	10	1600	1	6	110	1	1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
JAN 11...	--	--	--	--	--	70	--	--	--
FEB 20...	0	10	5	3	4	130	150	0	5
MAR 07...	--	--	--	--	--	20	--	--	--
JUL 17...	--	--	--	--	--	10	--	--	--
SEP 10...	0	58	40	1	23	30	6100	2	150

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JAN 11...	--	--	--	--	--	--	--	--
FEB 20...	10	190	.1	.08	0	0	10	8
MAR 07...	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--
SEP 10...	10	290	.0	.14	0	--	50	104

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	ODE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
JAN 11...	1700	6.1	--	--	--	--	--	--	--	--
FEB 20...	1045	12	2.3	.0	.00	.00	.0	.01	.04	.04
MAR 07...	0740	12	1.2	--	--	--	--	--	--	--
JUL 17...	1310	4.5	.1	--	--	--	--	--	--	--
SEP 10...	1200	4.5	.1	.0	.00	.00	.0	.00	.00	.00

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

COYOTE CREEK BASIN--Continued  
 11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

DATE	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)
JAN 11...	--	--	--	--	--	--	--	--	--	--
FEB 20...	.05	.00	.00	.02	.00	.00	.00	.00	.00	.00
MAR 07...	--	--	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--	--	--
SEP 10...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JAN 11...	--	--	--	--	--	--	--	--	--	--
FEB 20...	.00	.00	.00	.02	.00	0	.00	.98	.00	.00
MAR 07...	--	--	--	--	--	--	--	--	--	--
JUL 17...	--	--	--	--	--	--	--	--	--	--
SEP 10...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA * ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA * ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH OSPATE DISSOL. (MG/L AS P)
JAN 03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
11...	.15	.03	2.4	1.1	2.5	1.1	3.5	.65	.13
11...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
FEB 20...	.16	.09	1.7	.82	1.9	.91	3.6	.59	.23
MAR 07...	.04	.04	1.2	.95	1.2	.99	4.3	.15	.12
JUL 16...	--	--	--	--	--	--	--	--	--
17...	.03	.01	2.2	1.2	2.2	1.2	3.2	.08	.01
17...	--	--	--	--	--	--	--	--	--
SEP 10...	.03	.05	.45	.35	.48	.40	1.4	.03	.00

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SAN LORENZO CREEK BASIN  
CULL CREEK TRIBUTARY NO. 9 ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°47'15", long 122°03'45", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, 100 ft (30 m) upstream of Cull Creek and 5.8 mi (9.3 km) upstream from Cull Creek Dam.

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water year 1980.

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						
23...	1515	--	.11	1200	.36	98
23...	1655	--	.26	1200	.84	98
24...	0950	10.5	1.4	448	1.7	93
24...	1115	9.5	3.0	2330	19	80
24...	1250	9.5	4.1	4110	45	70
24...	1415	10.0	9.0	8550	208	80
24...	1540	--	20	7700	416	75
25...	0830	--	3.5	993	9.4	79
JAN						
15...	1115	12.5	4.8	393	5.1	50
FEB						
15...	0935	--	1.1	878	2.6	96
15...	1005	12.0	1.1	606	1.8	95
15...	1220	12.0	1.2	3490	11	81
15...	1300	11.5	7.3	11000	217	91
15...	1335	11.5	4.5	7800	95	85
15...	1540	11.5	.90	1210	2.9	92

## CULL CREEK TRIBUTARY NO. 8 ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°47'13", long 122°03'42", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, 150 ft (46 m) upstream from mouth of Cull Creek tributary No. 9 and 5.7 mi (9.2 km) upstream from Cull Creek Dam.

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water year 1980.

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						
23...	1640	--	.14	839	.32	97
24...	1030	9.0	1.1	520	1.5	66
24...	1150	9.5	4.2	1190	13	69
24...	1330	10.0	5.6	3320	50	67
24...	1505	10.0	13	9640	338	70
24...	1610	10.0	50	7890	1070	76
JAN						
15...	1215	--	4.1	770	8.5	63
15...	1515	12.5	3.8	1070	11	66
FEB						
15...	0930	--	1.2	152	.49	80
15...	1045	12.5	.59	62	.10	81
15...	1225	12.0	1.6	1600	6.9	93
15...	1345	11.0	3.2	2090	18	79
15...	1500	11.5	1.7	794	3.6	92

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## SAN LORENZO BASIN--Continued

CULL CREEK TRIBUTARY NO. 7 ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°46'43", long 122°04'00", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, 20 ft (6 m) upstream from confluence with Cull Creek, 5.2 mi (8.4 km) upstream from Cull Creek Dam.

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water year 1980.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, TOTAL (MG/L)	SEDI- MENT DISCH. TOTAL, SUSP.+ BEDLOAD (T/DAY)	SED. TOTAL, SIEVE DIAM. % FINER THAN .062 MM
DEC					
23...	1505	.08	152	.03	86
23...	1630	.16	510	.22	84
24...	1020	.82	281	.62	85
24...	1055	1.4	610	2.3	93
24...	1145	2.9	948	7.4	88
24...	1215	2.8	777	5.9	91
24...	1300	2.8	745	5.6	93
24...	1405	9.5	3250	83	81
24...	1500	11	4000	119	86
25...	0815	2.4	550	3.6	94
JAN					
15...	1125	1.6	1350	5.8	68
15...	1250	1.7	1350	6.2	78
15...	1415	1.7	1110	5.1	80
FEB					
15...	0940	.48	359	.47	84
15...	1135	.55	604	.90	89
15...	1215	.62	2200	3.7	81
15...	1225	1.7	9110	42	76
15...	1230	3.2	14200	123	63
15...	1240	4.9	16200	214	70
15...	1250	5.5	13000	193	72
15...	1300	4.5	10400	126	81
15...	1315	2.9	8220	64	67
15...	1400	1.6	2410	10	84
15...	1520	.88	746	1.8	87

CULL CREEK TRIBUTARY NO. 5 ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°45'34", long 122°03'34", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank 20 ft (6 m) upstream from Cull Canyon Road and 3.8 mi (6.1 km) upstream from Cull Creek Dam.

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water year 1980.

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						
23...	1515	--	.13	209	.07	96
24...	1035	--	.68	426	.78	96
24...	1135	--	1.1	1650	4.9	96
24...	1210	--	2.2	2550	15	92
24...	1255	--	4.0	3550	38	91
24...	1345	--	4.3	5770	67	92
24...	1425	--	15	18700	757	83
24...	1500	--	18	15500	753	87
24...	1530	--	16	13400	579	88
24...	1600	9.5	26	20200	1420	81
24...	1630	--	18	18200	885	86
25...	0805	--	6.8	1430	26	87
JAN						
15...	1220	11.5	2.9	1680	13	74
15...	1440	11.5	2.8	1840	14	68
FEB						
15...	1045	11.0	.54	2220	3.2	34
15...	1155	11.0	.86	2130	4.9	37
15...	1300	11.0	4.9	19800	262	72
15...	1400	11.0	3.1	11600	97	70
15...	1550	11.0	.94	7800	20	40

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SAN LORENZO CREEK BASIN--Continued  
CULL CREEK TRIBUTARY NO. 4 ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°45'02", long 122°03'21", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank, 50 ft (15 m) upstream from Cull Canyon Road and 3.2 mi (5.1 km) upstream from Cull Creek Dam.

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water year 1980.

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						
24...	1050	9.5	.11	108	.03	91
24...	1225	--	.90	793	1.9	91
24...	1325	--	1.4	1800	6.8	80
24...	1350	--	2.3	3290	20	76
24...	1415	--	3.8	4060	42	90
24...	1500	--	4.5	4260	52	86
24...	1525	--	4.4	2350	28	88
25...	0750	--	2.2	369	2.2	86
JAN						
15...	1110	--	2.3	384	2.4	59
15...	1430	--	2.0	221	1.2	72
FEB						
15...	1110	12.0	.45	60	.07	81
15...	1210	12.5	.45	510	.62	67
15...	1320	12.0	3.7	3150	31	83
15...	1350	12.5	3.7	1770	18	82
15...	1445	12.0	1.9	905	4.6	75
15...	1535	12.0	1.0	617	1.7	47

## CULL CREEK TRIBUTARY NO. 3 ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°44'41", long 122°03'16", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, 150 ft (46 m) downstream from Cull Canyon Road, 2.8 mi (4.5 km) upstream from Cull Creek Dam and 3.7 mi northeast of Castro Valley Post Office.

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water year 1980.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, TOTAL (MG/L)	SEDI- MENT DISCH. TOTAL, SUSP.* BEDLOAD (T/DAY)	SED. TOTAL, SIEVE DIAM. % FINER THAN .062 MM
DEC						
24...	1120	9.5	.33	279	.25	88
24...	1250	--	1.2	1060	3.4	97
24...	1430	--	5.1	6090	84	87
24...	1445	--	5.6	6610	100	91
24...	1630	--	4.6	4120	51	92
25...	0745	--	.85	425	.98	91
JAN						
15...	1130	--	1.3	266	.93	83
15...	1505	--	1.4	637	2.4	68
FEB						
15...	1140	12.5	.57	188	.29	61
15...	1235	12.0	1.0	3260	8.8	45
15...	1415	12.0	2.4	4220	27	78
15...	1500	12.0	1.7	1840	8.4	69
15...	1545	--	1.0	1200	3.2	76

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SAN LORENZO CREEK BASIN--Continued  
CULL CREEK RESERVOIR CULVERT 'C' NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°42'39", long 122°03'14", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank of Cull Creek Reservoir, 0.5 mi (0.8 km) upstream from Cull Creek Dam and 1.9 mi (3.1 km) northeast of Castro Valley Post Office.

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water year 1980.

DATE	TIME	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 15...	1230	6.4	1790	31	65	
DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, TOTAL (MG/L)	SEDI- MENT DISCH. TOTAL, SUSP.+ BEDLOAD (T/DAY)	SED. TOTAL, SIEVE DIAM. % FINER THAN .062 MM
DEC 23...	1445	10.5	.02	184	.01	97
23...	1540	10.5	.43	210	.24	78
23...	1700	--	1.5	724	2.9	67
30...	0910	11.5	.66	101	.18	94
30...	1030	12.0	.02	149	.01	87
FEB 15...	1410	13.5	1.5	261	1.1	93
15...	1515	--	.51	214	.29	90

## CULL CREEK RESERVOIR CULVERT 'B' NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°42'33", long 122°03'19", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on right bank of Cull Creek Reservoir, 0.4 mi (0.6 km) upstream from Cull Creek Dam and 1.9 mi (3.1 km) northeast of Castro Valley Post Office.

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water year 1980.

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, TOTAL (MG/L)	SEDI- MENT DISCH. TOTAL, SUSP.+ BEDLOAD (T/DAY)	SED. TOTAL, SIEVE DIAM. % FINER THAN .062 MM
DEC						
23...	1525	10.0	.23	8550	5.3	100
23...	1630	--	.36	5390	5.2	99
30...	0940	11.5	2.8	6830	52	96
30...	1050	12.0	.76	6840	14	100
FEB						
15...	1115	13.0	.70	2570	4.9	93
15...	1350	--	1.9	8240	42	96
15...	1500	--	3.2	7260	63	91

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN  
 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 years 1979-80

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 FIELD (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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 24...	1045	--	1140	7.6	14.0	9.8	1200	2900	0
DEC 18...	1145	--	1080	8.0	10.0	--	720	4000	--
JUL 30...	1335	.09	600	8.6	18.5	--	--	--	14
AUG 14...	0725	.10	750	8.0	13.0	--	--	--	11
SEP 03...	1045	3.0	860	8.1	14.5	--	--	--	0
24...	1030	.07	730	8.0	14.5	--	--	--	0

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)
OCT 24...	.11	.02	.13	.01	.50	.51	.64	.11
DEC 18...	--	--	--	--	--	--	--	--
JUL 30...	.52	.00	.52	.00	.58	.58	1.1	.12
AUG 14...	.51	.00	.51	.00	.62	.62	1.1	.10
SEP 03...	.54	.00	.54	.03	.51	.54	1.1	.10
24...	.58	.01	.59	.02	.52	.54	1.1	.10

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT 21...	1130	.06	740	7.9	13.0	0	.72

DATE	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)
OCT 21...	.02	.74	.23	.44	.67	1.4	.10

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN--Continued  
TEMESCAL CREEK BELOW HEATHER RIDGE SWIMMING POOL, AT OAKLAND, CA

LOCATION.--Lat 37°50'30", long 122°12'08", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1980.

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 FIELD (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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT									
24...	1130	--	413	7.5	18.5	8.6	<10	5700	3
DEC									
18...	1240	--	255	8.5	14.0	--	K71	420	--
JUL									
07...	1255	--	500	8.0	18.5	--	--	--	16
30...	1523	.02	430	8.2	20.5	--	--	--	3
AUG									
14...	0915	.03	360	7.7	19.0	--	--	--	11
SEP									
03...	1215	--	350	7.9	19.0	--	--	--	2
24...	1110	.02	320	8.1	19.0	--	--	--	0

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)
OCT								
24...	.08	.02	.10	.01	.51	.52	.62	.07
DEC								
18...	--	--	--	--	--	--	--	--
JUL								
07...	.90	.01	.91	.06	2.3	2.4	3.3	.07
30...	1.2	.23	1.4	.22	3.4	3.6	5.0	.08
AUG								
14...	.97	.23	1.2	.12	2.0	2.1	3.3	.08
SEP								
03...	1.0	.30	1.3	.28	2.7	3.0	4.3	.08
24...	.92	.00	.92	.03	2.6	2.6	3.5	.07

## 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 years 1979-80 (discontinued).

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 FIELD (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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT									
11...	1145	--	1010	7.6	15.5	8.6	--	--	0
18...	1220	.05	1010	7.5	15.5	9.6	2900	5100	4
24...	1100	--	930	6.2	14.5	9.6	K1200	5000	0
NOV									
03...	1230	--	--	--	--	--	--	--	1350
DEC									
18...	1155	--	662	7.9	11.0	--	K70	>10000	--
MAY									
28...	1240	--	780	7.9	16.5	--	--	--	31
JUL									
07...	1200	--	860	8.1	14.5	--	--	--	7
30...	1345	.05	715	8.5	17.5	--	--	--	4
AUG									
14...	0810	.05	700	7.8	13.5	--	--	--	3
SEP									
03...	1115	4.5	840	7.9	15.0	--	--	--	0
23...	1142	--	720	8.0	15.0	--	--	--	0

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



## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN--Continued  
TEMESCAL CREEK AT THORNHILL BRANCH, AT OAKLAND, CA--Continued

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)
OCT								
11...	.71	.02	.73	.01	.33	.34	1.1	.10
18...	.63	.04	.67	.01	.35	.36	1.0	.09
24...	.50	.04	.54	.05	1.7	1.7	2.2	.10
NOV								
03...	--	--	--	--	--	--	--	--
DEC								
18...	--	--	--	--	--	--	--	--
MAY								
28...	1.1	.02	1.1	.06	.60	.66	1.8	.18
JUL								
07...	.52	.02	.54	.04	.93	.97	1.5	.09
30...	.73	.01	.74	.00	1.1	1.1	1.8	.10
AUG								
14...	.68	.01	.69	.00	.94	.94	1.6	.09
SEP								
03...	.72	.00	.72	.02	.60	.62	1.3	.09
23...	.72	.02	.74	.03	.80	.83	1.6	.10

## 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 years 1979-80 (discontinued).

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 FIELD (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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT									
11...	1155	--	1220	7.6	16.0	7.0	--	--	0
18...	1230	.01	1500	7.5	14.5	10.0	840	9000	0
24...	1115	--	1560	6.9	13.5	9.5	4000	3400	0
NOV									
03...	1230	--	--	--	--	--	--	--	1040
DEC									
18...	1200	--	1580	8.0	9.5	--	670	1100	--
MAY									
28...	1230	--	1010	7.8	12.5	--	--	--	0
JUL									
07...	1210	--	1200	8.2	13.5	--	--	--	6
30...	1350	.02	1080	8.4	16.0	--	--	--	1
AUG									
14...	0800	.01	1000	7.6	12.0	--	--	--	0
SEP									
03...	1100	.75	1000	7.8	13.5	--	--	--	7
24...	1140	.01	900	8.0	15.0	--	--	--	0

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)
OCT								
11...	.15	.02	.17	.03	.49	.52	.69	.17
18...	.10	.02	.12	.03	.31	.34	.46	.16
24...	.16	.02	.18	.02	2.0	2.0	2.2	.17
NOV								
03...	--	--	--	--	--	--	--	--
DEC								
18...	--	--	--	--	--	--	--	--
MAY								
28...	.22	.00	.22	.06	.46	.54	.74	.13
JUL								
07...	.10	.00	.10	.01	.70	.71	.81	.14
30...	.28	.00	.28	.00	.40	.40	.68	.18
AUG								
14...	.26	.00	.26	.00	1.4	1.4	1.7	.18
SEP								
03...	.21	.00	.21	.03	.27	.30	.51	.19
24...	.26	.00	.26	.01	.41	.42	.68	.18

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN--Continued  
TEMESCAL CREEK AT HEATHER RIDGE S, AT OAKLAND, CA

LOCATION.--Lat 37°50'32", long 122°12'13", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1980.

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 FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 18...	1300	.03	502	7.8	17.5	9.3	580	2200	2
DEC 18...	1220	--	390	7.8	12.0	--	K200	>10000	--
MAY 28...	1310	--	680	7.4	17.5	--	--	--	1
JUL 07...	1240	--	540	7.4	17.0	--	--	--	4
30...	1507	.02	425	8.5	20.5	--	--	--	2
AUG 14...	0810	.02	360	8.2	15.0	--	--	--	10
SEP 03...	1150	--	--	8.1	17.0	--	--	--	0
24...	1128	.02	350	7.8	16.5	--	--	--	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)
OCT 18...	1.3	.02	1.3	.01	.31	.32	1.6	.08
DEC 18...	--	--	--	--	--	--	--	--
MAY 28...	.98	.01	.99	.04	.38	.42	1.4	.08
JUL 07...	.93	.01	.94	.01	1.3	1.3	2.2	.06
30...	1.6	.15	1.7	.00	3.5	3.5	5.2	.05
AUG 14...	1.3	.03	1.3	.00	1.6	1.6	2.9	.08
SEP 03...	1.4	.03	1.4	.04	1.3	1.3	2.7	.06
24...	1.2	.02	1.2	.04	1.6	1.6	2.8	.06

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	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)
OCT 21...	1200	320	16.0	3	1.3	.08	1.4	.33	.77	1.1	2.5	.07

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

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN--Continued  
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 years 1979-80 (discontinued).

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCEI FECAL, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 24...	1145	977	7.4	17.0	9.1	<10	230	2
DEC 18...	1230	1030	7.9	15.0	--	K10	210	--

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)
OCT 24...	.55	.02	.57	.01	.47	.48	1.1	.01
DEC 18...	--	--	--	--	--	--	--	--

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
JUL 07...	1305	--	800	8.0	16.0	4	.51
30...	1530	--	710	8.4	19.0	1	.62
AUG 14...	0935	.01	690	7.7	14.0	0	.57
SEP 03...	1200	--	865	7.7	16.0	2	.63
24...	1055	.01	770	7.8	16.5	n	.58

TEMESCAL CREEK AT HEATHER RIDGE E, AT OAKLAND, CA

LOCATION.--Lat 37°50'33", long 122°12'13", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1980.

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 FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCEI FECAL, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 18...	1300	.02	1020	7.7	17.0	9.7	3400	2300	3
DEC 18...	1215	--	1170	8.2	13.0	--	1200	2000	--
MAY 28...	1305	--	860	8.2	13.5	--	--	--	3
JUL 07...	1235	--	960	8.3	15.5	--	--	--	0
30...	1500	.02	880	8.6	17.5	--	--	--	16
AUG 14...	0800	--	820	8.1	16.0	--	--	--	2
SEP 03...	1140	1.6	990	8.1	17.0	--	--	--	0
24...	1122	.03	910	8.1	16.0	--	--	--	0

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 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN--Continued  
TEMESCAL CREEK AT HEATHER RIDGE E, AT OAKLAND, CA--Continued

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)
OCT 18...	.30	.02	.32	.04	.45	.49	.81	.10
DEC 18...	--	--	--	--	--	--	--	--
MAY 28...	.23	.00	.23	.06	.19	.25	.48	.11
JUL 07...	.20	.00	.20	.00	.43	.43	.63	.11
30...	.31	.01	.32	.00	.79	.79	1.1	.14
AUG 14...	.27	.00	.27	.00	.42	.42	.69	.10
SEP 03...	.23	.00	.23	.03	.21	.24	.47	.10
24...	.22	.00	.22	.00	.31	.31	.53	.10

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT 21...	1155	.02	750	8.8	16.0	1	.27

DATE	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)
OCT 21...	.00	.27	.23	.09	.32	.59	.11

TEMESCAL CREEK AT 7-ACRE CONTROL, AT OAKLAND, CA

LOCATION.--Lat 37°50'38", long 122°11'53", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1980.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	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)
JUL 07...	.00	.51	.00	.67	.67	1.2	.03
30...	.01	.63	.00	1.1	1.1	1.7	.13
AUG 14...	.00	.57	.00	.56	.56	1.1	.03
SEP 03...	.00	.63	.02	.23	.25	.88	.01
24...	.00	.58	.01	.28	.29	.87	.02

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN--Continued  
 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 years 1979-80 (discontinued).

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 FIELD (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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT									
11...	1125	--	1150	7.8	16.5	6.8	--	--	6
18...	1130	.07	1240	7.4	15.5	8.3	1400	1900	0
24...	1030	--	1390	7.2	14.5	8.8	K19000	18000	0
31...	1100	.13	1210	7.6	14.0	9.4	2200	2800	0
DEC									
18...	1040	--	1200	8.2	9.0	--	K1800	620	--
MAY									
14...	1220	--	1000	8.4	13.0	--	--	--	0
28...	1215	--	940	8.3	13.5	--	--	--	1
JUL									
07...	1115	--	980	8.3	14.5	--	--	--	5
30...	1040	.11	1000	8.5	16.5	--	--	--	1
AUG									
05...	1800	--	655	8.1	15.0	--	--	--	37
05...	1910	--	850	8.0	15.0	--	--	--	34
05...	2015	--	880	8.1	16.0	--	--	--	11
05...	2110	--	880	8.2	16.0	--	--	--	10
05...	2205	--	875	8.1	15.5	--	--	--	15
06...	0015	--	890	8.1	15.5	--	--	--	17
06...	0103	--	890	8.1	16.0	--	--	--	12
06...	0200	--	890	7.9	15.5	--	--	--	5
06...	0305	--	810	7.9	15.5	--	--	--	12
06...	0420	--	890	8.0	15.5	--	--	--	20
06...	0515	--	--	7.6	15.5	--	--	--	18
06...	0600	--	--	--	15.5	--	--	--	16
06...	0710	--	--	8.1	15.0	--	--	--	12
06...	0810	--	--	8.2	15.0	--	--	--	11
06...	0905	--	--	8.3	15.0	--	--	--	9
06...	1000	--	--	8.4	15.0	--	--	--	12
06...	1130	--	--	8.3	15.5	--	--	--	8
06...	1200	--	--	8.4	16.0	--	--	--	11
06...	1300	--	--	8.5	17.0	--	--	--	12
06...	1400	--	--	8.3	16.5	--	--	--	8
06...	1500	--	--	8.3	17.0	--	--	--	9
06...	1555	--	--	8.4	17.0	--	--	--	8
14...	0700	.14	800	8.0	14.0	--	--	--	6
SEP									
03...	1025	6.0	900	7.8	15.0	--	--	--	4
17...	1132	--	815	8.0	15.0	--	--	--	12
24...	0955	.11	780	7.8	14.0	--	--	--	1

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 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN--Continued  
TEMESCAL CREEK ABOVE HOLDING POND, AT OAKLAND, CA--Continued

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)
OCT								
11...	.34	.02	.36	.02	.36	.38	.74	.17
18...	.42	.02	.44	.09	.53	.62	1.1	.20
24...	1.3	.06	1.4	.06	.56	.62	2.0	.15
31...	.55	.02	.57	.00	.48	.48	1.1	.11
DEC								
18...	--	--	--	--	--	--	--	--
MAY								
14...	.62	.01	.63	.01	.69	.70	1.3	.08
28...	.51	.02	.53	.06	.26	.32	.85	.12
JUL								
07...	.30	.00	.30	.00	.64	.64	.94	.15
30...	.76	.01	.77	.00	.51	.51	1.3	.24
AUG								
05...	.82	.05	.87	.06	.86	.92	1.8	.28
05...	.81	.05	.86	.05	.85	.90	1.8	.26
05...	.80	.04	.84	.06	1.0	1.1	1.9	.26
05...	.77	.04	.81	.04	.61	.65	1.5	.26
05...	.73	.04	.77	.06	.94	1.0	1.8	.25
06...	.65	.04	.69	.06	1.0	1.1	1.8	.24
06...	.63	.02	.65	.04	.67	.71	1.4	.24
06...	.64	.04	.68	.05	1.4	1.4	2.1	.24
06...	.65	.03	.68	.10	.52	.62	1.3	.23
06...	.69	.03	.72	.06	.94	1.0	1.7	.24
06...	.67	.02	.69	.04	1.1	1.1	1.8	.24
06...	.63	.03	.66	.04	.82	.86	1.5	.23
06...	.62	.02	.64	.03	.76	.79	1.4	.23
06...	.65	.02	.67	.03	.97	1.0	1.7	.32
06...	.76	.02	.78	.05	.71	.76	1.5	.32
06...	.68	.02	.70	.05	.78	.83	1.5	.32
06...	.63	.01	.64	.04	.77	.81	1.5	.30
06...	.59	.02	.61	.05	.74	.79	1.4	.29
06...	.55	.01	.56	.05	.81	.86	1.4	.30
06...	.55	.01	.56	.04	1.1	1.1	1.7	.31
06...	.54	.01	.55	.03	.83	.86	1.4	.34
06...	.59	.01	.60	.01	.84	.85	1.5	.28
14...	.62	.01	.63	.00	--	--	--	.19
SEP								
03...	.76	.00	.76	.03	.34	.37	1.1	.26
17...	.68	.01	.69	.00	.54	.54	1.2	.22
24...	.59	.01	.60	.00	.54	.54	1.1	.20

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT							
01...	0845	.09	750	7.8	15.0	7	.64
01...	1220	.08	720	7.9	18.0	4	.87
01...	1620	.08	630	7.8	16.5	6	.69
01...	2030	.11	720	7.7	17.0	1	.69
02...	0120	.08	900	--	16.0	4	.44
21...	1050	.11	760	8.2	13.5	2	.73
21...	1055	.11	760	8.2	13.5	--	.73
JAN							
27...	1008	--	140	7.0	12.0	722	1.1
27...	1100	--	140	6.9	13.0	482	1.5
27...	1320	--	210	6.8	12.5	284	1.8
27...	1435	--	270	7.2	12.5	164	2.6
27...	1710	--	285	6.9	19.5	304	2.4

DATE	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)
OCT							
01...	.00	.64	.00	.49	.49	1.1	.23
01...	.01	.88	.00	.59	.59	1.5	.25
01...	.00	.69	.00	.49	.49	1.2	.24
01...	.00	.69	.00	.72	.72	1.4	.25
02...	.00	.44	.00	.65	.65	1.1	.22
21...	.03	.76	.26	.45	.71	1.5	.26
21...	.03	.76	.25	.16	.41	1.2	.30
JAN							
27...	.03	1.1	.15	2.4	2.5	3.6	.30
27...	.03	1.5	.18	1.7	1.9	3.4	.24
27...	.02	1.8	.15	1.5	1.6	3.4	.44
27...	.04	2.6	.25	1.2	1.4	4.0	.27
27...	.03	2.4	.14	1.3	1.4	3.8	.41

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN-Continued  
TEMESCAL CREEK IN HOLDING POND, AT OAKLAND, CA

LOCATION.--Lat 37°50'38", long 122°13'36", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1980.

COOPERATION.-- Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT								
11...	1100	--	960	7.6	16.0	6.9	0	.05
11...	1115	1.5	960	7.6	16.5	7.2	6	.04
MAY								
14...	1220	--	920	8.1	14.5	--	10	.43
JUL								
07...	1105	.5	980	8.6	18.5	--	6	.00
30...	1032	--	910	9.0	21.0	--	6	.03
AUG								
14...	0730	--	800	8.1	15.0	--	0	.16
SEP								
03...	1010	--	920	8.4	16.5	--	0	.01
17...	1047	--	790	8.4	17.0	--	12	.14
24...	0946	--	700	7.8	15.5	--	2	.19

DATE	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)
OCT							
11...	.02	.07	.04	.48	.52	.59	.15
11...	.02	.06	.03	.48	.51	.57	.14
MAY							
14...	.01	.44	.01	.40	.41	.85	.08
JUL							
07...	.00	.00	.00	1.3	1.3	1.3	.15
30...	.00	.03	.07	1.4	1.5	1.5	.18
AUG							
14...	.01	.17	.00	.87	.87	1.0	.19
SEP							
03...	.00	.01	.03	.64	.67	.68	.14
17...	.01	.15	.00	.60	.60	.75	.16
24...	.01	.20	.02	.85	.87	1.1	.22

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT							
01...	0745	.5	725	7.6	16.0	7	.55
01...	0805	2.5	735	7.5	16.0	10	.50
01...	1140	.5	720	7.7	20.5	7	.51
01...	1150	2.5	740	8.0	18.0	22	.51
01...	1555	2.5	750	7.9	18.0	24	.47
01...	1605	.5	840	8.0	19.0	7	.46
01...	2050	.5	730	8.0	18.0	4	.50
01...	2100	2.5	725	7.9	17.0	9	.46
02...	0050	2.5	740	--	16.0	34	.46
02...	0105	.5	740	--	16.5	0	.49
21...	1035	--	790	7.7	14.0	17	.39
21...	1040	--	790	7.7	14.0	--	.39

DATE	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)
OCT							
01...	.02	.57	.02	.92	.94	1.5	.22
01...	.01	.51	.05	.51	.56	1.1	.22
01...	.01	.52	.01	.76	.77	1.3	.22
01...	.02	.53	.02	.76	.78	1.3	.23
01...	.01	.48	.10	1.0	1.1	1.6	.22
01...	.02	.48	.00	.88	.88	1.4	.21
01...	.01	.51	.00	1.4	1.4	1.9	.20
01...	.01	.47	.00	.69	.69	1.2	.22
02...	.01	.47	.04	1.3	1.3	1.8	.34
02...	.01	.50	.00	.67	.67	1.2	.21
21...	.03	.42	.26	.84	1.1	1.5	.21
21...	.03	.42	.25	.48	.73	1.2	.22

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 years 1979-80 (discontinued).

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 FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	CULI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT									
11...	1045	--	948	7.4	16.0	7.3	--	--	6
18...	1100	--	907	6.4	16.0	.7	>1200	>2000	9
24...	1015	--	1000	7.1	14.5	5.4	K16000	6100	17
31...	1045	--	1270	7.2	12.5	6.2	K2000	K1300	5
DEC									
18...	1030	--	961	7.9	17.5	--	940	460	--
MAY									
14...	1220	--	920	8.2	14.5	--	--	--	12
28...	1200	--	920	7.9	15.0	--	--	--	23
JUL									
07...	1100	--	880	8.1	18.5	--	--	--	12
30...	1025	.11	925	9.0	20.5	--	--	--	13
AUG									
05...	1815	--	720	8.9	20.0	--	--	--	25
06...	0025	--	730	8.5	18.5	--	--	--	24
06...	0615	--	--	--	17.5	--	--	--	18
06...	1210	--	--	9.0	18.5	--	--	--	18
14...	0740	--	610	8.1	16.0	--	--	--	2
SEP									
03...	1005	--	920	8.3	16.5	--	--	--	0
17...	1050	--	800	8.3	17.0	--	--	--	14
24...	0938	.11	--	8.0	15.0	--	--	--	4

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)
OCT								
11...	.04	.02	.06	.03	.43	.46	.52	.14
18...	.00	.02	.02	.15	1.8	1.9	1.9	.17
24...	.46	.08	.54	.04	.60	.64	1.2	.22
31...	.75	.03	.78	.00	.62	.62	1.4	.13
DEC								
18...	--	--	--	--	--	--	--	--
MAY								
14...	.41	.01	.42	.01	.46	.47	.89	.08
28...	.39	.02	.41	.04	.60	.64	1.1	.13
JUL								
07...	.00	.00	.00	.00	1.0	1.0	1.0	.14
30...	.03	.00	.03	.03	1.2	1.2	1.2	.14
AUG								
05...	.00	.00	.00	.01	1.1	1.1	1.1	.19
06...	.00	.01	.01	.09	1.3	1.4	1.4	.21
06...	.00	.01	.01	.01	1.9	1.9	1.9	.20
06...	.00	.01	.01	.04	1.3	1.3	1.3	.24
14...	.11	.01	.12	.03	.83	.86	.98	.17
SEP								
03...	.10	.00	.10	.04	.69	.73	.83	.14
17...	.14	.01	.15	.00	.55	.55	.70	.15
24...	.33	.01	.34	.04	.73	.77	1.1	.20

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



## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN--Continued  
TEMESCAL CREEK BELOW HOLDING POND, AT OAKLAND, CA--Continued

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT							
01...	0825	.09	710	7.6	16.0	14	.52
01...	1210	.08	750	7.8	18.5	6	.51
01...	1537	.09	740	7.9	19.0	6	.48
01...	2110	.11	740	7.9	18.0	5	.49
01...	2400	.08	740	--	17.0	17	.48
21...	1025	.11	790	7.7	12.5	0	.37
21...	1030	.11	790	7.7	12.5	--	.36
JAN							
27...	1006	--	120	6.9	12.0	610	.98
27...	1102	--	130	6.9	13.5	428	1.4
27...	1323	--	180	7.1	12.0	282	1.9
27...	1437	--	240	7.2	13.0	170	2.3
27...	1715	--	220	7.0	12.0	252	1.9

DATE	NITRO- GEN, NITRATE 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)
OCT							
01...	.02	.54	.07	1.0	1.1	1.6	.23
01...	.02	.53	.00	1.0	1.0	1.5	.22
01...	.01	.49	.00	.88	.88	1.4	.21
01...	.01	.50	.00	.72	.72	1.2	.21
01...	.01	.49	.01	.77	.78	1.3	.22
21...	.02	.39	.26	.74	1.0	1.4	.21
21...	.03	.39	.24	.67	.91	1.3	.20
JAN							
27...	.12	1.1	.43	1.8	2.2	3.3	.24
27...	.03	1.4	.20	1.5	1.7	3.1	.51
27...	.06	2.0	.25	.59	.84	2.8	.24
27...	.04	2.3	.25	1.1	1.3	3.6	.23
27...	.03	1.9	.13	1.4	1.5	3.4	.34

## TEMESCAL CREEK AT LAKE TEMESCAL, AT OAKLAND, CA

LOCATION.--Lat 37°50'42", long 122°13'38", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1980.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, AT 105 DEG. C, SUS- PENDE (COLS./ 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)
OCT								
18...	1115	1010	7.0	17.0	5.3	>6000	1500	4
DEC								
18...	1050	1200	8.2	9.0	--	2800	1000	--
MAY								
14...	1220	950	7.5	18.0	--	--	--	8
28...	1150	860	7.2	18.0	--	--	--	0
JUL								
07...	1030	800	6.8	16.5	--	--	--	0
30...	1015	1030	8.5	24.5	--	--	--	1

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE 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)
OCT								
18...	.00	.04	.04	.32	1.2	1.5	1.5	.26
DEC								
18...	--	--	--	--	--	--	--	--
MAY								
14...	.23	.03	.26	.12	.85	.91	1.2	.04
28...	.02	.01	.03	.10	.42	.52	.55	.04
JUL								
07...	.00	.00	.00	.03	.88	.91	.91	.05
30...	.03	.01	.04	.03	.85	.88	.92	.24

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS  
WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN--Continued  
LAKE TEMESCAL AT BUOY, AT OAKLAND, CA

LOCATION.--Lat 37°50'50", long 122°13'48", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1980.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDEU (MG/L)
OCT 31...	1015	911	6.9	16.0	4.4	270	K190	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)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 31...	.20	.03	.23	.32	.78	1.1	1.3	.10

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 years 1979-80 (discontinued).

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 FIELD (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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDEU (MG/L)
OCT									
11...	1200	--	989	7.8	15.5	9.2	--	--	27
18...	1245	--	1000	7.5	14.5	9.9	5400	8200	47
24...	1115	--	1030	7.7	13.5	9.5	3700	8400	57
DEC									
18...	1205	--	1020	8.2	10.0	--	K8900	6000	--
MAY									
28...	1250	--	720	7.9	13.0	--	--	--	26
JUL									
07...	1220	--	780	8.1	15.5	--	--	--	40
30...	1430	.01	730	8.5	19.0	--	--	--	37
AUG									
14...	0740	.02	680	7.9	12.0	--	--	--	21
SEP									
03...	1125	.67	810	8.0	14.0	--	--	--	125
24...	1045	.01	740	8.0	14.0	--	--	--	94
							NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT									
11...		.03	.02	.05	.02	1.1	1.1	1.2	.31
18...		.06	.02	.08	.03	.56	.59	.67	.24
24...		.08	.02	.10	.01	.98	.99	1.1	.28
DEC									
18...		--	--	--	--	--	--	--	--
MAY									
28...		.08	.00	.08	.06	.31	.37	.45	.19
JUL									
07...		.03	.00	.03	.00	1.2	1.2	1.2	.27
30...		.11	.01	.12	.00	.74	.74	.86	.25
AUG									
14...		.05	.01	.06	.00	1.0	1.0	1.1	.26
SEP									
03...		.00	.00	.00	.03	.70	.73	.73	.30
24...		.00	.00	.00	.01	.99	1.0	1.0	.25

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

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN--Continued  
TEMESCAL CREEK BELOW PINEHAVEN PARK, AT OAKLAND, CA--Continued

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT 21...	1140	.01	660	8.5	13.0	2	.00
DATE	TIME	NITRO- GEN, NITRATE 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)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 21...	.00	.00	.22	.36	.58	.58	.24

## 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 years 1979-80 (discontinued).

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (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. 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)
OCT 24...	0930	--	1030	7.0	17.0	6.0	K83	K340	5
DEC 18...	1000	--	834	7.8	--	--	130	K68	--
MAY 28...	1110	--	1000	7.8	17.5	--	--	--	2
JUL 07...	1020	.5	1000	8.5	21.5	--	--	--	3
30...	1000	.5	1020	8.5	24.5	--	--	--	3
AUG 14...	0853	--	1100	7.9	22.0	--	--	--	0
SEP 03...	0940	--	945	8.2	20.0	--	--	--	3
24...	0915	--	910	8.2	19.5	--	--	--	4

DATE	TIME	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE 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)
OCT 24...	.10	.04	.14	.18	.92	1.1	1.2	.10	
DEC 18...	--	--	--	--	--	--	--	--	--
MAY 28...	.02	.01	.03	.10	.37	.47	.50	.04	
JUL 07...	.00	.00	.00	.03	.93	.96	.96	.06	
30...	.03	.00	.03	.03	.85	.88	.91	.04	
AUG 14...	.00	.00	.00	.00	1.3	1.3	1.3	.07	
SEP 03...	.00	.01	.01	.06	1.5	1.6	1.6	.10	
24...	.00	.02	.00	.00	1.7	1.7	1.7	.13	

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT 21...	0950	925	8.3	16.0	4	.00	.000
21...	0955	925	8.3	16.0	--	.00	.000

X 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 1979 TO SEPTEMBER 1980

LAKE TEMESCAL CREEK BASIN--Continued  
LAKE TEMESCAL AT SOUTH SWIM AREA, AT OAKLAND, CA--Continued

DATE	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)
OCT 21...	.00	.080	.78	.86	.86	.120
21...	.00	.000	1.3	1.3	1.3	.09

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 years 1979-80 (discontinued).

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	
OCT 31...	1130	850	7.8	17.0	9.0	K8500	960	5	
DEC 18...	1110	694	8.3	13.0	--	1100	250	--	
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)
OCT 31...	.53	.03	.56	.00	.52	.52	1.1	.07	
DEC 18...	--	--	--	--	--	--	--	--	

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 years 1979-80 (discontinued).

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 FIELD (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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 31...	1200	.02	111	8.8	19.5	9.4	K20	K94	10
DEC 18...	1115	--	108	8.0	14.5	--	K44	K100	--

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)
OCT 31...	.01	.02	.03	.00	.54	.54	.57	.03
DEC 18...	--	--	--	--	--	--	--	--

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

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN--Continued  
NORTH BRANCH CALDECOTT CREEK AT SOUTH GATE, AT OAKLAND, CA

LOCATION.--Lat 37°51'14", long 122°13'09", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1980.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 31...	1230	1420	7.8	17.0	9.2	>6000	1200	6
		NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE 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)
OCT 31...	1.2	.04	1.2	.00	.55	.55	1.8	.11

## EAST BRANCH CALDECOTT CREEK AT SOUTH GATE, AT OAKLAND, CA

LOCATION.--Lat 37°51'15", long 122°13'08", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1980.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 31...	1245	3080	7.8	17.0	K100	K36	5
		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,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)

OCT 31...	.52	.17	.69	1.6	2.3	.02
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## CALDECOTT CREEK AT NORTH GATE, AT OAKLAND, CA

LOCATION.--Lat 37°51'16", long 122°13'00", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1980.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
JUL 30...	1125	1015	8.5	22.0	4	1.1	.01
		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)
JUL 30...	1.1	.01	.70	.71	1.8	.05	

x 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 1979 TO SEPTEMBER 1980

TEMESCAL CREEK BASIN--Continued

CALDECOTT CREEK POND AT PARKWOOD APARTMENTS, AT OAKLAND, CA

LOCATION.--Lat 37°51'18", long 122°13'09", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water year 1980

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
AUG 14...	0855	620	7.7	14.5	27	.01	.01
SEP 24...	1015	660	8.0	18.0	9	.00	.00

DATE	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)
AUG 14...	.02	.00	1.2	1.2	1.2	.13
SEP 24...	.00	.00	.95	.95	.95	.05

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
OCT 21...	1110	240	8.5	15.0	5	.00	.00

DATE	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)
OCT 21...	.00	.20	.58	.78	.78	.18

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 years 1979-80 (discontinued).

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 FIELD (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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 18...	1200	--	294	6.9	17.5	9.9	820	1100	5
31...	1215	.01	320	6.7	17.0	9.2	230	770	10
DEC 18...	1130	--	349	7.7	12.0	--	K30	K140	--
JUL 07...	1125	--	400	7.0	15.5	--	--	--	0
30...	1207	--	600	8.6	22.5	--	--	--	9

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)
OCT 18...	.08	.02	.10	.01	.40	.41	.51	.02
31...	.05	.01	.06	.00	.39	.39	.45	.05
DEC 18...	--	--	--	--	--	--	--	--
JUL 07...	.09	.00	.09	.00	.40	.40	.49	.05
30...	.34	.04	.38	.00	1.7	1.7	2.1	.10

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

RUSSIAN RIVER BASIN  
DRY CREEK NEAR ASTI, CA

LOCATION.--Lat 38°43'46", long 123°02'17", in SE&NE& 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 mi<sup>2</sup> (239.1 km<sup>2</sup>).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1974 to current year.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 28...	1415	165	196	7.9	10.0	3.2	10.5	85	0	19	9.1	9.4
JAN 30...	1410	126	198	8.0	7.5	2.1	12.0	84	0	18	9.5	8.4
JUN 18...	1010	9.8	236	8.8	20.5	1.1	12.8	100	0	22	11	12
AUG 21...	1035	1.5	281	8.1	21.5	.40	8.1	120	1	27	13	14
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 SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV 28...	19	.4	.7	85	14	4.6	.2	13	122	.17	54.4	.27
JAN 30...	18	.4	.7	89	13	4.0	.2	17	125	.17	42.5	.16
JUN 18...	20	.5	1.0	100	16	5.3	.3	5.2	133	.18	3.52	.03
AUG 21...	20	.6	1.1	120	23	7.1	.2	17	175	.24	.71	.00
DATE	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)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL. (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE (MG/L AS C)
NOV 28...	.23	.03	.03	.34	--	.37	--	.64	.03	.01	7.1	.0
JAN 30...	.15	.00	.01	.52	.04	.52	.05	.68	.03	.02	2.3	.2
JUN 18...	.03	.00	.03	.38	.38	.38	.41	.41	.01	.01	2.5	--
AUG 21...	.00	.00	.00	.38	.18	.38	.18	.38	.03	.00	8.7	--
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, FM BOT- TOM MA- TERIAL (UG/G)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
NOV 28...	0	0	4	190	0	<1	0	0	0	50	2	0
JAN 30...	--	1	5	130	0	<1	0	0	0	20	3	0
JUN 18...	1	1	7	370	0	<1	0	0	0	24	3	3
AUG 21...	1	1	4	600	0	<1	0	10	0	50	3	0
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (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, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY FM BOT- TOM MA- TERIAL (UG/G AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV 28...	25	30	3	1	--	360	.1	.0	.04	0	4	37
JAN 30...	11	<10	3	3	15	190	--	.0	.02	10	<3	17
JUN 18...	27	<10	0	5	10	300	--	--	.04	10	<3	40
AUG 21...	21	<10	1	3	10	320	.0	.0	.03	10	4	26

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 mi<sup>2</sup> (79.5 km<sup>2</sup>).  
PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1974 to current year.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	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)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 28...	1200	55	177	7.7	10.0	3.2	11.4	83	2	19	8.7	9.5
JAN 30...	1210	50	173	7.3	5.5	1.9	12.3	70	0	16	7.4	7.2
JUN 18...	1330	5.8	285	8.6	25.5	1.8	9.7	94	3	22	9.6	9.4
AUG 20...	1135	.94	233	8.2	24.0	.40	9.2	110	0	25	11	11
DATE	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, DIS- SOLVED TOTAL (MG/L AS N)
NOV 28...	20	.5	.6	81	13	4.0	.2	14	118	.16	17.5	.07
JAN 30...	18	.4	.6	72	11	3.6	.1	18	107	.15	14.4	.05
JUN 18...	18	.4	.9	91	14	4.0	.2	15	130	.18	2.04	.03
AUG 20...	18	.5	1.0	110	16	5.1	.2	17	153	.21	.39	.00
DATE	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)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL (MG/L AS P)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)
NOV 28...	.07	.01	.03	.56	.28	.57	.31	.64	.02	.01	--	.0
JAN 30...	.05	.00	.01	.51	.02	.51	.03	.56	.02	.02	2.9	.3
JUN 18...	.02	.01	.03	.45	.33	.46	.36	.49	.02	.02	--	.1
AUG 20...	.00	.00	.00	.34	.31	.34	.31	.34	.03	.01	--	.1
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
NOV 28...	1	0	3	100	0	2	0	0	0	40	1	0
JAN 30...	--	0	6	50	0	<1	0	0	0	30	2	1
JUN 18...	1	1	5	110	0	<1	0	0	0	30	5	1
AUG 20...	0	1	3	310	0	<1	1	10	20	80	4	0
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (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, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV 28...	--	40	1	0	--	350	.1	.0	.06	70	8	37
JAN 30...	13	10	2	2	10	420	--	.0	.03	10	<3	31
JUN 18...	16	<10	1	0	10	320	.5	--	.02	10	<3	30
AUG 20...	27	10	3	0	10	340	.0	.0	.02	10	<3	42



## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 mi<sup>2</sup> (4.97 km<sup>2</sup>).  
PERIOD OF RECORD.--  
CHEMICAL ANALYSES: Water years 1974 to current year.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH FIELD (UNITS)	TEMPER- ATURE, WATER (DEG C)	TUR- BID- ITY (NTU)	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)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 28...	1045	1.4	427	8.0	10.5	.80	11.1	110	0	23	12	64
JAN 30...	1005	2.7	284	7.7	6.5	1.2	12.2	86	0	19	9.3	28
JUN 18...	1330	.27	981	8.2	27.0	2.5	8.9	100	0	23	11	200
AUG 20...	1035	.05	2360	8.3	21.0	.70	--	110	0	25	11	580
DATE	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)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV 28...	56	2.7	2.9	210	22	8.0	.8	16	276	.38	1.04	.15
JAN 30...	41	1.3	1.5	130	15	5.4	.4	15	174	.24	1.27	.05
JUN 18...	79	9.0	8.0	490	14	13	2.0	33	620	.84	.45	.07
AUG 20...	92	24	1.8	1350	9.6	40	.6	65	1600	2.18	.22	.10
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 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHOPH- OSPHATE DISSOL- D (MG/L AS P)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE D (MG/L AS C)
NOV 28...	.14	.04	.07	.21	.28	.25	.35	.40	.03	.03	--	.0
JAN 30...	.05	.03	.04	1.1	.08	1.1	.12	1.2	.03	.02	2.1	.3
JUN 18...	.10	.07	.09	.62	.54	.69	.63	.76	.04	.03	--	.3
AUG 20...	.08	.00	.00	.24	.15	.24	.15	.34	.12	.06	2.4	.3
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
NOV 28...	7	5	11	7500	0	2	0	0	0	40	1	0
JAN 30...	--	2	8	2200	0	<1	0	0	0	30	1	0
JUN 18...	17	15	8	21000	0	<1	0	0	0	30	4	1
AUG 20...	48	46	7	53000	0	<1	1	10	0	40	.3	0
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (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, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
NOV 28...	31	40	3	0	10	640	.1	.0	.43	60	<3	54
JAN 30...	15	20	0	2	5	340	--	.0	.21	20	<3	31
JUN 18...	19	20	2	0	10	320	--	.0	.11	20	<3	30
AUG 20...	16	30	1	3	20	520	.0	--	.16	10	<3	30

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

REDWOOD CREEK BASIN  
11482110 LACKS CREEK NEAR ORICK, CA

LOCATION.--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.--16.9 mi<sup>2</sup> (43.8 km<sup>2</sup>), revised.

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 (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
DEC 20...	1130	10.0	117	67	21	--	--	--
JAN 05...	0800	9.0	65	16	2.8	--	--	--
14...	0900	9.0	1440	1720	6690	--	--	--
15...	1245	9.5	515	667	927	27	33	42
15...	1605	10.0	440	681	809	--	--	--
FEB 06...	1325	9.0	108	51	15	--	--	--
20...	1225	9.5	320	248	214	--	--	--
MAR 14...	1410	8.5	1180	2160	6880	--	21	28
14...	1615	9.0	1030	1720	4780	--	--	--
APR 21...	1125	10.0	70	17	3.2	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM
DEC 20...	--	--	86	92	96	99	100	--
JAN 05...	--	--	81	--	--	--	--	--
14...	--	--	72	--	--	--	--	--
15...	51	62	68	75	84	91	97	100
15...	--	--	65	--	--	--	--	--
FEB 06...	--	--	86	91	93	97	100	--
20...	--	--	71	--	--	--	--	--
MAR 14...	37	46	54	60	69	82	100	--
14...	--	--	55	--	--	--	--	--
APR 21...	--	--	86	--	--	--	--	--

## 11482120 REDWOOD CREEK ABOVE PANTHER CREEK, NEAR ORICK, CA

LOCATION.--Lat 41°05'21", long 123°54'23", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank 100 ft (30 m) upstream from Panther Creek, 2.0 mi (3.2 km) upstream from south boundary of Redwood National Park, and 16 mi (25.7 km) southeast of Orick, and 28 mi (45.1 km) upstream from mouth.

DRAINAGE AREA.--150 mi<sup>2</sup> (389 km<sup>2</sup>).

PERIOD OF RECORD.--Water years 1974-76, 1980.

CHEMICAL ANALYSES: Water years 1974-75.

SEDIMENT RECORDS: Water years 1974-76, 1980.

REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies," Data Release Numbers 1 and 2.

DATE	TIME	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 .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
JAN 13...	1030	5450	1880	27700	--	--	--
13...	1435	5300	1840	26300	26	35	46
13...	1605	7250	3210	62800	25	36	48
14...	0945	5450	2000	29400	--	--	--
14...	1320	6120	1980	32700	24	33	43
14...	1440	6950	2390	44800	--	--	--
14...	1605	7010	2470	46800	--	--	--

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

REDWOOD CREEK BASIN--Continued  
11482120 REDWOOD CREEK ABOVE PANTHER CREEK, NEAR ORICK,  
CA--Continued

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							
13...	--	64	--	--	--	--	--
13...	58	67	75	86	95	99	100
13...	60	69	78	87	95	99	100
14...	--	57	--	--	--	--	--
14...	54	64	73	84	93	97	99
14...	--	57	--	--	--	--	--
14...	--	58	--	--	--	--	--

11482110 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 mi<sup>2</sup> (30.0 km<sup>2</sup>).

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)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
NOV								
09...	1535	12.0	47	6	.76	--	--	--
DEC								
20...	1315	10.0	65	9	1.6	--	--	--
JAN								
15...	1310	10.0	350	426	403	26	29	40
FEB								
20...	1240	10.5	178	78	37	--	--	--
MAR								
14...	1410	10.5	355	1230	1180	--	--	--
14...	1545	10.5	304	1060	870	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV							
09...	--	--	--	--	--	--	--
DEC							
20...	--	64	--	--	--	--	--
JAN							
15...	51	58	63	73	84	96	100
FEB							
20...	--	49	--	--	--	--	--
MAR							
14...	--	58	--	--	--	--	--
14...	--	58	--	--	--	--	--

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

REDWOOD CREEK BASIN--Continued  
 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 mi<sup>2</sup> (523 km<sup>2</sup>).  
 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)	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	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
JAN										
13...	1410	11.0	7200	2200	42800	28	38	50	62	69
13...	1550	11.0	7760	2400	50300	--	--	--	--	--
14...	1300	10.5	8340	2000	45000	--	--	--	--	--
14...	1520	10.5	8900	2250	54100	21	30	40	49	--

DATE	TIME	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 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
JAN											
13...	--	76	--	86	--	96	--	100	--	--	--
13...	68	--	--	--	--	--	--	--	--	--	--
14...	63	--	--	--	--	--	--	--	--	--	--
14...	57	--	65	--	76	--	87	--	95	99	--

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 mi<sup>2</sup> (7.67 km<sup>2</sup>).  
 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
NOV										
09...	1215	11.0	13	8	.28	--	--	--	--	--
DEC										
20...	1140	10.0	11	16	.48	84	--	--	--	--
JAN										
16...	1155	11.0	53	157	22	75	81	88	95	100
FEB										
20...	1415	10.5	50	54	7.3	70	--	--	--	--

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

REDWOOD CREEK BASIN--Continued  
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 mi<sup>2</sup> (1.74 km<sup>2</sup>).

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water years 1979 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
NOV 07...	1355	13.0	7.5	13	.26	80	--	--	--	--
DEC 19...	1315	--	1.9	10	.05	94	--	--	--	--
JAN 15...	1410	11.0	18	155	7.5	89	92	96	99	100
FEB 19...	1335	10.0	12	160	5.2	89	--	--	--	--

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 mi<sup>2</sup> (3.52 km<sup>2</sup>).

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. SIEVE DIAM. % FINER THAN .062 MM
NOV 08...	1435	12.0	6.5	11	.19	87
DEC 19...	1255	10.0	40	12	1.3	88
JAN 17...	1205	10.5	17	75	3.4	85
FEB 19...	1210	10.5	24	280	18	80

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 mi<sup>2</sup> (565 km<sup>2</sup>).

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 13...	1030	11.5	7730	1960	40900	69
13...	1450	11.5	7900	2310	49300	67
13...	1535	11.5	8900	2270	54500	67
13...	1705	11.5	10900	2650	78000	66
14...	1235	11.0	8800	1980	47000	62
14...	1350	11.0	9500	1970	50500	64
14...	1440	11.0	9900	1950	52100	66
14...	1520	11.0	10100	1920	52400	68

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

REDWOOD CREEK BASIN--Continued  
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 mi<sup>2</sup> (1.50 km<sup>2</sup>).

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- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
31...	1100	11.0	.55	5	.01	76
NOV						
07...	1050	12.0	4.4	15	.18	61
27...	1500	9.0	3.9	8	.08	--
DEC						
19...	1125	--	.80	2	.00	--
JAN						
08...	1150	8.5	1.9	7	.04	64
14...	1600	10.0	17	168	7.7	74
15...	1100	10.0	13	49	1.7	82
FEB						
19...	1140	10.0	3.2	24	.21	78
21...	1515	9.5	5.1	22	.30	78
28...	1430	10.5	3.8	25	.26	95
MAR						
12...	1450	8.5	1.2	4	.01	85
14...	1745	9.5	21	412	23	64
27...	1350	8.0	2.3	14	.09	71
APR						
09...	1315	9.5	9.8	5	.13	93
MAY						
14...	1100	9.5	2.8	5	.04	--

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 mi<sup>2</sup> (10.28 km<sup>2</sup>).

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- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
08...	1240	11.5	25	4	.27	--
JAN						
16...	1455	11.5	70	75	14	34
FEB						
20...	1515	9.5	87	30	7.0	72

## 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
AUG 29, 1980	50.5

SITE NUMBER 373248121595001 LOCAL NUMBER 004S001W32C01M

IN FREMONT. DRILLED 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
SEP 25, 1980	64.6

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	DATE	WATER LEVEL
OCT 09, 1979	17.3	APR 15, 1980	14.5

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 463 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY. RECO 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
APR 1980	45.0

## 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. REPLACED BY 002S001W15B01M. 0

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	DATE	WATER LEVEL
OCT 02, 1979	37.39	MAY 07, 1980	34.12 S

SITE NUMBER 380049122015301 LOCAL NUMBER 002N002W13P01M

NEAR PORT CHICAGO. DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN, DEPTH 139 FT. MP 0.62 FT ABOVE LSD. ALTITUDE OF LSD 45 FT. 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 11, 1980	23.9 R S	SEP 25, 1980	25.70 S

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 11, 1980	18.46 S	SEP 25, 1980	18.44 S

S NEARBY, PUMPING



## DEL NORTE COUNTY

SITE NUMBER 413043124020701 LOCAL NUMBER 013N001E15R01H

NEAR KLAMATH. DRILLED TEST WATER-TABLE WELL. DIAM UNKNOWN, DEPTH 200 FT. NO CASING INSTALLED. NP 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 18.4 FEET BELOW LAND SURFACE DATUM SEP 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05, 1979	15.0	MAR 07, 1980	16.2	SEP 24, 1980	18.4

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	DATE	WATER LEVEL
NOV 06, 1979	22.0	APR 08, 1980	12.4	SEP 24, 1980	21.4

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 08, 1980	22.6

## HUMBOLDT COUNTY

SITE NUMBER 401843124170301 LOCAL NUMBER 002S002W03E01H

NEAR PETROLIA. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF THE COAST RANGES PLIOCENE-HOLOCENE IN 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
MAR 04, 1980	13.80	S	SEP 08, 1980	16.30 R S

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
MAR 04, 1980	5.04	S	SEP 08, 1980	13.02 S

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	DATE	WATER LEVEL
NOV 06, 1979	35.5		APR 09, 1980	32.1	SEP 23, 1980	36.2

SITE NUMBER 403633124135701 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	DATE	WATER LEVEL
NOV 06, 1979	15.9		APR 09, 1980	11.7	SEP 23, 1980	15.8

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 38.7 FEET BELOW LAND SURFACE DATUM SEP 25, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 08, 1980	28.5	SEP 25, 1980	38.7

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	DATE	WATER LEVEL
NOV 06, 1979	18.5	APR 10, 1980	10.0	SEP 24, 1980	15.5

SITE NUMBER 410927124074701 LOCAL NUMBER 009N001W24C01H

IN BIG LAGOON NEAR TRINADAD. 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	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 05, 1979	28.2	APR 07, 1980	25.7	SEP 24, 1980	25.8

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
APR 07, 1980	12.0

## GROUND-WATER LEVELS

## 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 13.3 FEET BELOW LAND SURFACE DATUM SEP 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 06, 1979	12.0	APR 07, 1980	12.0	SEP 24, 1980	13.3

## MENDOCINO COUNTY

SITE NUMBER 385455123420201 LOCAL NUMBER 012N017W12L01M

NEAR POINT ARENA. DRILLED DOMESTIC WATER-TABLE WELL. DIAM 6 IN, DEPTH 133 FT, CASED 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
JUN 04, 1980	9.0	SEP 30, 1980	14.63

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
JUN 04, 1980	4.6 S	SEP 30, 1980	13.25 S

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 03, 1979	19.3	MAR 19, 1980	8.8
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	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 30, 1980	11.89 R S	SEP 09, 1980	13.0 R S	SEP 15, 1980	13.54 R S

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 02, 1979	26.1	MAR 18, 1980	16.6

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 37.3 FEET BELOW LAND SURFACE DATUM OCT 21, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
JUN 04, 1980	27.9 S

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 ABOVE LAND SURFACE DATUM FEB 20, 1961.

LOWEST WATER LEVEL 5.2 FEET BELOW LAND SURFACE DATUM OCT 13, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 1979	1.2	MAR 18, 1980	0.3
S NEARBY, PUMPING			

## 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 12.08 FEET BELOW LAND SURFACE DATUM SEP 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL
MAY 01, 1980	4.32	S	SEP 15, 1980	12.08 S

SITE NUMBER 392404123191201 LOCAL NUMBER 018N013W20H04M

NEAR WILLITS. DUG DOMESTIC WATER-TABLE WELL. DIAM 36 IN, DEPTH 26 FT. MP AT LSD. ALTITUDE OF LSD 1,385 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES RECORDS AVAILABLE 1979 TO CURRENT YEAR. DWR BASIN 1-013.

HIGHEST WATER LEVEL 2.33 FEET BELOW LAND SURFACE DATUM APR 23, 1981.

LOWEST WATER LEVEL 18.32 FEET BELOW LAND SURFACE DATUM SEP 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL
APR 30, 1980	2.34	S	JUN 03, 1980	5.4	S	SEP 15, 1980	18.32 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		DATE	WATER LEVEL		DATE	WATER LEVEL
NOV 08, 1979	23.4		JUN 03, 1980	20.3	S	JUL 18, 1980	21.15	S	SEP 09, 1980	26.30 S

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 7.5 FEET BELOW LAND SURFACE DATUM OCT 21, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
JUN 04, 1980	2.25	S

S NEARBY, PUMPING

## MENDOCINO COUNTY--CONTINUED

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 16.10 FEET BELOW LAND SURFACE DATUM SEP 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL
MAY 01, 1980	12.2	S	SEP 15, 1980	16.10 S

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 08, 1979	9.8		APR 02, 1980	4.5

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 34.0 FEET BELOW LAND SURFACE DATUM OCT 09, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 02, 1980	2.4

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 ABOVE 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 07, 1979	3.9		APR 02, 1980	7.0
	S	NEARBY, PUMPING		

## MONTEREY COUNTY

SITE NUMBER 355405120263301 LOCAL NUMBER 023S014E27H01M

0.6 MILES WEST OF PARKFIELD. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH UNKNOWN. MP 0.5 FT ABOVE LSD. ALTITUDE OF LSD 1533 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR. DWR BASIN 3-005.

HIGHEST WATER LEVEL 32.56 FEET BELOW LAND SURFACE DATUM FEB 27, 1980.

LOWEST WATER LEVEL 35.79 FEET BELOW LAND SURFACE DATUM OCT 03, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1979	35.79	FEB 27, 1980	32.56 S

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	DATE	WATER LEVEL
MAY 1980	108.1	AUG 1980	123.8

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	DATE	WATER LEVEL
OCT 1979	24.8	JAN 1980	22.1	MAR 1980	22.0	MAY 1980	24.0
NOV	23.9	FEB	21.7	APR	22.5	SEP	22.2
DEC	22.0						

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
OCT 1979	88.8	JAN 1980	81.6	MAR 1980	78.6	MAY 1980	82.8
NOV	82.6	FEB	80.2	APR	77.9	SEP	96.4
DEC	82.4						

S NEARBY, PUMPING



## MONTEREY COUNTY--CONTINUED

SITE NUMBER 362140121184501 LOCAL NUMBER 018S006E15M01M

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 AVAILABLE 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
NOV 1979	96.1	DEC 1979	97.6	MAR 1980	100.2

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	DATE	WATER LEVEL
NOV 1979	31.3	MAR 1980	100.2

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
DEC 1979	23.9	JAN 1980	19.9	FEB 1980	15.9	MAR 1980	16.5

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
DEC 1979	118.7

## MONTEREY COUNTY--CONTINUED

SITE NUMBER 363216121545401 LOCAL NUMBER 0165001W13L01M

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
OCT 1979	4.0	JAN 1980	5.9	APR 1980	5.5	SEP 1980	7.9
NOV	4.0	FEB	5.4	MAY	5.9		
DEC	4.5	MAR	5.9	JUN	3.0		

SITE NUMBER 363544121495201 LOCAL NUMBER 0155001E26N02M

NEAR SEASIDE. DRILLED DOMESTIC WATER-TABLE WELL IN QUATERNARY SYSTEM. DIAM 8 IN, DEPTH 100 FT. MP 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. FEET BELOW LAND SURFACE DATUM SEP 01, 1980.

LOWEST WATER LEVEL 67.0 FEET BELOW LAND SURFACE DATUM DEC 09, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 1979	53.0	SEP 1980	52.

SITE NUMBER 363856121413701 LOCAL NUMBER 0155002E01001M

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
OCT 1979	62.6	DEC 1979	54.5	FEB 1980	30.6	MAY 1980	42.8
NOV	53.1	JAN 1980	31.9	MAR	28.8	SEP	61.5

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 101.2 FEET BELOW LAND SURFACE DATUM SEP 01, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 1980	74.8	MAY 1980	91.8	SEP 1980	101.2

## MONTEREY COUNTY--CONTINUED

SITE NUMBER 364521121445301 LOCAL NUMBER 013S002E33R01M

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
OCT 1979	38.6	DEC 1979	32.3	FEB 1980	25.6	SEP 1980	41.2
NOV	33.5	JAN 1980	28.5				

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 1979	12.9

## 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 02, 1979	15.2	MAR 18, 1980	2.1

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 01, 1979	17.0	MAR 27, 1980	12.0

## NAPA COUNTY--CONTINUED

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	DATE	WATER LEVEL
OCT 01, 1979	25.0	APR 08, 1980	14.5	SEP 17, 1980	18.0

## 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 1979	141.	MAR 1980	126.

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 1979	102.	MAR 1980	86.

## 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	DATE	WATER LEVEL
OCT 30, 1979	71.3	FEB 26, 1980	64.84	MAY 06, 1980	69.2
S NEARBY, PUMPING					

## SAN LUIS OBISPO COUNTY--CONTINUED

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
OCT 11, 1979	25.5	MAY 05, 1980	14.0

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
OCT 15, 1979	18.2	MAY 02, 1980	13.5

SITE NUMBER 353335120412301 LOCAL NUMBER 027S012E21N05M

1 MILE NORTHEAST OF TEMPLETON. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN, DEPTH UNKNOWN. MP AT LSD. ALTITUDE OF LSD 737 FT. MEASUREMENTS FURNISHED 0 BY SAN LUIS OBISPO COUNTY. RECORDS AVAILABLE 1972 TO CURRENT YEAR. DWR BASIN 3-004. 0

HIGHEST WATER LEVEL 6.5 FEET BELOW LAND SURFACE DATUM APR 12, 1973.

LOWEST WATER LEVEL 33.7 FEET BELOW LAND SURFACE DATUM OCT 06, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
OCT 16, 1979	15.4

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
OCT 04, 1979	123.5

## SAN LUIS OBISPO COUNTY--CONTINUED

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
OCT 19, 1979	291.3

## SAN MATEO COUNTY

SITE NUMBER 37150612223701 LOCAL NUMBER 008S005W10K01M

NEAR PESCADERO. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH  
25 FT. ALTITUDE OF LSD 37 FT. BEGINNING 1953 MEASUREMENTS FURNISHED BY CALIF. DEPT. OF WATER  
RESOURCES. RECORDS AVAILABLE 1953 TO CURRENT YEAR. DWR BASIN 2-026.

HIGHEST WATER LEVEL 3.3 FEET BELOW LAND SURFACE DATUM FEB 27, 1958.

LOWEST WATER LEVEL 20.8 FEET BELOW LAND SURFACE DATUM JAN 23, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11, 1979	17.8	MAR 24, 1980	9.3

SITE NUMBER 371931122231001 LOCAL NUMBER 007S005W15E02M

NEAR SAN GREGORIO. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN, DEPTH  
UNKNOWN. ALTITUDE OF LSD 30 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES.  
RECORDS AVAILABLE 1953 TO CURRENT YEAR. DWR BASIN 2-024.

HIGHEST WATER LEVEL 5.9 FEET BELOW LAND SURFACE DATUM FEB 26, 1958.

LOWEST WATER LEVEL 21.7 FEET BELOW LAND SURFACE DATUM OCT 25, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11, 1979	15.6	MAR 24, 1980	13.7

SITE NUMBER 372706122254301 LOCAL NUMBER 005S005W32K01M

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 11, 1979	33.9	MAR 24, 1980	31.6

## SAN MATEO COUNTY--CONTINUED

SITE NUMBER 372722122100501 LOCAL NUMBER 005S003W34H01M

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		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 02, 1979	38.97	S	MAY 20, 1980	30.85	S	JUL 14, 1980	32.36	S	SEP 05, 1980	34.29 S

SITE NUMBER 372912122113301 LOCAL NUMBER 005S003W21G02M

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		DATE	WATER LEVEL
OCT 02, 1979		F	MAY 08, 1980	

SITE NUMBER 373045122292801 LOCAL NUMBER 005S006W11E03M

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		DATE	WATER LEVEL
OCT 02, 1979	25.69	S	APR 16, 1980	17.34 S S

SITE NUMBER 373338122191301 LOCAL NUMBER 004S004W29B01M

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		DATE	WATER LEVEL
OCT 02, 1979	44.8		MAY 08, 1980	53.04

S NEARBY, PUMPING

F FLOWING

## SANTA CLARA COUNTY

SITE NUMBER 370048121344701 LOCAL NUMBER 0115004E06D01M

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 41. FEET BELOW LAND SURFACE DATUM APR 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	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 1979	76.	JAN 16, 1980	59.	APR 16, 1980	41.	JUL 21, 1980	61.
NOV 14	70.	FEB 20	50.	MAY 16	45.	AUG 19	67.
DEC 20	66.	MAR 19	43.	JUN 15	54.	SEP 17	64.

SITE NUMBER 371044121414701 LOCAL NUMBER 0095002E01J01M

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	DATE	WATER LEVEL
NOV 27, 1979	33.0	MAR 24, 1980	23.0	MAY 27, 1980	26.9	SEP 10, 1980	27.9

SITE NUMBER 372349121564701 LOCAL NUMBER 0065001W23E01M

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	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 19, 1979	36.53	JAN 28, 1980	18.11	MAR 28, 1980	12.65	MAY 23, 1980	25.28

SITE NUMBER 372640122084901 LOCAL NUMBER 0065003W01D10M

IN PALO ALTO. DRILLED MUNICIPAL WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM 14 IN, DEPTH FT, CASED TO 750 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	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 02, 1980	19.0	FEB 01, 1980	18.0	MAR 03, 1980	16.0	APR 01, 1980	13.0



## SANTA CRUZ COUNTY

SITE NUMBER 365255121475801 LOCAL NUMBER 012S001E13R01M

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	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 15, 1979	14.78 S	FEB 17, 1980	8.18 S	JUN 18, 1980	24.67 R S	SEP 22, 1980	19.02 S
DEC 17	11.72 S	MAR 17	9.81 S	JUL 14	22.16 S		
JAN 16, 1980	9.68 S	APR 15	15.66 S	15	25.79 S		
FEB 14	9.09 S	MAY 13	15.01 S	AUG 15	26.32 S		

SITE NUMBER 365425121452201 LOCAL NUMBER 012S002E09C02M

IN WATSONVILLE. DRILLED MUNICIPAL WATER-TABLE WELL IN PURISIMA FORMATION OF PLEISTOCENE 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
OCT 1979	50.0	DEC 1979	44.0	FEB 1980	38.0	APR 1980	43.0
NOV	46.0	JAN 1980	41.0	MAR	40.0		

SITE NUMBER 365446121412001 LOCAL NUMBER 012S003E06N02M

4 MILES EAST OF WATSONVILLE. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM 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	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1979	53.89 S	JAN 19, 1980	46.70 S	APR 18, 1980	49.44 R S	JUL 16, 1980	52.48 R S
NOV 20	51.14 S	FEB 19	44.47 S	MAY 16	45.64 S	AUG 13	52.22 S
DEC 20	50.39 S	MAR 18	42.10 S	JUN 18	48.24 S	SEP 24	50.92 S

SITE NUMBER 365702121464001 LOCAL NUMBER 011S002E29F02M

ABOUT 2.5 MILES NORTHWEST OF WATSONVILLE. DRILLED IRRIGATION WATER-TABLE WELL IN AROMAS RED 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	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1979	115.98 S	JAN 17, 1980	115.83 V	APR 16, 1980	122.5 R V	JUL 21, 1980	116.42 V
NOV 20	116.86 V	FEB 15	114.6 V	MAY 19	124.2 R V	AUG 14	116.78 R S
DEC 18	116.37 R V	MAR 19	120.7 V	JUN 18	121.6 V	SEP 23	116.3 V

R RECENTLY PUMPED S NEARBY, PUMPING V OIL ON WATER, MEASUREMENT QUESTIONABLE

## SANTA CRUZ COUNTY--CONTINUED

SITE NUMBER 365733122050801 LOCAL NUMBER 011S002W21F03M

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		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 22, 1979	184.12	S	JAN 21, 1980	143.85	S	APR 22, 1980	147.75	R S	JUL 18, 1980	154.32	R S
NOV 26	150.27		FEB 20	141.02	S	MAY 15	143.52	S	AUG 20	162.8	R S
DEC 19	147.19	S	MAR 20	148.68	S	JUN 20	140.05	S	SEP 26	170.75	R S

SITE NUMBER 365934121572601 LOCAL NUMBER 011S001W10C01M

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		DATE	WATER LEVEL	
JUN 06, 1980	64.0		SEP 11, 1980	63.3	S

## 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, CASSED 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 01, 1979	61.4		MAR 27, 1980	61.2	

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		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 12, 1979	11.5		JAN 29, 1980	5.7		APR 30, 1980	6.6		AUG 26, 1980	9.0
26	11.5		FEB 26	2.0		MAY 28	6.2			
NOV 26	11.6		MAR 18	5.0		JUN 25	6.9			
DEC 18	11.7		27	4.5		JUL 30	7.8			

R RECENTLY PUMPED

S NEARBY, PUMPING

## 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 16, 1979	14.1	MAR 26, 1980	5.8

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	DATE	WATER LEVEL
OCT 05, 1979	58.0	MAR 21, 1980	37.1

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 16, 1979	20.6	MAR 26, 1980	14.5

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	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 1979	33.0	JAN 29, 1980	14.2	APR 29, 1980	17.4	JUL 29, 1980	26.6
NOV 28	23.6	FEB 28	15.8	MAY 29	17.8	AUG 27	26.2
DEC 18	21.7	MAR 21	17.4	JUN 26	25.1	SEP 25	31.7

## SONOMA COUNTY--CONTINUED

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
APR 28, 1980	20.73	S	SEP 25, 1980	24.62 S

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 03, 1979	21.7		MAR 19, 1980	13.9

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 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 03, 1979	11.5		MAR 19, 1980	4.8

S NEARBY, PUMPING

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)
373840121532901	003S001E29E03M	110ALVM	79-10-18	1530	28.70	155	1460	7.1	17.0
		110ALVM	80-02-04	1600	20.60	155	1070	7.3	15.5
		110ALVM	80-06-17	1500	--	155	1200	--	16.0
		110ALVM	80-09-11	1500	--	155	--	--	--
374102121493201	003S001E11J01M	110ALVM	79-11-27	1200	88.00	207	830	7.6	16.0
		110ALVM	80-06-04	1200	--	207	830	--	17.0
374112121485001	003S001E12F01M	110ALVM	79-11-27	1300	96.20	240	500	7.3	17.0
		110ALVM	80-06-04	1100	--	240	950	--	17.0
		110ALVM	80-08-15	1000	--	240	810	--	17.0

DATE OF SAMPLE	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)	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)
79-10-18	--	--	--	--	--	--	--	--	--	--	180	--
80-02-04	480	65	110	51	100	31	2.0	2.1	420	89	130	.1
80-06-17	--	--	--	--	--	--	--	--	--	--	110	--
80-09-11	--	--	--	--	--	--	--	--	--	--	110	--
79-11-27	--	--	--	--	--	--	--	--	--	--	70	--
80-06-04	360	76	47	58	33	17	.8	1.6	280	43	62	.1
79-11-27	--	--	--	--	--	--	--	--	--	--	41	--
80-06-04	410	75	54	68	43	18	.9	2.7	340	47	66	.1
80-08-15	--	--	--	--	--	--	--	--	--	--	57	--

DATE OF SAMPLE	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)	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)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS Fe)	MANGANESE, DIS-SOLVED (UG/L AS Mn)
79-10-18	--	860	--	1.17	.24	.010	.25	--	--	--	--
80-02-04	24	754	764	1.03	--	--	.53	--	1600	220	720
80-06-17	--	689	--	.94	.52	.010	.53	20	--	--	--
80-09-11	--	682	--	.93	1.3	.020	1.3	--	--	--	--
79-11-27	--	487	--	.66	7.1	.010	7.1	--	--	--	--
80-06-04	25	459	468	.62	--	--	6.6	7.3	320	10	<3
79-11-27	--	300	--	.41	1.4	.010	1.4	--	--	--	--
80-06-04	25	541	551	.74	--	--	9.0	12	480	50	10
80-08-15	--	459	--	.62	6.2	.000	6.2	--	--	--	--

## CONTRA COSTA COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TEMPERATURE, WATER (DEG C)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)
380129121543901	002N001E18D01M	110ALVM	80-04-11	1250	--	125	881	25.5	79
			80-09-25	1200	--	125	643	21.5	64
380049122015301	002N002W13P01M	110ALVM	80-04-11	1545	23.90	139	1330	19.5	190
			80-09-25	1300	25.70	139	1330	22.0	170

Geologic unit (aquifer):

110ALVM - Alluvium, Quaternary age.

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## DEL NORTE COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)
413043124020701	013N001E15R01H	--	80-09-24	1030	18.40	200	105	7.2	14.5
414643124115601	016N001W17K01H	112BTTR	80-09-24	1345	21.40	39	250	6.6	18.0
415332124104201	017N001W04J01H	--	80-09-24	1230	--	35	345	7.3	16.0

STATION NUMBER	DATE OF SAMPLE	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)	SODIUM AD-SORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
413043124020701	80-09-24	25	4	5.9	2.5	6.5	35	.6	.7	21
414643124115601	80-09-24	72	0	5.8	14	14	29	.7	1.0	73
415332124104201	80-09-24	160	2	7.1	35	4.4	6	.2	.6	160

STATION NUMBER	DATE OF SAMPLE	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)
413043124020701	80-09-24	7.7	.1	10	56	.08	1.1	0	40	6
414643124115601	80-09-24	15	.1	24	130	.18	2.1	30	1400	70
415332124104201	80-09-24	7.1	.1	32	191	.26	1.3	20	10	8

Geologic unit (aquifer):

112BTTR - Battery Formation.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## HUMBOLDT COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)
401843124170301	002S002W03E01H	111ALCR	80-09-08	1630	16.30	50	392	7.7	19.0
401928124171801	002S002W09H01H	111ALCR	80-09-08	1555	13.02	34	174	6.2	17.5
403634124135701	003N001W30N01H	110ALVM	80-09-23	1430	15.80	48	650	6.9	19.5
404427124123001	004N001W08P01H	112CRLT	80-09-25	0800	--	448	160	7.9	15.0
404353124105001	004N001W16H01H	112HKTN	80-09-25	0705	38.70	210	440	7.9	15.5
405302124063201	006N001E19Q01H	110ALVM	80-09-24	1540	15.50	108	385	7.5	18.0
412150124010301	011N001E02R01H	111ALCR	80-09-24	0830	--	53	165	7.0	14.0

STATION NUMBER	DATE OF SAMPLE	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)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
401843124170301	80-09-08	150	0	45	8.8	24	26	.9	.8	180	1.2
401928124171801	80-09-08	58	0	16	4.5	11	29	.6	.7	74	4.5
403634124135701	80-09-23	290	31	67	30	11	8	.3	3.2	260	33
404427124123001	80-09-25	49	0	5.7	8.5	11	32	.7	1.7	54	1.1
404353124105001	80-09-25	170	0	30	22	29	27	1.0	6.4	190	.5
405302124063201	80-09-24	170	0	47	12	9.4	11	.3	1.2	180	1.9
412150124010301	80-09-24	42	0	9.6	4.4	17	46	1.1	.6	62	1.1

STATION NUMBER	DATE OF SAMPLE	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)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS Fe)	MANGANESE, DIS-SOLVED (UG/L AS Mn)
401843124170301	80-09-08	23	.2	16	227	.31	.00	170	10	40
401928124171801	80-09-08	7.5	.2	23	119	.16	.00	90	6800	280
403634124135701	80-09-23	17	.1	16	343	.47	2.0	10	150	10
404427124123001	80-09-25	18	.2	19	98	.13	.06	20	290	40
404353124105001	80-09-25	30	.1	46	295	.40	3.8	80	270	30
405302124063201	80-09-24	12	.1	22	215	.29	.00	80	410	510
412150124010301	80-09-24	14	.1	22	108	.15	.00	140	2000	160

NOTE: 002S002W03E01H is a chlorinated sample.

## Geologic unit (aquifer):

111ALCR - Alluvium of the Coast Range, Pliocene-Holocene.  
 110ALVM - Alluvium, Quaternary age.  
 112CRLT - Carlotta Formation.  
 112HKTN - Hookton Formation.

QUALITY OF GROUND WATER  
WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
MENDOCINO COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)
385455123420201	012N017W12L01M	--	80-09-30	1650	13.83	85	134	5.9	15.0
385917123070401	013N011W18E01M	110ALVM	80-09-09	1400	13.00	52	380	6.8	16.5
385645123405701	013N016W31M01M	111TRRC	80-09-30	1555	13.25	33	491	6.3	16.5
392830123474501	019N017W30Q01M	111TRRC	80-07-16	1540	--	25	460	7.0	19.0
393837123281801	021N014W30M01M	111ALVMY	80-07-17	1400	--	23	215	6.6	21.5

STATION	NUMBER	DATE OF SAMPLE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, DIS- 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)	SULFATE DIS- SOLVED (MG/L AS SO4)
385455123420201	80-09-30		14	--	1.9	2.2	22	75	2.6	1.4	--	1.2
385917123070401	80-09-09		160	0	26	24	20	21	.7	1.3	170	17
385645123405701	80-09-30		--	--	--	--	--	--	--	.1	46	15
392830123474501	80-07-16		70	0	14	8.4	78	68	4.1	7.4	120	43
393837123281801	80-07-17		81	0	11	13	12	24	.6	.6	94	.7

STATION NUMBER	DATE OF SAMPLE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
385455123420201	80-09-30	19	--	20	82	.18	--	20	20	1
385917123070401	80-09-09	14	.2	18	237	.32	2.8	2000	<10	<1
385645123405701	80-09-30	110	.1	--	--	--	5.6	10	--	--
392830123474501	80-07-16	47	.1	27	304	.41	1.6	140	<10	50
393837123281801	80-07-17	11	.0	21	133	.18	1.7	40	<10	2

Geologic unit (aquifer):

110ALVM - Alluvium, Quaternary age.  
111TRRC - Terrace deposits.  
111ALVMY - Alluvium, younger.



## WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## SANTA CRUZ COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)
365934121572601	011S001W10C01M	111TRRC	80-09-11	1315	63.30	350	465	7.4	20.5
365702121464001	011S002E29F02M	112ARMS	80-04-17	1025	--	656	443	7.5	16.0
			80-08-13	1515	--	656	444	7.6	16.5
365733122050801	011S002W21F03M	122SMRG	79-10-22	1200	--	395	688	6.6	17.0
			79-11-26	1350	--	395	538	7.0	16.0
			79-12-19	1420	--	395	498	7.3	13.5
			80-01-21	1605	--	395	489	7.3	15.5
			80-02-20	1600	--	395	396	7.2	14.0
			80-03-20	1550	--	395	389	7.5	14.0
			80-04-22	0830	147.75	395	366	7.3	14.5
			80-05-15	1550	143.52	395	660	6.8	16.5
			80-06-19	1523	--	395	672	6.6	18.0
			80-07-17	1157	--	395	703	6.5	17.5
			80-08-20	0855	162.80	395	680	6.7	17.5
			80-09-26	0802	171.75	395	645	6.7	17.5
365255121475801	012S001E13R01M	112ARMS	79-10-17	1000	--	370	450	7.8	17.5
			79-11-15	1340	--	370	470	7.2	18.5
			79-12-17	1017	--	370	478	7.5	16.0
			80-01-16	1043	--	370	437	6.9	17.0
			80-02-14	1003	--	370	469	7.1	13.0
			80-03-17	1110	--	370	486	7.5	16.5
			80-04-15	1030	15.66	370	459	7.6	19.0
			80-05-13	1033	15.01	370	475	7.5	14.0
			80-06-16	1026	--	370	465	7.5	19.0
			80-07-14	1045	22.16	370	480	7.7	16.5
			80-08-15	1420	26.32	370	486	7.7	15.5
			80-09-22	1032	19.02	370	486	7.5	21.0
365446121412001	012S003E06N02M	111ALCRY	79-10-19	0940	--	123	1265	7.1	18.0
			79-11-20	1645	--	123	1300	6.9	12.5
			79-12-20	1113	--	123	1302	7.2	10.5
			80-01-19	0855	--	123	1274	6.9	10.5
			80-04-18	0930	49.44	123	1620	7.5	18.0
			80-05-16	1150	45.64	123	1690	7.4	17.5
			80-06-18	1135	48.24	123	1660	7.3	17.0
			80-07-16	1135	52.48	123	1740	7.4	18.0
			80-08-13	0917	52.22	123	1600	7.3	17.0
			80-09-24	0940	50.92	123	1670	7.5	17.0

## Geologic unit (aquifer):

111TRRC - Terrace deposits.

112ARMS - Aromas Sand, Pleistocene age.

122SMRG - Santa Margarita Formation.

111ALCRY - Alluvium of the Coast Range, younger (Pleistocene-Holocene).

QUALITY OF GROUND WATER  
 WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980  
 SANTA CRUZ COUNTY--CONTINUED

STATION	NUMBER	DATE OF SAMPLE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
365934121572601		80-09-11	22
365702121464001		80-04-17	12
		80-08-13	14
365733122050801		79-10-22	53
		79-11-26	53
		79-12-19	50
		80-01-21	46
		80-02-20	38
		80-03-20	33
		80-04-22	34
		80-05-15	52
		80-06-19	50
		80-07-17	52
		80-08-20	54
		80-09-26	55
365255121475801		79-10-17	18
		79-11-15	23
		79-12-17	18
		80-01-16	18
		80-02-14	17
		80-03-17	17
		80-04-15	15
		80-05-13	17
		80-06-16	17
		80-07-14	16
		80-08-15	17
		80-09-22	19
365446121412001		79-10-19	79
		79-11-20	81
		79-12-20	71
		80-01-19	75
		80-04-18	77
		80-05-16	79
		80-06-18	83
		80-07-16	85
		80-08-13	82
		80-09-24	90

## QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## SONOMA COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TIME	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (NTU)
383104122523001	008N009W02R01M	111ALVM	79-11-29	1450	--	254	7.2	18.5	.20
			80-01-31	1130	--	246	7.4	14.5	.60
			80-06-19	1300	--	283	7.1	13.5	.80
			80-08-21	1200	--	274	7.0	19.5	.50
383310122511801	008N009W09J01M	111ALVM	80-04-28	1010	60	367	6.8	17.0	1.0
			80-09-25	0955	60	406	6.7	18.0	1.3
383536122520401	009N009W28N02M	111ALVM	80-04-28	1110	70	372	7.0	17.0	14
			80-09-25	1030	70	380	6.8	17.0	1.2
383655122530702	009N009W20E03M	111ALVM	79-11-29	1415	--	250	7.2	15.0	2.5
			80-01-31	1205	--	253	7.3	12.0	6.6
			80-06-19	1145	--	247	7.1	17.0	.90
			80-08-21	1245	--	246	7.2	18.0	.60
383958122554801	010N010W35R01M	111ALVM	80-04-28	1215	--	103	6.3	18.0	4.6
			80-09-25	1430	--	114	6.1	21.0	1.4
384221122574401	010N010W22D02M	111ALVM	80-04-28	1250	--	237	6.6	17.5	1.4
			80-09-25	1340	--	235	6.6	20.0	.60

DATE OF SAMPLE	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)	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)
79-11-29	120	0	23	15	9.5	15	.4	1.1	120	14	5.4	.2
80-01-31	110	0	22	13	7.2	13	.3	.9	110	14	4.7	.1
80-06-19	130	2	25	17	9.1	13	.3	1.1	130	14	6.2	.2
80-08-21	120	0	24	15	8.4	13	.3	1.2	130	14	5.0	.1
80-04-28	180	28	35	22	8.3	9	.3	1.4	150	23	6.6	.1
80-09-25	200	30	39	25	8.9	9	.3	1.2	170	26	8.0	.1
80-04-28	170	3	23	28	13	14	.4	.7	170	18	8.1	.2
80-09-25	180	0	23	29	13	14	.4	.5	180	18	7.9	.2
79-11-29	110	0	19	16	13	20	.5	.7	130	7.0	6.3	.2
80-01-31	110	0	18	15	13	21	.5	.7	130	2.4	6.4	.2
80-06-19	110	0	19	15	11	18	.5	.7	110	13	5.3	.2
80-08-21	110	0	18	15	12	20	.5	.7	130	4.3	6.5	.2
80-04-28	36	12	7.0	4.5	6.4	28	.5	.4	24	11	5.9	.1
80-09-25	40	8	7.8	5.0	6.6	26	.5	.3	32	11	5.6	.1
80-04-28	96	14	17	13	10	18	.4	.6	82	23	6.6	.2
80-09-25	100	13	17	15	9.9	17	.4	.5	91	22	6.2	.1

Geologic unit (aquifer):

111ALVM - Alluvium, Holocene age.

QUALITY OF GROUND WATER  
WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SONOMA COUNTY--CONTINUED

DATE OF SAMPLE	SILICA, DIS- SOLVED (MG/L AS SiO2)	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)	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)	MERCURY DIS- SOLVED (UG/L AS HG)
79-11-29	14	156	.21	.31	0	320	3	0	0	20	0	.0
80-01-31	13	145	.20	.83	0	240	<1	0	1	<10	4	.1
80-06-19	17	168	.24	.41	0	260	1	0	2	<10	5	.0
80-08-21	17	165	.22	.25	1	570	<1	10	0	<10	3	.0
80-04-28	22	223	.30	3.3	--	260	--	--	--	20	--	--
80-09-25	22	235	.32	.50	--	350	--	--	--	<10	--	--
80-04-28	25	220	.30	.41	--	150	--	--	--	30	--	--
80-09-25	25	227	.31	.42	--	190	--	--	--	20	--	--
79-11-29	20	163	.22	.10	0	280	2	0	0	440	0	.0
80-01-31	24	159	.22	.05	0	290	<1	0	0	40	0	.0
80-06-19	21	153	.21	.15	0	200	<1	0	1	60	3	.9
80-08-21	23	159	.22	.00	0	360	<1	0	0	200	3	.0
80-04-28	21	77	.10	1.5	--	20	--	--	--	60	--	--
80-09-25	23	79	.11	--	--	40	--	--	--	40	--	--
80-04-28	28	154	.21	1.4	--	40	--	--	--	20	--	--
80-09-25	27	161	.22	2.0	--	150	--	--	--	30	--	--

DATE OF SAMPLE	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
79-11-29	<3	4.6
80-01-31	6	4.5
80-06-19	50	5.5
80-08-21	9	8.8
80-04-28	--	--
80-09-25	--	4.0
80-04-28	--	.7
80-09-25	--	5.4
79-11-29	190	3.5
80-01-31	320	2.6
80-06-19	1100	1.9
80-08-21	930	1.9
80-04-28	--	1.6
80-09-25	--	--
80-04-28	--	2.5
80-09-25	--	4.0

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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)	$2.54 \times 10^1$	millimeters (mm)
	$2.54 \times 10^{-2}$	meters (m)
feet (ft)	$3.048 \times 10^{-1}$	meters (m)
miles (mi)	$1.609 \times 10^0$	kilometers (km)
<i>Area</i>		
acres	$4.047 \times 10^3$	square meters (m <sup>2</sup> )
	$4.047 \times 10^{-1}$	square hectometers (hm <sup>2</sup> )
	$4.047 \times 10^{-3}$	square kilometers (km <sup>2</sup> )
square miles (mi <sup>2</sup> )	$2.590 \times 10^0$	square kilometers (km <sup>2</sup> )
<i>Volume</i>		
gallons (gal)	$3.785 \times 10^0$	liters (L)
	$3.785 \times 10^0$	cubic decimeters (dm <sup>3</sup> )
	$3.785 \times 10^{-3}$	cubic meters (m <sup>3</sup> )
million gallons	$3.785 \times 10^3$	cubic meters (m <sup>3</sup> )
	$3.785 \times 10^{-3}$	cubic hectometers (hm <sup>3</sup> )
cubic feet (ft <sup>3</sup> )	$2.832 \times 10^1$	cubic decimeters (dm <sup>3</sup> )
	$2.832 \times 10^{-2}$	cubic meters (m <sup>3</sup> )
cfs-days	$2.447 \times 10^3$	cubic meters (m <sup>3</sup> )
	$2.447 \times 10^{-3}$	cubic hectometers (hm <sup>3</sup> )
acre-feet (acre-ft)	$1.233 \times 10^3$	cubic meters (m <sup>3</sup> )
	$1.233 \times 10^{-3}$	cubic hectometers (hm <sup>3</sup> )
	$1.233 \times 10^{-6}$	cubic kilometers (km <sup>3</sup> )
<i>Flow</i>		
cubic feet per second (ft <sup>3</sup> /s)	$2.832 \times 10^1$	liters per second (L/s)
	$2.832 \times 10^1$	cubic decimeters per second (dm <sup>3</sup> /s)
	$2.832 \times 10^{-2}$	cubic meters per second (m <sup>3</sup> /s)
gallons per minute (gal/min)	$6.309 \times 10^{-2}$	liters per second (L/s)
	$6.309 \times 10^{-2}$	cubic decimeters per second (dm <sup>3</sup> /s)
	$6.309 \times 10^{-5}$	cubic meters per second (m <sup>3</sup> /s)
million gallons per day	$4.381 \times 10^1$	cubic decimeters per second (dm <sup>3</sup> /s)
	$4.381 \times 10^{-2}$	cubic meters per second (m <sup>3</sup> /s)
<i>Mass</i>		
tons (short)	$9.072 \times 10^{-1}$	megagrams (Mg) or metric tons

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