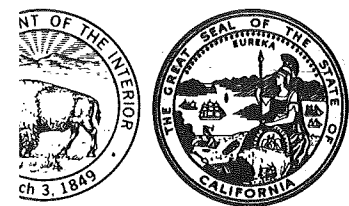


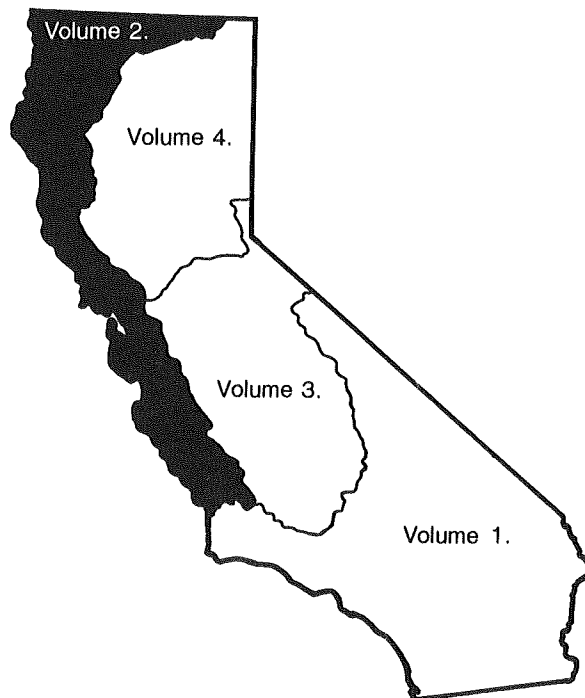
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Water Resources Data California

Water Year 1981

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-81-2
Prepared in cooperation with the California Department of
Water Resources and with other agencies

CALENDAR FOR WATER YEAR 1981

1980

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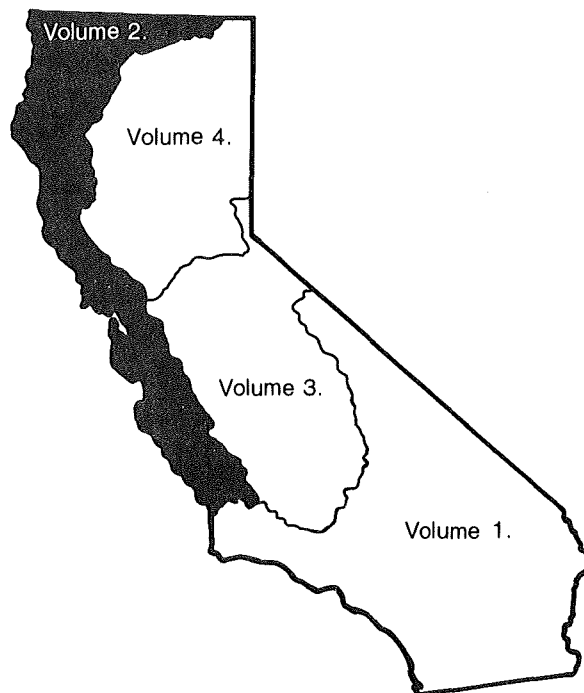
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Volume 2. Pacific Slope Basins from Arroyo Grande
to Oregon State Line except
Central Valley



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-81-2
Prepared in cooperation with the California Department of
Water Resources and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

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1982

PREFACE

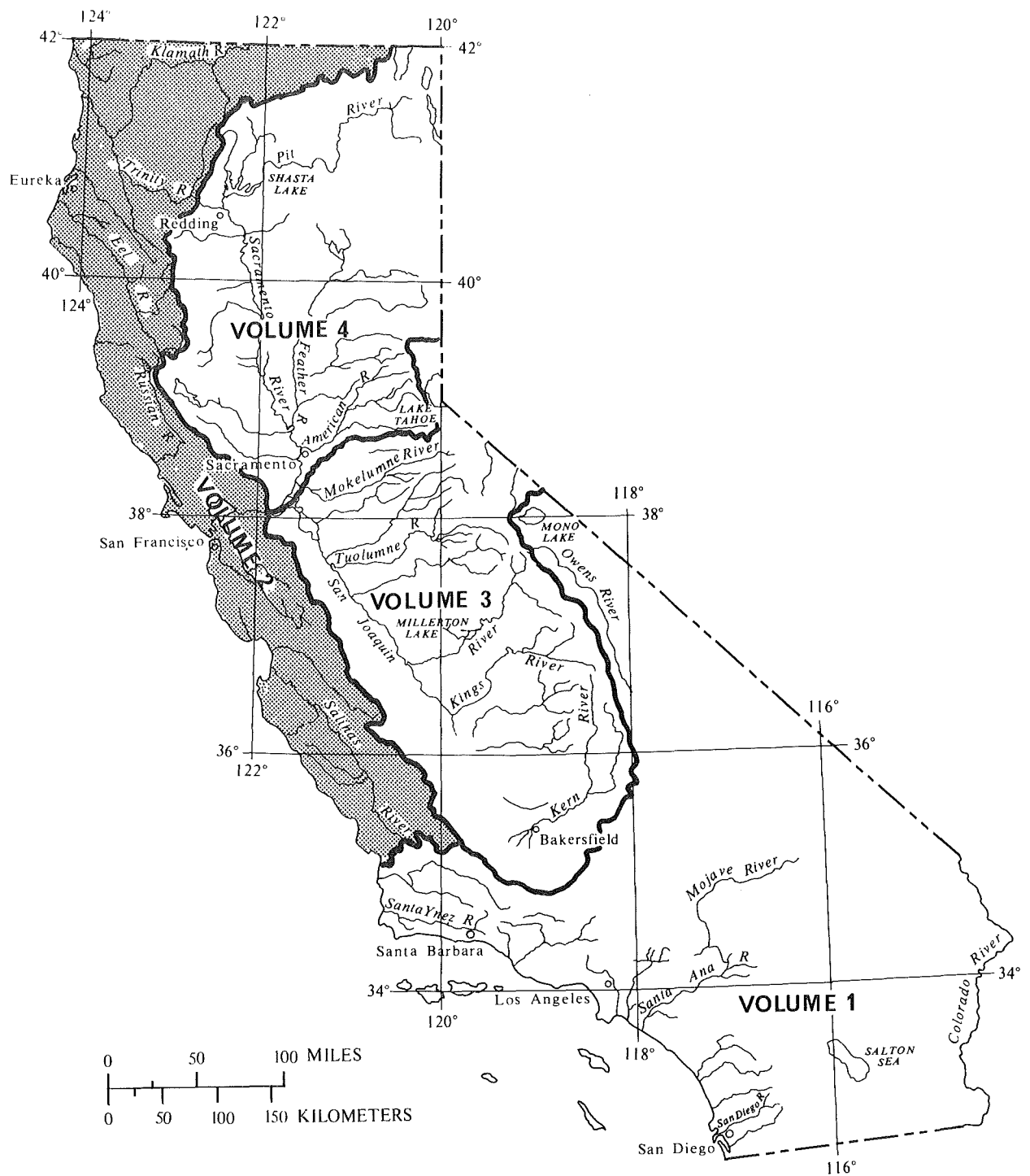
This report was prepared by personnel of the California District, Water Resources Division, U.S. Geological Survey, under the supervision of Richard M. Bloyd and Timothy J. Durbin, successive District Chiefs, and J. D. Bredehoeft, Regional Hydrologist, Western Region. It was done in cooperation with the California Department of Water Resources and 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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SURFACE-WATER AND WATER-QUALITY STATIONS
IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[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, 1981

VOLUME 2

INTRODUCTION

Water-resources data for the 1981 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-81-2." 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 (916) 484-4148.

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 Water Resources, R. B. Robie, 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.
 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 Planning Department, Kris Schenk, Director.
 Santa Cruz County Flood Control and Water Conservation District,
 D. A. Porath, District Engineer.
 Soquel Creek County Water District, Robert M. Johnson, Engineer-Manager.

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

The following organization aided in collecting records: Pacific Gas and Electric Co.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

Runoff during the 1981 water year in the area covered by this volume was below normal for the entire year, averaging 54 percent of the 30-year median. This compares to 221 percent of the preceeding year and 16 percent for the 1977 drought year. Runoff at selected sites (index stations) in California is shown in figure 1. Runoff ranged from 82 percent of the median for the Arroyo Seco basin in the central-coastal area to 38 percent of the median for the Saratoga Creek and San Lorenzo Creek index stations in the San Francisco Bay area. Runoff at these latter two stations fell below 10 percent of the median during the 1976-77 drought.

There were no peaks of record during the year, and no flooding was reported. Contents of the 10 major reservoirs in northern and central California were 128 percent of the historical average at the start of the year and declined to 93 percent of the average at yearend.

Precipitation 2 months prior to the start of the 1981 water year was below normal in the coastal areas and continued below normal for most of the year. The first significant precipitation occurred during the January 19-23 and 26-29 general storms that raised the precipitation above the monthly average for the north-coast area. Additional storms late in March provided above average precipitation for the north- and central-coastal areas. Below average precipitation continued for the remainder of the year, resulting in an annual precipitation that was 9 percent below average for the 1981 water year.

Ground Water

The geography and geology of California are sufficiently complex that a brief summary of ground-water conditions in the State is difficult. Descriptions of conditions in specific basins and valleys apply only to those areas and may not apply to others.

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

Ground water throughout central- and north-coastal California recovered to levels comparable with those in 1978, 1979, and 1980 water years. Water levels during summer and autumn showed seasonal declines comparable to those recorded in the last 3 years.

Water Quality

Water quality during the 1981 water year in the area covered by this volume was similar to previous years. Generally, the dissolved-solids concentration of surface waters east and south of San Francisco Bay are greater than 200 mg/L. Dissolved-solids concentrations were greatest in the Pajaro River at Chittenden (11159000) where the median concentration was 920 mg/L, and the streams in the Alameda Creek basin where the median concentration ranged from 258-876 mg/L.

Environmental Protection Agency (EPA) water-quality criteria were exceeded in some places. Streams in the Alameda Creek basin frequently had boron concentrations in excess of 750 $\mu\text{g/L}$, the EPA water-quality criterion for long-term irrigation of sensitive crops such as citrus. Mercury and lead concentrations in storm runoff at Castro Valley Creek at Hayward (11181008) usually were above EPA water-quality criteria for domestic water supply (2.0 $\mu\text{g/L}$, mercury; 50 $\mu\text{g/L}$, lead). A September sample from the center sampling site on Calero Reservoir near New Almaden (11166740) had a dissolved mercury concentration of 4.7 $\mu\text{g/L}$. At three sampling sites on Llagas Creek (11153500, 11153530, and 11153555), two sampling sites on the Guadalupe River (11167572 and 11169000), and one sampling site each on Los Gatos Creek (11168660) and Coyote Creek (11171500), malathion concentrations were more than 0.1 $\mu\text{g/L}$, the EPA water-quality criterion for protection of freshwater and marine aquatic life. A March sample from the Guadalupe River at San Jose (11169000) had a chlordane concentration of 0.01 $\mu\text{g/L}$, which is above the EPA water-quality criteria for protection of freshwater and marine aquatic life (0.01 $\mu\text{g/L}$ and 0.004 $\mu\text{g/L}$, respectively).

The fecal coliform bacteria objective for streams in the San Francisco Bay area (log mean of 200/100 mL based on the least five samples during a 30-day period) was exceeded at Llagas Creek at Machado School near Morgan Hill (11153530); Guadalupe Creek at Guadalupe (11167500); Guadalupe River at Alamitos Recharge Facility, at San Jose (11167572); Los Gatos Creek at Lark Avenue (11168660); and Guadalupe River at San Jose (11169000).

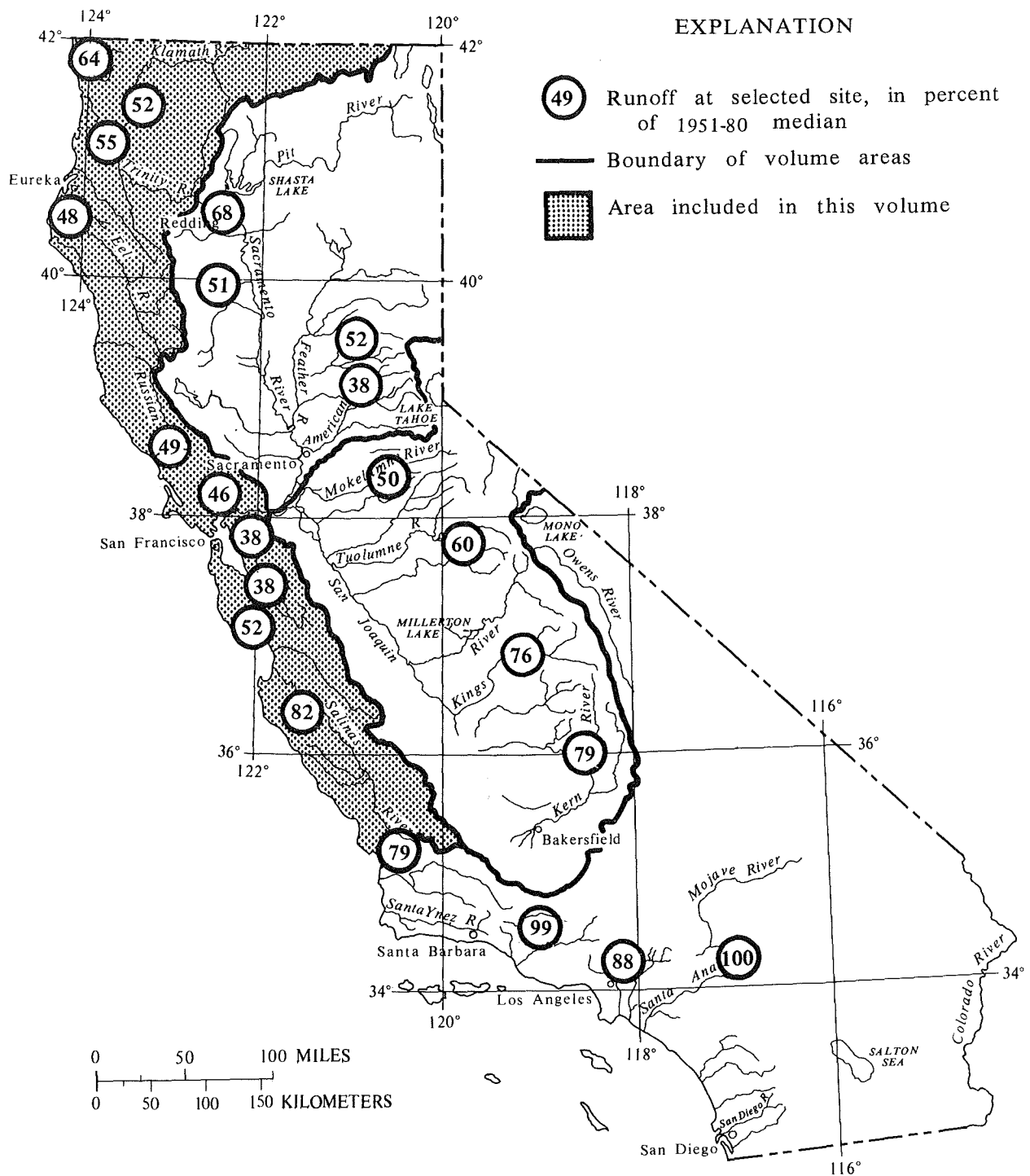


FIGURE 1. — Runoff for the 1981 water year.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, ground-water, and other hydrologic data, as used in this report, are defined as 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 of feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. For the membrane filter method they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C \pm 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. For the membrane filter method they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C \pm 0.05°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 organism (invertebrates) are the group of organisms living in or on the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish.

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

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

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

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

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

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

Bottom material: See Bed material.

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

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

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

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

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

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

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

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

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

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

Cubic foot per second (FT³/S, ft³/s), is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

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

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

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

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

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

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

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

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

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

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

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

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

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

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

where I_0 is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

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

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

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

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

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

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

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

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from 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 (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

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

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

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

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

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

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

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

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

Periphyton are microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, the periphyton also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

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

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

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

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

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

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

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

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

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

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

Milligrams of carbon per area or volume per unit time [mg C/(m².time) for periphyton and macrophytes and mg C/(m³.time) for phytoplankton] are the units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light- and dark-bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Primary productivity (continued)

Milligrams of oxygen per area or volume per unit time [$\text{mg O}_2/(\text{m}^2 \cdot \text{time})$ for periphyton and macrophytes and $\text{mg O}_2/(\text{m}^3 \cdot \text{time})$ for phytoplankton] are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

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

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

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

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

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

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

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft or 0.09 m above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

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

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

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

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

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

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

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

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

Substrate is the physical surface upon which an organism lives.

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

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

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

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

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

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

Suspended, recoverable (continued)

To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

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

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

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

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

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

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

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

Total load (tons) is the total amount of any individual constituent, as measured by dry mass or volume, that is dissolved 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.

Total, recoverable (continued)

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.).

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.

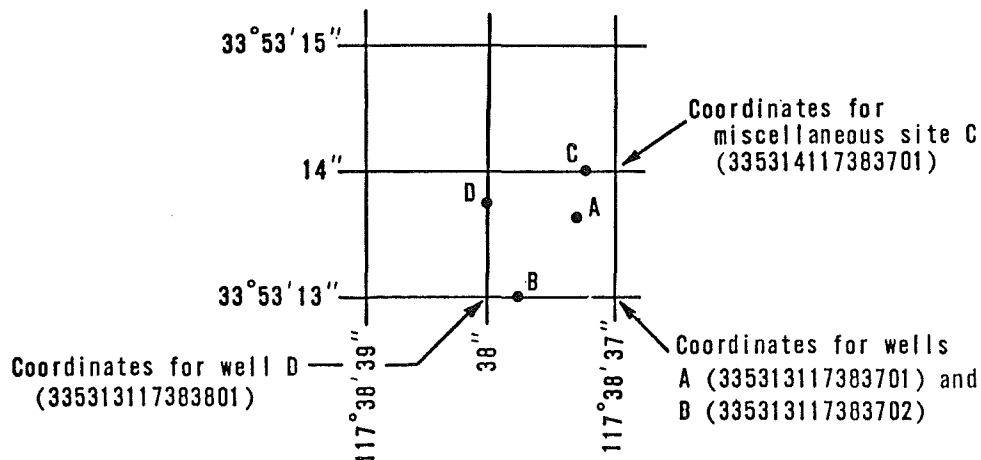


FIGURE 2.--System for numbering wells and miscellaneous sites (latitude and longitude).

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.

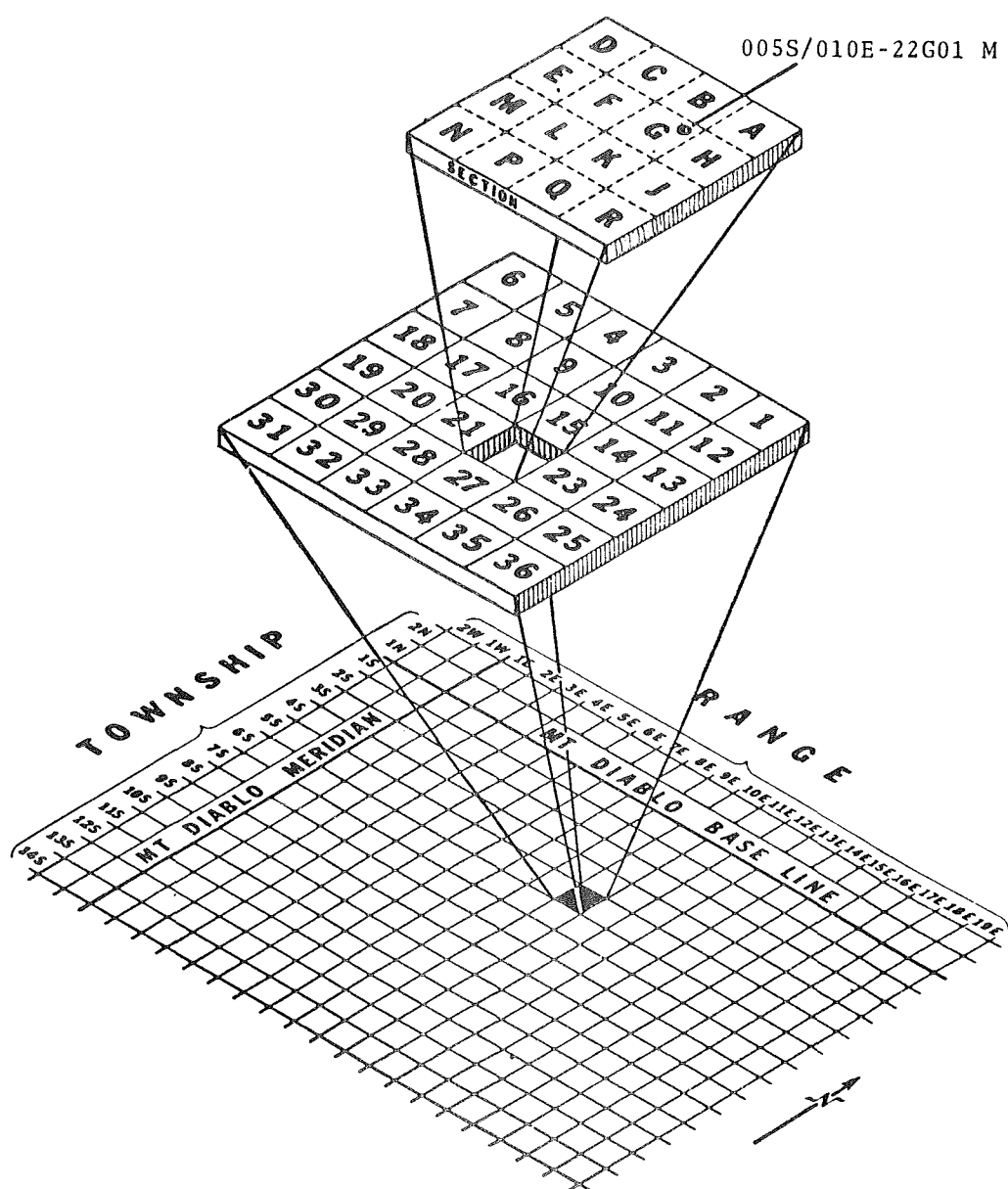


FIGURE 3.--California well-numbering system.

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 9.

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.

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

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

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

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of field data and computed results

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

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

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

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

Other data available

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

Special reports of 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 agencies operating them is published in California Department of Water Resources Bulletin 230-81, "Index to Sources of Hydrologic Data." The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of such sites. Information on records at specific sites can be obtained upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The water-quality records are given immediately following 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 (lstd). National Geodetic Vertical Datum is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum referred to National Geodetic Vertical Datum is given in the well description. The height of the measuring point (MP above or below land-surface datum), if known, is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

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

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

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.
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- 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. Greenson, 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.

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

LOCATION.--Lat 35°11'03", long 120°26'11", in Arroyo Grande Grant, San Luis Obispo County, Hydrologic Unit 18060006, on right bank at county road bridge 100 ft (30 m) upstream from Phoenix Creek, 8.8 mi (14.2 km) northeast of Arroyo Grande.

DRAINAGE AREA.--13.5 mi² (35.0 km²).

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

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

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

AVERAGE DISCHARGE.--14 years, 2.91 ft³/s (0.082 m³/s), 2,110 acre-ft/yr (2.60 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 40 ft³/s (1.1 m³/s) (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	2215	*164 4.64	6.02 1.835	Mar. 19	1000	102 2.89	5.63 1.716
Mar. 5	0600	41 1.16	5.13 1.564	Mar. 21	1830	102 2.89	5.63 1.716

Minimum daily discharge, 0.83 ft³/s (0.024 m³/s) Sept. 9-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.4	2.1	1.3	3.8	10	1.8	2.0	1.3	1.0	.90	.87
2	1.1	1.3	1.9	1.3	3.4	4.5	1.9	2.0	1.3	1.0	.90	.87
3	.90	.92	3.3	1.7	3.1	3.0	1.7	1.9	1.3	1.0	.90	.86
4	1.1	1.0	9.8	1.4	2.7	8.3	1.6	1.8	1.3	1.0	.90	.86
5	1.2	1.4	1.9	1.3	2.6	23	1.7	1.8	1.3	.99	.90	.86
6	1.2	1.6	1.5	1.4	2.6	4.8	1.8	1.8	1.3	.98	.91	.85
7	1.1	1.7	1.3	1.4	2.3	3.8	1.9	1.7	1.3	.98	.91	.84
8	1.1	1.7	1.3	1.4	4.9	3.2	2.0	1.7	1.2	.97	.91	.84
9	1.1	1.5	1.2	1.4	12	3.0	2.1	1.7	1.2	.97	.92	.83
10	1.1	1.6	1.3	1.4	4.0	2.8	2.2	1.7	1.2	.96	.92	.83
11	1.2	1.9	1.3	1.5	3.4	2.8	2.3	1.7	1.2	.95	.92	.83
12	1.2	1.9	1.2	1.4	3.0	3.0	2.3	1.6	1.2	.94	.92	.83
13	1.2	2.0	1.2	1.4	2.6	5.2	2.2	1.6	1.2	.93	.92	.83
14	1.2	2.0	1.3	1.2	2.5	4.0	2.3	1.6	1.2	.92	.92	.83
15	1.4	2.1	1.2	1.2	2.3	3.4	2.5	1.5	1.2	.91	.91	.83
16	1.6	2.3	1.1	1.3	2.2	3.3	2.6	1.5	1.2	.89	.90	.84
17	1.7	2.5	1.1	1.2	1.9	3.5	3.0	1.5	1.2	.89	.90	.84
18	1.7	2.3	1.2	1.1	1.8	3.8	3.9	1.5	1.1	.88	.91	.84
19	1.7	2.3	1.2	1.0	1.7	53	4.6	1.5	1.1	.88	.90	.84
20	1.6	2.2	1.1	1.1	1.4	23	3.2	1.5	1.1	.88	.90	.84
21	1.4	2.3	1.1	1.1	1.4	61	2.9	1.4	1.1	.88	.90	.84
22	1.4	2.7	1.1	3.2	1.5	44	2.7	1.4	1.1	.89	.89	.84
23	1.2	2.2	1.1	9.6	1.5	12	2.5	1.4	1.1	.89	.89	.84
24	1.1	2.0	1.1	1.3	1.9	4.5	2.4	1.4	1.1	.89	.89	.84
25	1.1	2.1	1.2	.90	6.2	3.5	2.3	1.4	1.1	.89	.88	.84
26	1.1	2.1	1.2	.85	2.4	9.7	2.2	1.4	1.1	.89	.88	.84
27	1.1	2.2	1.3	25	1.9	3.9	2.2	1.4	1.0	.89	.88	.84
28	1.1	2.2	1.4	12	2.5	2.4	2.1	1.4	1.0	.89	.88	.84
29	1.1	2.3	1.2	21	---	2.0	2.1	1.4	1.0	.90	.88	.85
30	1.1	2.4	1.1	11	---	1.8	2.1	1.3	1.0	.90	.88	.85
31	1.2	---	1.2	5.0	---	1.7	---	1.3	---	.90	.88	---
TOTAL	38.40	58.12	50.5	117.35	83.5	317.9	71.1	48.8	35.0	28.73	27.90	25.28
MEAN	1.24	1.94	1.63	3.79	2.98	10.3	2.37	1.57	1.17	.93	.90	.84
MAX	1.7	2.7	9.8	25	12	61	4.6	2.0	1.3	1.0	.92	.87
MIN	.90	.92	1.1	.85	1.4	1.7	1.6	1.3	1.0	.88	.88	.83
AC-FT.	76	115	100	233	166	631	141	97	69	57	55	50
CAL YR 1980	TOTAL	1879.00	MEAN 5.13	MAX 104	MIN .51	AC-FT 3730						
WTR YR 1981	TOTAL	902.58	MEAN 2.47	MAX 61	MIN .83	AC-FT 1790						

ARROYO GRANDE BASIN

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CA

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

DRAINAGE AREA.--21.6 mi² (55.9 km²).

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

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

REMARKS.--Records fair, except those for periods of no gage-height record or indefinite stage-discharge relationship, Apr. 24 to July 23 and Aug. 13 to Sept. 30, which are poor. Small diversions above station for domestic use.

AVERAGE DISCHARGE.--14 years, 10.5 ft³/s (0.297 m³/s), 7,610 acre-ft/yr (9.38 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 50 ft³/s (1.4 m³/s) and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 23	2145	52 1.47	4.39 1.338	Mar. 5	0830	284 8.04	4.91 1.497
Jan. 29	0445	*485 13.7	5.45 1.661	Mar. 21	1845	416 11.8	5.26 1.603
Mar. 1	1545	76 2.15	4.45 1.356				

Minimum daily discharge, 1.6 ft³/s (0.045 m³/s) Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	3.8	5.0	3.1	5.4	42	9.7	7.7	2.9	2.2	1.8	1.7
2	3.8	3.8	5.1	3.3	5.1	52	11	7.5	2.9	2.2	1.8	1.7
3	3.8	3.8	6.7	3.3	4.8	29	9.4	7.2	2.8	2.2	1.8	1.7
4	4.1	3.8	21	3.4	4.7	51	8.6	6.9	2.8	2.1	1.8	1.7
5	4.4	3.8	10	3.4	4.5	228	7.9	6.6	2.8	2.1	1.8	1.7
6	4.4	3.8	7.5	3.5	4.4	50	7.6	6.4	2.8	2.1	1.8	1.7
7	4.3	3.8	6.0	3.6	4.2	9.8	7.1	6.2	2.7	2.1	1.8	1.7
8	3.8	3.8	6.0	3.6	13	8.2	6.9	6.0	2.7	2.1	1.8	1.7
9	3.8	3.8	5.4	3.6	30	7.4	6.6	5.8	2.6	2.1	1.7	1.7
10	4.1	3.8	5.1	3.7	10	7.2	6.4	5.6	2.6	2.0	1.7	1.7
11	4.4	3.8	4.6	3.9	8.4	7.3	6.3	5.4	2.5	2.0	1.7	1.7
12	4.1	3.8	3.8	3.6	7.6	8.3	6.3	5.2	2.5	2.0	1.7	1.7
13	4.4	3.8	3.8	3.3	6.7	13	6.3	5.1	2.5	2.0	1.7	1.7
14	4.4	3.8	3.8	3.1	6.3	10	6.3	4.9	2.5	2.0	1.7	1.7
15	5.4	3.8	3.8	3.0	5.8	8.8	6.6	4.7	2.4	2.0	1.7	1.7
16	6.0	3.8	3.8	3.0	5.3	8.4	7.0	4.6	2.4	2.0	1.7	1.7
17	6.0	3.8	3.8	3.0	5.0	9.0	7.0	4.5	2.4	2.0	1.7	1.7
18	6.0	3.8	3.8	3.0	4.7	10	11	4.4	2.4	2.0	1.7	1.7
19	6.0	3.8	3.8	3.0	4.5	180	24	4.3	2.4	2.0	1.7	1.7
20	5.9	3.8	3.8	3.0	3.7	146	24	4.1	2.3	2.0	1.7	1.7
21	5.1	3.8	3.8	3.0	3.7	184	19	4.0	2.3	2.0	1.7	1.7
22	5.0	3.8	3.8	3.0	3.9	209	14	3.9	2.3	2.0	1.7	1.7
23	4.2	3.8	3.8	24	3.9	94	11	3.7	2.3	1.9	1.7	1.7
24	3.8	3.8	4.3	8.9	13	37	10	3.6	2.3	1.9	1.7	1.7
25	3.8	3.8	5.1	5.4	26	11	9.8	3.5	2.2	1.9	1.7	1.7
26	3.8	3.8	5.1	4.9	20	53	9.5	3.4	2.2	1.9	1.7	1.7
27	3.8	3.8	5.1	28	15	23	9.1	3.3	2.2	1.9	1.7	1.7
28	3.8	4.2	5.1	54	11	14	8.7	3.3	2.2	1.9	1.7	1.6
29	3.8	4.4	5.1	140	---	11	8.4	3.2	2.2	1.9	1.7	1.6
30	3.8	4.4	5.1	6.9	---	9.8	8.0	3.1	2.2	1.9	1.7	1.6
31	3.8	---	5.1	5.8	---	9.4	---	3.0	---	1.8	1.7	---
TOTAL	137.6	115.6	168.0	350.3	240.6	1540.6	293.5	151.1	74.3	62.2	53.5	50.7
MEAN	4.44	3.85	5.42	11.3	8.59	49.7	9.78	4.87	2.48	2.01	1.73	1.69
MAX	6.0	4.4	21	140	30	228	24	7.7	2.9	2.2	1.8	1.7
MIN	3.8	3.8	3.8	3.0	3.7	7.2	6.3	3.0	2.2	1.8	1.7	1.6
AC-FT	273	229	333	695	477	3060	582	300	147	123	106	101
CAL YR 1980	TOTAL	6574.6	MEAN	18.0	MAX	528	MIN	2.6	AC-FT	13040		
WTR YR 1981	TOTAL	3238.0	MEAN	8.87	MAX	228	MIN	1.6	AC-FT	6420		

11141500 ARROYO GRANDE AT ARROYO GRANDE, CA

LOCATION.--Lat 35°07'28", long 120°34'05", in Pismo Grant, San Luis Obispo County, Hydrologic Unit 18060006, on left bank at Arroyo Grande, 0.7 mi (1.1 km) upstream from U.S. Highway 101.

DRAINAGE AREA.--102 mi² (264 km²).

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

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

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 97.77 ft (29.800 m) National Geodetic Vertical Datum of 1929. Prior to July 10, 1947, at datum 0.50 ft (0.152 m) higher.

REMARKS.--Records good. Flow regulated by Lopez Dam 7.8 mi (12.6 km) upstream since 1968, usable capacity, 47,800 acre-ft (58.9 hm³). Many small and intermittent diversions by pumping from stream for irrigation of about 4,000 acres (16.2 km²) above station.

AVERAGE DISCHARGE.--29 years (water years 1940-68), 19.4 ft³/s (0.549 m³/s), 14,060 acre-ft/yr (17.3 hm³/yr); 13 years (water years 1969-81), 14.0 ft³/s (0.396 m³/s), 10,140 acre-ft/yr (12.5 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 315 ft³/s (8.92 m³/s) Mar. 19, gage height, 3.59 ft (1.094 m); minimum daily, 0.50 ft³/s (0.014 m³/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.9	4.2	5.5	7.8	12	9.3	3.9	3.4	2.7	3.8	4.5
2	2.4	3.2	4.3	5.4	7.3	8.6	9.5	3.9	3.6	2.6	5.2	3.6
3	4.3	3.1	5.3	5.8	7.0	7.0	9.4	5.1	2.1	3.7	4.9	2.8
4	3.7	3.6	18	6.0	6.9	28	8.4	4.9	2.5	4.0	3.4	2.6
5	4.3	4.0	6.8	6.4	6.8	85	8.6	5.5	2.1	4.5	4.6	3.1
6	4.2	4.4	6.8	6.4	6.6	22	7.4	4.5	4.1	3.8	4.4	3.1
7	3.4	4.4	5.6	6.1	6.4	15	7.3	4.0	4.0	2.6	5.0	3.9
8	4.7	4.2	5.5	5.9	8.2	11	7.9	3.9	3.3	1.6	4.1	3.6
9	4.7	3.9	5.6	5.6	13	10	6.6	2.7	2.6	3.0	6.8	3.8
10	4.5	4.0	5.2	5.8	8.2	9.4	5.7	3.0	2.1	2.2	5.1	3.6
11	3.1	4.2	4.7	6.1	7.7	8.9	5.1	3.7	1.5	2.4	4.2	2.8
12	4.0	4.1	4.2	5.9	7.2	8.5	5.2	4.5	1.3	3.6	5.4	4.0
13	4.4	4.1	5.6	6.1	7.0	8.7	5.2	4.2	1.4	3.5	6.1	2.7
14	4.7	4.2	5.8	6.9	6.6	8.2	4.8	4.1	1.7	1.8	5.5	4.0
15	4.3	4.1	4.6	6.1	6.3	8.2	5.3	3.3	1.2	2.3	5.3	4.4
16	3.8	4.5	4.1	6.2	6.1	7.0	5.4	2.4	.86	3.4	5.2	2.8
17	3.6	4.7	5.2	5.9	5.9	6.6	5.3	2.6	1.3	3.7	5.5	3.2
18	2.4	4.7	5.5	6.2	6.0	7.7	5.6	3.2	1.1	3.6	3.8	3.6
19	3.7	4.5	5.4	5.8	5.8	125	6.5	3.1	1.1	4.5	4.9	3.1
20	4.0	4.0	4.8	5.5	5.4	60	5.6	2.1	1.9	4.2	2.4	3.1
21	3.2	4.2	4.5	5.8	4.7	100	5.8	2.8	1.7	3.6	3.6	2.8
22	3.5	4.5	5.0	7.0	5.5	72	5.2	2.8	1.9	3.2	1.6	1.0
23	3.7	4.1	5.8	8.9	5.2	33	5.6	1.8	1.2	5.0	2.3	.50
24	3.5	4.3	6.1	6.7	5.5	26	5.4	2.4	2.0	3.8	3.9	1.4
25	3.5	4.0	6.0	6.3	8.8	21	6.1	3.5	2.1	3.2	3.5	1.4
26	4.3	3.7	6.0	6.3	6.5	19	5.3	3.3	1.5	5.1	2.3	3.6
27	3.9	4.3	5.9	13	6.3	17	5.1	2.0	.94	5.5	1.7	3.6
28	3.7	3.6	6.0	12	6.3	14	4.1	2.0	2.6	4.3	2.6	3.3
29	3.1	3.3	5.8	14	---	13	3.5	2.6	3.0	4.2	2.8	2.3
30	2.7	4.3	5.9	13	---	12	3.8	2.6	3.5	2.4	4.0	1.6
31	2.7	---	4.6	9.0	---	10	---	3.3	---	3.8	3.8	---
TOTAL	113.6	121.1	178.8	221.6	191.0	793.8	184.0	103.7	63.60	107.8	127.7	89.80
MEAN	3.66	4.04	5.77	7.15	6.82	25.6	6.13	3.35	2.12	3.48	4.12	2.99
MAX	4.7	4.7	18	14	13	125	9.5	5.5	4.1	5.5	6.8	4.5
MIN	1.6	2.9	4.1	5.4	4.7	6.6	3.5	1.8	.86	1.6	1.6	.50
AC-FT	225	240	355	440	379	1570	365	206	126	214	253	178
CAL YR 1980 TOTAL	11532.70			31.5	802	1.6	AC-FT	22880				
WTR YR 1981 TOTAL	2296.50			6.29	125	.50	AC-FT	4560				

BIG SUR RIVER BASIN

11143000 BIG SUR RIVER NEAR BIG SUR, CA

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

DRAINAGE AREA.--46.5 mi² (120.4 km²).

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.--31 years, 97.7 ft³/s (2,767 m³/s), 70,780 acre-ft/yr (87.3 hm³/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	1515	*2330 66.0	7.76 2.365
Mar. 21	1000	1300 36.8	6.52 1.987

Minimum daily discharge, 15 ft³/s (0.42 m³/s) Aug. 28 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	21	24	18	204	78	216	65	39	26	21	15
2	29	21	25	19	153	68	205	63	38	26	20	15
3	28	21	132	19	122	59	191	61	37	26	20	15
4	26	21	137	20	100	126	177	59	36	26	20	15
5	26	21	45	19	84	142	166	59	36	25	19	15
6	25	21	31	19	74	118	157	56	35	25	19	15
7	24	21	26	18	66	104	150	55	34	25	19	15
8	22	22	24	18	90	93	141	55	34	25	19	15
9	21	22	22	19	210	84	132	53	34	24	19	15
10	21	22	21	18	138	76	132	52	33	24	18	15
11	20	22	21	18	121	71	123	51	32	24	18	15
12	20	22	20	18	104	68	118	51	32	24	18	15
13	21	22	20	18	92	99	112	52	31	24	18	15
14	21	22	19	18	85	83	109	51	30	23	18	15
15	22	22	19	19	75	90	107	49	30	23	17	15
16	22	22	19	22	68	96	102	49	30	23	17	15
17	23	21	19	19	63	82	96	48	30	23	17	15
18	24	21	19	18	57	109	104	49	30	23	17	15
19	23	21	20	18	53	523	104	50	29	23	17	15
20	23	21	19	19	49	424	94	49	29	23	17	15
21	23	21	19	19	46	967	87	47	29	23	16	15
22	23	22	20	66	43	734	84	46	28	23	16	15
23	22	24	19	68	41	531	84	44	28	23	16	15
24	21	23	19	32	47	424	80	43	28	23	16	15
25	21	22	19	19	55	380	78	42	27	23	16	15
26	23	22	18	18	45	391	75	43	27	22	16	15
27	22	22	18	997	41	333	73	43	27	22	16	15
28	22	22	19	728	49	294	71	41	27	22	15	15
29	21	22	19	947	---	265	67	40	27	22	15	15
30	21	22	19	485	---	244	67	38	26	21	15	15
31	21	---	18	300	---	228	---	39	---	21	15	---
TOTAL	711	651	889	4053	2375	7384	3502	1543	933	730	540	450
MEAN	22.9	21.7	28.7	131	84.8	238	117	49.8	31.1	23.5	17.4	15.0
MAX	30	24	137	997	210	967	216	65	39	26	21	15
MIN	20	21	18	18	41	59	67	38	26	21	15	15
AC-FT	1410	1290	1760	8040	4710	14650	6950	3060	1850	1450	1070	893
CAL YR 1980	TOTAL	69434	MEAN 190	MAX 2800	MIN 18	AC-FT 137700						
WTR YR 1981	TOTAL	23761	MEAN 65.1	MAX 997	MIN 15	AC-FT 47130						

11143200 CARMEL RIVER AT ROBLES DEL RIO, CA

LOCATION.--Lat 36°28'28", long 121°43'37", in Los Laureles Grant, Monterey County, Hydrologic Unit 18060012, on right bank 150 ft (45.72 m) upstream 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, prior to June 1981 at site 150 ft (45.72 m) downstream on downstream side of county road bridge.

DRAINAGE AREA.--193 mi² (500 km²).

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

REVISED RECORDS.--WSP 1715: Drainage area.

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

REMARKS.--Records good. Flow regulated by Los Padres Reservoir 11 mi (18 km) upstream, capacity, 3,000 acre-ft (3.70 hm³) and San Clemente Reservoir 4 mi (6 km) upstream, capacity, 1,600 acre-ft (1.97 hm³). Diversion from San Clemente Reservoir for municipal supply amounted to 9,180 acre-ft (11.3 hm³) for the current year.

AVERAGE DISCHARGE (unadjusted).--24 years, 80.7 ft³/s (2.285 m³/s), 58,470 acre-ft/yr (72.1 hm³/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,320 ft³/s (65.7 m³/s) Jan. 27, gage height, 7.53 ft (2.295 m); minimum daily, 0.33 ft³/s (0.009 m³/s) Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	1.6	1.9	8.4	279	68	195	50	10	2.3	1.1	.53
2	3.2	1.5	2.0	9.2	201	72	190	48	8.9	2.2	1.0	.54
3	3.2	1.4	3.3	8.7	160	60	165	48	8.3	1.9	1.1	.40
4	3.1	1.5	.79	8.2	134	103	146	47	7.0	1.9	1.0	.69
5	3.4	1.6	.56	8.3	115	188	136	46	6.4	1.8	.87	.47
6	4.0	1.7	.32	8.1	99	160	129	45	6.0	1.7	.66	.33
7	6.5	1.7	.23	4.7	87	138	124	43	5.2	1.7	.62	.54
8	6.8	1.8	.19	3.7	84	124	118	41	5.2	1.6	.65	.56
9	7.5	1.8	.16	3.3	115	113	112	40	5.0	1.6	.74	.59
10	7.2	1.8	.15	3.3	103	102	107	38	5.0	1.6	.78	.72
11	7.1	1.8	.14	3.3	96	93	102	36	4.8	1.6	.79	.76
12	6.9	1.7	.13	3.0	86	82	98	34	4.6	1.6	.79	.79
13	6.6	1.5	.12	3.1	77	138	93	34	4.5	1.6	.82	.86
14	7.3	1.6	.11	3.0	74	131	89	34	4.3	1.5	.78	.87
15	8.8	1.8	.11	3.6	67	116	84	35	4.1	1.4	.80	.88
16	8.2	1.7	.10	5.7	61	130	81	35	4.0	1.5	.68	.90
17	7.1	1.7	9.6	4.5	56	115	79	33	3.8	1.6	.74	.87
18	6.0	1.7	.10	3.7	52	113	78	32	3.7	1.6	.79	.78
19	5.0	1.7	.10	3.3	47	313	73	33	3.6	1.6	.78	.73
20	4.1	1.8	.11	3.0	44	337	72	34	3.5	1.5	.72	.75
21	3.2	1.8	.11	3.0	41	634	74	31	3.4	1.5	.73	.72
22	2.7	1.9	.11	4.3	37	601	70	30	3.3	1.6	.65	.72
23	2.3	1.7	.10	4.3	34	456	66	28	3.2	1.5	.73	.62
24	2.0	1.7	9.5	4.3	41	369	64	27	3.1	1.5	.70	.65
25	2.0	1.7	9.9	3.2	52	329	61	31	3.0	1.5	.63	.70
26	1.9	1.7	.10	2.7	45	374	60	28	2.9	1.5	.59	.71
27	1.9	1.6	9.8	654	40	324	59	9.4	2.7	1.4	.44	.68
28	1.8	1.6	.10	1190	39	279	57	10	2.5	1.2	.38	.74
29	1.6	1.7	9.1	1340	---	249	54	10	2.6	1.1	.42	.93
30	1.6	1.9	8.9	745	---	227	51	11	2.5	1.1	.46	3.1
31	1.6	---	8.6	422	---	206	---	11	---	1.1	.67	---
TOTAL	137.9	50.7	466.6	4605.4	2366	6744	2887	1012.4	137.1	48.8	22.61	23.13
MEAN	4.45	1.69	15.1	149	84.5	218	96.2	32.7	4.57	1.57	.73	.77
MAX	8.8	1.9	.79	1340	279	634	195	50	10	2.3	1.1	3.1
MIN	1.6	1.4	1.9	3.0	34	60	51	9.4	2.5	1.1	.38	.33
AC-FT	274	101	926	9130	4690	13380	5730	2010	272	97	45	46

CAL YR 1980 TOTAL 68174.50 MEAN 186 MAX 4130 MIN 1.4 AC-FT 135200
WTR YR 1981 TOTAL 18501.64 MEAN 50.7 MAX 1340 MIN .33 AC-FT 36700

11143250 CARMEL RIVER NEAR CARMEL, CA

LOCATION.--Lat 36°32'20", long 121°52'25", in Canada de la Segunda Grant, Monterey County, Hydrologic Unit 18060012, on right bank 0.3 mi (0.5 km) downstream from Potrero Canyon, and 3 mi (5 km) east of Carmel.

DRAINAGE AREA.--246 mi² (637 km²).

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

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

REMARKS.--Records good. Flow regulated by Los Padres Reservoir, capacity, 3,000 acre-ft (3.70 hm³) and San Clemente Reservoir, capacity, 1,600 acre-ft (1.97 hm³). Diversion from San Clemente Reservoir for municipal supply amounted to 4,850 acre-ft (5.98 hm³) for the current year.

AVERAGE DISCHARGE (unadjusted).--19 years, 101 ft³/s (2.860 m³/s), 73,320 acre-ft/yr (90.4 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,130 ft³/s (60.3 m³/s) Jan. 27, gage height, 9.19 ft (2.801 m); no flow many days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	.54	.90	2.4	285	92	216	55	13	1.3	.32	
2	.32	.65	.95	2.3	219	107	212	56	9.6	1.2	.32	
3	.31	.71	1.0	2.3	180	100	193	52	7.0	1.0	.32	
4	.44	.69	5.0	2.3	156	125	176	53	5.9	1.1	.35	
5	.58	.67	3.1	2.0	139	215	163	50	5.0	1.0	.30	
6	.56	.69	2.0	1.6	123	187	154	48	3.6	.83	.23	
7	.63	.60	1.4	1.8	110	169	146	48	3.3	.72	.18	
8	.61	.72	1.2	1.7	108	155	139	49	2.6	.60	.16	
9	.62	.95	1.0	1.3	142	145	132	51	2.5	.53	.16	
10	.57	1.1	.91	1.5	129	138	126	49	2.3	.53	.05	
11	.46	1.3	.87	1.8	120	132	119	47	2.3	.54	.01	
12	.46	1.1	.81	2.0	111	125	114	45	2.2	.54	.02	
13	.46	1.0	.76	1.9	105	173	109	43	2.0	.61	.01	
14	.46	1.1	.71	1.8	100	179	104	43	2.0	.54	.01	
15	.46	1.3	.67	1.8	96	158	96	43	2.0	.44	0	
16	.51	1.4	.54	2.3	92	167	93	41	1.8	.44	0	
17	.50	1.2	.51	2.5	87	155	90	40	1.8	.40	0	
18	.45	1.1	.52	2.0	82	153	93	41	1.8	.41	0	
19	.53	1.1	.54	1.3	77	292	91	40	1.8	.39	0	
20	.59	1.0	.75	1.5	73	342	87	38	1.7	.41	0	
21	.61	.98	1.1	1.8	71	566	85	37	1.7	.39	0	
22	.64	1.1	1.1	4.2	70	616	79	39	1.6	.48	0	
23	.74	1.3	.98	25	70	467	79	37	1.5	.54	0	
24	.74	1.2	.98	20	76	379	75	33	1.4	.50	0	
25	.74	.95	1.1	16	79	342	75	29	1.4	.41	0	
26	.74	.85	1.6	14	78	403	71	34	1.4	.39	0	
27	.74	.85	1.8	368	70	364	66	23	1.4	.32	0	
28	.72	.89	1.8	1150	68	304	65	18	1.3	.39	0	
29	.63	.85	2.3	1340	---	267	63	16	1.2	.36	0	
30	.72	.87	2.8	765	---	241	54	13	1.3	.33	0	
31	.67	---	2.7	414	---	223	---	13	---	.32	0	---
TOTAL	17.54	28.76	42.40	4156.1	3116	7481	3365	1224	88.4	17.96	2.44	0
MEAN	.57	.96	1.37	134	111	241	112	39.5	2.95	.58	.079	0
MAX	.74	1.4	5.0	1340	285	616	216	56	13	1.3	.35	0
MIN	.31	.54	.51	1.3	68	92	54	13	1.2	.32	0	0
AC-FT	35	57	84	8240	6180	14840	6670	4430	175	36	4.8	0
CAL YR 1980	TOTAL	73577.16	MEAN	201	MAX	4300	MIN	.31	AC-FT	145900		
WTR YR 1981	TOTAL	19539.60	MEAN	53.5	MAX	1340	MIN	0	AC-FT	38760		

11143500 SALINAS RIVER NEAR POZO, CA

LOCATION.--Lat 35°17'55", long 120°24'10", in NE¼ sec.19, T.30 S., R.15 E., San Luis Obispo County, Hydrologic Unit 18060005, on right bank at downstream side of county road bridge, 1.0 mi (1.6 km) downstream from Pozo Creek, 1.6 mi (2.6 km) west of Pozo, and 7.4 mi (11.9 km) upstream from Salinas Dam.

DRAINAGE AREA.--70.3 mi² (182.1 km²).

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

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

GAGE.--Water-stage recorder. Datum of gage is 1,347.78 ft (410.803 m) National Geodetic Vertical Datum of 1929. Prior to May 13, 1969, water-stage recorder at site 0.4 mi (0.6 km) downstream at same datum.

REMARKS.--Records fair except those for periods of indefinite stage-discharge relation, Oct. 1 to Dec. 2, May 3 to Sept. 30, which are poor. No regulation or diversion above station. Water is stored in Santa Margarita Lake below station.

AVERAGE DISCHARGE.--39 years, 18.1 ft³/s (0.513 m³/s), 13,110 acre-ft/yr (16.2 hm³/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 29	1415	396 11.2	12.24 3.731	Mar. 21	2045	576 16.3	12.72 3.877
Mar. 19	1515	*798 22.6	13.18 4.017				

Minimum daily discharge, 0.53 ft³/s (0.015 m³/s) Aug. 30 to Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	1.3	1.9	.97	4.3	9.7	19	3.0	2.2	1.4	.76	.53
2	.96	1.3	1.9	.97	4.0	4.4	17	2.9	2.2	1.4	.75	.54
3	.96	1.4	2.7	1.1	3.7	3.7	15	2.9	2.2	1.4	.73	.54
4	.97	1.4	5.2	1.0	3.5	14	13	2.9	2.1	1.3	.71	.54
5	.98	1.4	2.8	.97	3.5	143	11	2.9	2.1	1.3	.70	.54
6	.99	1.4	2.5	.97	3.3	133	11	2.8	2.1	1.3	.69	.54
7	1.0	1.4	2.2	.89	3.4	96	10	2.8	2.1	1.3	.67	.54
8	1.0	1.5	2.0	.86	4.0	57	8.7	2.8	2.0	1.2	.66	.54
9	1.0	1.5	2.0	.86	4.5	39	8.3	2.8	2.0	1.2	.64	.55
10	1.0	1.5	1.9	.76	4.5	29	7.7	2.8	2.0	1.2	.63	.55
11	1.0	1.5	1.8	.76	4.5	23	6.9	2.8	2.0	1.2	.61	.55
12	1.0	1.5	1.8	.76	4.4	19	6.7	2.8	1.9	1.1	.60	.56
13	1.1	1.6	1.8	.76	4.0	19	6.5	2.7	1.9	1.1	.59	.56
14	1.1	1.6	1.6	.68	3.3	20	6.0	2.7	1.9	1.1	.58	.57
15	1.1	1.6	1.6	.67	3.3	18	5.6	2.7	1.8	1.1	.57	.57
16	1.1	1.6	1.6	.71	3.3	18	5.2	2.7	1.8	1.0	.57	.58
17	1.1	1.7	1.6	.76	3.3	17	5.2	2.7	1.8	1.0	.57	.58
18	1.1	1.7	1.5	.69	3.3	21	6.4	2.6	1.8	1.0	.56	.59
19	1.1	1.7	1.4	.67	3.3	382	5.9	2.6	1.7	1.0	.56	.59
20	1.1	1.7	1.4	.67	3.2	202	5.8	2.6	1.7	.97	.55	.60
21	1.2	1.8	1.4	.67	3.0	199	6.0	2.5	1.7	.96	.55	.61
22	1.2	1.8	1.4	1.3	3.2	210	5.7	2.5	1.6	.94	.55	.61
23	1.2	1.8	1.4	3.0	3.3	73	5.1	2.5	1.6	.92	.54	.62
24	1.2	1.8	1.4	1.3	3.0	57	4.8	2.5	1.6	.90	.54	.63
25	1.2	1.8	1.2	1.0	3.7	48	4.4	2.4	1.6	.88	.54	.63
26	1.2	1.8	1.2	.97	3.1	49	4.4	2.4	1.5	.87	.54	.64
27	1.2	1.9	1.2	7.0	3.0	44	3.9	2.4	1.5	.85	.54	.65
28	1.3	1.9	1.2	2.8	3.5	37	3.6	2.3	1.5	.83	.54	.65
29	1.3	1.9	.97	43	---	31	3.4	2.3	1.5	.81	.54	.66
30	1.3	1.9	.97	6.0	---	26	3.2	2.3	1.4	.79	.53	.67
31	1.3	---	.97	4.6	---	22	---	2.3	---	.77	.53	---
TOTAL	34.21	48.7	54.51	88.12	100.4	2063.8	225.4	81.9	54.8	33.09	18.64	17.53
MEAN	1.10	1.62	1.76	2.84	3.59	66.6	7.51	2.64	1.83	1.07	.60	.58
MAX	1.3	1.9	5.2	43	4.5	382	19	3.0	2.2	1.4	.76	.67
MIN	.95	1.3	.97	.67	3.0	3.7	3.2	2.3	1.4	.77	.53	.53
AC-FT	68	97	108	175	199	4090	447	162	109	66	37	35
CAL YR 1980	TOTAL	17081.21	MEAN	46.7	MAX	2850	MIN	.94	AC-FT	33880		
WTR YR 1981	TOTAL	2821.10	MEAN	7.73	MAX	382	MIN	.53	AC-FT	5600		

SALINAS RIVER BASIN

11144000 TORO CREEK NEAR POZO, CA

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

DRAINAGE AREA.--9.56 mi² (24.76 km²).

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

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

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

AVERAGE DISCHARGE.--18 years (water years, 1962-69, 1972-81), 1.04 ft³/s (0.029 m³/s), 753 acre-ft/yr (928,000 m³/yr).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15 ft³/s (0.4 m³/s) and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 29	0400	*64 1.81	4.66 1.420
Mar. 19	0830	39 1.10	4.40 1.341

Minimum daily discharge, 0.37 ft³/s (0.010 m³/s) June 17-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	1.2	2.1	.70	2.0	4.8	1.7	.68	.41	.38	.49	.47
2	.97	1.2	2.0	.70	1.9	2.2	1.7	.67	.40	.38	.50	.47
3	.98	1.2	2.6	.77	1.8	2.1	1.7	.66	.40	.39	.50	.47
4	.99	1.2	3.6	.72	1.7	6.0	1.6	.64	.40	.39	.50	.46
5	1.0	1.2	2.0	.70	1.7	13	1.6	.63	.40	.39	.50	.46
6	1.0	1.2	1.7	.68	1.6	8.0	1.5	.62	.39	.40	.50	.46
7	1.0	1.3	1.6	.65	1.8	5.4	1.5	.61	.39	.40	.50	.46
8	1.0	1.3	1.5	.61	2.1	3.5	1.4	.60	.39	.40	.50	.46
9	1.0	1.3	1.4	.58	2.3	2.0	1.4	.58	.39	.41	.50	.45
10	1.0	1.3	1.3	.56	2.2	1.8	1.3	.57	.38	.41	.50	.45
11	1.0	1.3	1.3	.53	2.2	1.4	1.3	.56	.38	.41	.50	.45
12	1.0	1.3	1.3	.51	2.0	1.2	1.3	.55	.38	.42	.50	.44
13	1.0	1.3	1.2	.50	1.8	1.1	1.3	.54	.38	.43	.50	.44
14	1.1	1.3	1.2	.49	1.7	1.2	1.2	.53	.38	.43	.50	.44
15	1.1	1.4	1.1	.48	1.7	1.1	1.2	.52	.38	.43	.50	.43
16	1.1	1.4	1.1	.51	1.7	1.0	1.1	.51	.38	.44	.50	.43
17	1.1	1.4	1.1	.54	1.7	1.1	1.1	.50	.37	.44	.50	.43
18	1.1	1.4	1.0	.50	1.7	2.0	3.4	.49	.37	.44	.50	.43
19	1.1	1.4	1.0	.49	1.7	24	1.9	.48	.37	.45	.50	.42
20	1.1	1.4	1.0	.48	1.6	6.2	.93	.47	.37	.45	.50	.42
21	1.1	1.3	1.0	.80	1.6	12	.91	.46	.37	.46	.49	.42
22	1.1	1.5	1.0	2.7	1.6	8.0	.86	.46	.37	.47	.49	.41
23	1.1	1.5	1.0	1.9	1.7	5.0	.84	.45	.37	.48	.49	.41
24	1.1	1.5	1.0	1.0	1.6	3.5	.82	.44	.37	.48	.49	.41
25	1.2	1.5	.90	.75	1.7	2.5	.78	.44	.37	.48	.49	.40
26	1.2	1.6	.86	.70	1.8	2.3	.76	.43	.38	.48	.49	.40
27	1.2	1.5	.85	4.8	2.0	2.2	.75	.43	.38	.48	.48	.40
28	1.2	1.6	.83	1.8	2.3	2.1	.73	.42	.38	.48	.48	.40
29	1.2	1.6	.74	30	---	2.0	.71	.42	.38	.49	.48	.39
30	1.2	1.9	.71	2.5	---	1.9	.69	.41	.38	.49	.48	.39
31	1.2	---	.70	2.2	---	1.8	---	.41	---	.49	.47	---
TOTAL	33.40	41.5	40.69	60.85	51.2	132.4	37.98	16.18	11.46	13.57	15.32	12.97
MEAN	1.08	1.38	1.31	1.96	1.83	4.27	1.27	.52	.38	.44	.49	.43
MAX	1.2	1.9	3.6	30	2.3	24	3.4	.68	.41	.49	.50	.47
MIN	.96	1.2	.70	.48	1.6	1.0	.69	.41	.37	.38	.47	.39
AC-FT	66	82	81	121	102	263	75	32	23	27	30	26
CAL YR 1980	TOTAL	1754.34	MEAN 4.79	MAX 270	MIN .43	AC-FT 3480						
WTR YR 1981	TOTAL	467.52	MEAN 1.28	MAX 30	MIN .37	AC-FT 921						

11144200 SALSIPUEDES CREEK NEAR POZO, CA

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

DRAINAGE AREA.--5.91 mi² (15.31 km²).

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

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

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

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

AVERAGE DISCHARGE.--12 years, 2.13 ft³/s (0.060 m³/s), 1,540 acre-ft/yr (1.90 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s (41.1 m³/s) Feb. 21, 1980, gage height, 6.12 ft (1.865 m), from rating curve extended above 67 ft³/s (1.90 m³/s) on basis of slope-area measurements at gage heights 4.58 ft (1.396 m) and 5.88 ft (1.792 m); no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.8 m³/s), revised, and maximum (*) from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 29	0345	*903	25.6	4.75	1.448
Mar. 19	0800	210	5.95	2.64	0.805

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	.77	10	1.3	.05				
2			0	0	.50	5.7	1.2	.05				
3			.01	0	.37	5.4	1.1	.04				
4			.05	0	.31	19	.94	.04				
5			.01	0	.28	39	.85	.04				
6			.01	0	.25	7.8	.83	.04				
7			0	0	.23	4.1	.75	.04				
8			0	0	.43	2.6	.66	.04				
9			0	0	2.6	2.0	.64	.04				
10			0	0	1.2	1.6	.64	.04				
11			0	0	.91	1.3	.53	.03				
12			0	0	.74	1.2	.50	.02				
13			0	0	.58	1.3	.47	.02				
14			0	0	.35	1.1	.43	.02				
15			0	0	.18	.93	.38	.02				
16			0	0	.15	.84	.36	.02				
17			0	0	.22	.76	.35	.01				
18			0	0	.22	.93	.67	.02				
19			0	0	.19	69	.77	.01				
20			0	0	.19	18	.53	.01				
21			0	0	.20	34	.42	.01				
22			0	.01	.21	21	.27	.01				
23			0	.05	.19	10	.22	0				
24			0	.01	.19	6.1	.20	0				
25			0	0	.19	4.3	.19	.01				
26			0	0	.19	3.9	.18	.01				
27			0	4.4	.19	3.0	.15	.01				
28			0	1.9	.19	2.3	.09	0				
29			0	82	---	2.0	.08	0				
30			0	6.0	---	1.6	.06	0				
31		---	0	1.6	---	1.5	---	0	---			---
TOTAL	0	0	.08	95.97	12.22	282.26	15.76	.65	0	0	0	0
MEAN	0	0	.003	3.10	.44	9.11	.53	.021	0	0	0	0
MAX	0	0	.05	82	2.6	69	1.3	.05	0	0	0	0
MIN	0	0	0	0	.15	.76	.06	0	0	0	0	0
AC-FT	0	0	.2	190	24	560	31	1.3	0	0	0	0
CAL YR 1980	TOTAL	1727.17	MEAN 4.72	MAX 238	MIN 0	AC-FT 3430						
WTR YR 1981	TOTAL	406.94	MEAN 1.11	MAX 82	MIN 0	AC-FT 807						

SALINAS RIVER BASIN

11144500 SANTA MARGARITA LAKE NEAR POZO, CA

LOCATION.--Lat 35°20'14", long 120°30'08", in NW¼NW¼ sec.8, T.30 S., R.14 E., San Luis Obispo County, Hydrologic Unit 18060005 at left end of dam on Salinas River, 2 mi (3 km) upstream from Pilitas Creek, and 7.5 mi (12.1 km) northwest of Pozo.

DRAINAGE AREA.--112 mi² (290 km²).

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

REVISED RECORDS.--WSP 1715: Drainage area.

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

REMARKS.--Reservoir is formed by concrete-arch dam, outlet closed Dec. 6, 1941. Usable capacity, 23,000 acre-ft (28.4 hm³) between elevations 1,220.3 ft (371.95 m), bottom of outlet pipe and 1,300.7 ft (396.45 m) spillway crest, NGVD. Additional storage of 400 acre-ft (493,000 m³) is not available for release. Water diverted at dam into pipeline to small reservoir 10 mi (16 km) below, from which it is pumped to Camp San Luis Obispo and city of San Luis Obispo for water supply; water is also released down natural channel of river. Figures given herein represent usable contents.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum usable contents, 22,460 acre-ft (27.7 hm³) Apr. 12, elevation, 1299.94 ft (396.130 m); minimum, 16,100 acre-ft (19.9 hm³) Jan. 22; minimum elevation, 1,289.41 ft (393.012 m) Jan. 22.

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 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18500	17600	16900	16500	16800	16700	22400	22300	21400	20100	18900	17700
2	18500	17600	16900	16400	16800	16800	22400	22300	21400	20100	18800	17700
3	18400	17600	16900	16400	16800	16800	22400	22300	21300	20000	18800	17600
4	18400	17500	16900	16400	16800	16800	22400	22300	21300	20000	18700	17600
5	18400	17500	17000	16400	16800	17200	22400	22200	21300	20000	18700	17500
6	18400	17500	16900	16400	16800	17700	22400	22200	21200	19900	18700	17500
7	18300	17500	16900	16400	16800	17900	22400	22200	21200	19900	18600	17500
8	18300	17400	16900	16400	16700	18000	22400	22200	21200	19800	18600	17400
9	18300	17400	16900	16300	16700	18100	22400	22100	21100	19800	18600	17400
10	18200	17400	16900	16300	16700	18100	22500	22100	21100	19800	18500	17400
11	18200	17400	16800	16300	16700	18100	22500	22100	21000	19700	18500	17300
12	18200	17400	16800	16300	16700	18200	22500	22100	21000	19700	18400	17300
13	18200	17300	16800	16300	16700	18200	22400	22000	20900	19600	18400	17300
14	18100	17300	16800	16200	16700	18200	22400	22000	20900	19600	18400	17200
15	18100	17300	16800	16200	16700	18200	22400	22000	20800	19600	18300	17200
16	18100	17300	16700	16200	16700	18200	22400	21900	20800	19500	18300	17200
17	18000	17200	16700	16200	16700	18300	22400	21900	20700	19500	18300	17100
18	18000	17200	16700	16200	16700	18300	22400	21800	20700	19400	18200	17100
19	18000	17200	16700	16100	16700	18500	22400	21800	20700	19400	18200	17100
20	18000	17200	16700	16100	16700	19800	22400	21800	20600	19300	18100	17000
21	17900	17100	16700	16100	16700	20300	22400	21800	20600	19300	18100	17000
22	17900	17100	16600	16100	16700	21000	22400	21700	20500	19300	18100	17000
23	17900	17100	16600	16100	16700	21500	22400	21700	20500	19200	18000	16900
24	17900	17100	16600	16100	16600	21800	22400	21700	20400	19200	18000	16900
25	17800	17100	16600	16100	16600	21900	22400	21600	20400	19100	18000	16800
26	17800	17000	16600	16100	16700	22000	22400	21600	20300	19100	17900	16800
27	17800	17000	16600	16100	16700	22100	22400	21600	20300	19100	17900	16800
28	17800	17000	16500	16200	16700	22200	22400	21600	20200	19000	17800	16700
29	17700	17000	16500	16600	---	22300	22400	21500	20200	19000	17800	16700
30	17700	16900	16500	16800	---	22300	22300	21500	20100	19000	17800	16700
31	17700	---	16500	16800	---	22300	---	21500	---	18900	17700	---
MAX	18500	17600	17000	16800	16800	22300	22500	22300	21400	20100	18900	17700
MIN	17700	16900	16500	16100	16600	16700	22300	21500	20100	18900	17700	16700
(†)	1292.23	1290.98	1290.14	1290.70	1290.45	1299.76	1299.77	1298.43	1296.36	1294.34	1292.35	1290.49
(‡)	-800	-800	-400	+300	-100	+5600	0	-800	-1400	-1200	-1200	-1000
(‡‡)	648	579	479	473	155	361	517	685	733	741	748	672

CAL YR 1980 MAX 27500 MIN 15900 † +400 ‡‡ 5530
WTR YR 1981 MAX 22500 MIN 16100 † -1800 ‡‡ 6790

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

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

11144600 SALINAS RIVER BELOW SALINAS DAM, NEAR POZO, CA

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

DRAINAGE AREA.--112 mi² (290 km²).

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

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

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

AVERAGE DISCHARGE.--8 years, 24.9 ft³/s (0.705 m³/s), 18,040 acre-ft/yr (22.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,160 ft³/s (203 m³/s) Feb. 10, 1978, gage height, 10.24 ft (3.121 m); no flow for many days in 1975-77 and several days in 1979, 80, 81.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19 ft³/s (0.54 m³/s) September 15, gage height, 2.23 ft (0.680 m); minimum daily, no flow April 13, 25-27, May 3-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	3.4	4.3	4.4	.15	.18	.13	.05	4.4	3.3	1.7	1.8
2	.82	3.4	4.4	4.4	.10	.10	.10	.01	4.4	1.8	1.7	1.6
3	.82	3.4	4.4	4.4	4.4	.21	.03	0	4.5	1.8	1.7	1.6
4	.82	3.6	4.6	4.4	6.7	.20	.01	0	4.5	1.8	1.7	1.6
5	.82	3.5	4.6	4.4	6.7	.32	.01	0	4.5	1.8	1.7	1.6
6	1.0	3.5	4.4	4.4	6.7	.14	.01	0	4.5	1.8	1.7	1.6
7	.82	3.5	4.4	4.4	7.8	.07	.10	0	4.4	2.0	1.7	1.6
8	1.1	3.5	4.4	4.4	8.5	.05	.08	.11	4.5	1.8	1.7	1.6
9	1.4	3.5	4.4	4.4	8.5	.05	.02	.06	4.6	1.8	1.8	1.6
10	1.4	3.5	4.4	4.4	8.5	.05	.02	.01	4.8	1.8	1.7	1.6
11	1.4	3.4	4.7	4.4	6.5	.05	.01	1.4	4.6	1.8	1.7	1.8
12	1.4	3.2	4.4	4.4	.17	.03	.01	4.7	4.5	1.8	1.7	1.6
13	2.0	3.3	4.4	4.6	.08	.03	0	4.8	4.6	1.8	1.7	1.6
14	2.5	2.6	4.4	4.4	.05	.02	.10	4.8	4.6	1.8	1.7	1.6
15	2.5	1.9	4.4	4.4	.04	.01	.07	4.8	4.6	1.7	1.7	1.9
16	2.4	2.0	4.4	4.4	.03	.01	.01	4.8	5.0	1.8	1.7	1.5
17	2.4	2.0	4.7	4.4	.17	.04	.01	4.8	5.5	1.8	1.7	1.5
18	2.4	1.9	4.5	4.4	.10	.09	.01	4.8	5.5	1.8	1.7	1.5
19	2.5	1.9	4.4	4.4	.04	.49	.01	5.0	5.5	1.8	1.7	1.5
20	2.4	2.0	4.4	4.4	.02	.19	.01	4.9	5.5	1.8	1.7	1.5
21	1.9	2.0	4.4	4.5	.02	.14	.01	4.9	5.5	2.0	1.7	1.5
22	1.9	1.9	4.4	4.6	.02	.15	.02	3.6	5.5	1.7	1.7	1.5
23	1.9	1.9	4.4	4.6	.02	.08	.02	2.9	5.9	1.7	1.7	1.7
24	1.9	3.5	4.4	4.6	.04	.04	.01	2.9	5.9	1.7	1.7	1.5
25	1.9	4.3	4.5	4.5	.04	.03	0	2.9	5.9	1.7	1.7	1.5
26	2.8	4.3	4.5	4.4	.04	.19	0	2.9	5.9	1.7	1.7	1.5
27	3.4	4.3	4.4	4.7	.10	.09	0	3.6	6.0	1.7	1.7	1.5
28	3.7	4.3	4.4	4.8	.12	.04	.01	3.9	6.0	1.7	1.7	1.5
29	3.4	4.3	4.6	4.8	---	.02	.01	3.9	5.9	1.7	1.7	1.5
30	3.4	4.3	4.4	4.6	---	.03	.07	3.9	6.1	1.7	1.7	1.5
31	3.4	---	4.4	2.0	---	.04	---	3.9	---	1.9	1.7	---
TOTAL	61.32	94.1	137.8	136.5	65.65	3.18	.90	84.34	153.6	56.8	52.8	47.4
MEAN	1.98	3.14	4.45	4.40	2.34	.10	.030	2.72	5.12	1.83	1.70	1.58
MAX	3.7	4.3	4.7	4.8	8.5	.49	.13	5.0	6.1	3.3	1.8	1.9
MIN	.82	1.9	4.3	2.0	.02	.01	0	0	4.4	1.7	1.7	1.5
AC-FT	122	187	273	271	130	6.3	1.8	167	305	113	105	94
CAL YR 1980	TOTAL	26374.35	MEAN	72.1	MAX	4020	MIN	0	AC-FT	52310		
WTR YR 1981	TOTAL	894.39	MEAN	2.45	MAX	8.5	MIN	0	AC-FT	1770		

SALINAS RIVER BASIN

11147070 SANTA RITA CREEK NEAR TEMPLETON, CA

LOCATION.--Lat 35°31'26", long 120°45'54", in Asuncion Grant, San Luis Obispo County, Hydrologic Unit 18060005, on left bank 1.6 mi (2.6 km) upstream from mouth, and 4 mi (6 km) west of Templeton.

DRAINAGE AREA.--18.2 mi² (47.1 km²).

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

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

REMARKS.--Records good, except for those periods of no gage height record, October 1-24, April 10 to June 11, which are poor. Some regulation and pumping above station.

AVERAGE DISCHARGE.--20 years, 13.7 ft³/s (0.388 m³/s), 9,930 acre-ft/yr (12.2 hm³/yr).

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

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

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Mar. 19	0745	680	19.3	6.15	1.875
Mar. 21	1530	*1280	36.2	7.16	2.182

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.04		0	4.6	13	11	.76	.08	.03		
2	0	.04		0	3.5	9.3	10	.66	.08	.03		
3	0	.04		0	2.9	5.7	13	.59	.07	.02		
4	0	.04		0	2.6	39	16	.51	.07	.02		
5	0	.03		0	2.2	63	5.7	.44	.07	.02		
6	0	.03		.01	2.0	21	4.8	.39	.07	.01		
7	0	.03		.04	1.7	12	4.4	.34	.07	0		
8	0	.03		.04	2.4	8.7	3.9	.33	.06	0		
9	0	.03		.04	22	7.1	3.6	.29	.06	0		
10	0	.03		.04	11	6.1	3.3	.27	.06	0		
11	0	.02		.04	6.0	5.5	3.1	.25	.06	0		
12	0	.02		.04	4.7	5.0	2.9	.23	.07	0		
13	0	.02		.04	4.0	5.6	2.7	.22	.06	0		
14	.01	.01		.04	3.6	5.1	2.6	.20	.05	0		
15	.80	.01		.04	3.4	4.5	2.4	.19	.05	0		
16	.90	0		.05	3.2	4.3	2.2	.17	.05	0		
17	.90	0		.05	2.9	4.0	2.3	.16	.05	0		
18	.90	0		.05	2.8	3.9	2.5	.15	.05	0		
19	.90	0		.05	2.7	288	10	.14	.04	0		
20	.87	0		.05	2.6	112	6.8	.14	.04	0		
21	.78	0		.05	2.3	469	4.5	.13	.04	0		
22	.72	0		.15	2.3	181	3.5	.12	.04	0		
23	.64	0		2.1	2.3	75	2.7	.11	.04	0		
24	.59	0		1.3	2.7	43	2.3	.11	.04	0		
25	.18	0		.77	3.9	30	1.9	.11	.04	0		
26	.08	0		.57	3.6	29	1.7	.10	.03	0		
27	.05	0		11	2.8	23	1.4	.10	.03	0		
28	.05	0		19	3.6	19	1.2	.10	.03	0		
29	.04	0		105	---	16	1.0	.09	.03	0		
30	.04	0		18	---	14	.89	.09	.03	0		
31	.04	---		7.4	---	12	---	.09	---	0		---
TOTAL	8.49	.42	0	165.96	114.3	1533.8	134.29	7.58	1.56	.13	0	0
MEAN	.27	.014	0	5.35	4.08	49.5	4.48	.24	.052	.004	0	0
MAX	.90	.04	0	105	22	469	16	.76	.08	.03	0	0
MIN	0	0	0	0	1.7	3.9	.89	.09	.03	0	0	0
AC-FT	17	.8	0	329	227	3040	266	15	3.1	.3	0	0

CAL YR 1980 TOTAL 7963.80 MEAN 21.8 MAX 686 MIN 0 AC-FT 15800
WTR YR 1981 TOTAL 1966.53 MEAN 5.39 MAX 469 MIN 0 AC-FT 3900

11147500 SALINAS RIVER AT PASO ROBLES, CA

LOCATION.--Lat 35°37'43", long 120°41'00", in Paso de Robles Grant, San Luis Obispo County, Hydrologic Unit 18060005, on left bank at upstream side of 13th Street Bridge in Paso Robles, 3.5 mi (5.6 km) upstream from Huerhuero Creek.

DRAINAGE AREA.--390 mi² (1,010 km²).

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

REVISED RECORDS.--WSP 981: 1942.

GAGE.--Water-stage recorder. Datum of gage is 670.61 ft (240.402 m) National Geodetic Vertical Datum of 1929. Prior to June 14, 1951, nonrecording gage, and June 14, 1951, to Sept. 30, 1965, water-stage recorder at same site and datum.

REMARKS.--Records fair. Flow regulated by Santa Margarita Lake (station 11144500) 32 mi (51 km) upstream beginning in 1941. Small diversions above station.

AVERAGE DISCHARGE.--38 years, 90.8 ft³/s (2.571 m³/s), 65,780 acre-ft/yr (81.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,500 ft³/s (524 m³/s) Feb. 16, 1980, gage height, 15.99 ft (4.874 m), from rating curve extended above 6,200 ft³/s (176 m³/s); maximum gage height, 17.24 ft (5.255 m), Apr. 3, 1958; no flow for long periods in each year.

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

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

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Mar. 5	1645	1320	37.4	7.73	2.356
Mar. 21	2215	*3880	110	9.82	2.993

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	53	146	124	8.8				
2				0	25	219	124	7.3				
3				0	11	149	119	7.1				
4				0	4.9	144	111	5.3				
5				0	3.5	1030	97	3.5				
6				0	2.2	621	90	2.7				
7				0	1.9	368	80	2.0				
8				0	18	308	74	1.1				
9				0	55	260	69	.69				
10				0	116	232	61	.67				
11				0	91	191	51	.79				
12				0	84	165	60	.56				
13				0	76	185	49	.32				
14				0	63	192	39	.37				
15				0	53	176	30	.71				
16				0	44	174	25	1.7				
17				0	40	163	23	.63				
18				0	34	158	32	.73				
19				0	31	1090	31	.58				
20				0	28	1240	31	.07				
21				0	23	1570	25	0				
22				0	24	1730	26	0				
23				0	24	861	22	0				
24				0	27	565	20	0				
25				0	44	416	19	0				
26				0	46	360	15	0				
27				0	40	357	15	0				
28				0	49	287	15	0				
29				320	---	219	14	0				
30				228	---	204	10	0				
31		---		106	---	156	---	0	---			---
TOTAL	0	0	0	654	1111.5	13936	1501	45.62	0	0	0	0
MEAN	0	0	0	21.1	39.7	450	50.0	1.47	0	0	0	0
MAX	0	0	0	320	116	1730	124	8.8	0	0	0	0
MIN	0	0	0	0	1.9	144	10	0	0	0	0	0
AC-FT	0	0	0	1300	2200	27640	2980	90	0	0	0	0
CAL YR 1980	TOTAL	98500.42	MEAN	269	MAX	11800	MIN	0	AC-FT	195400		
WTR YR 1981	TOTAL	17248.12	MEAN	47.3	MAX	1730	MIN	0	AC-FT	34210		

SALINAS RIVER BASIN

11148500 ESTRELLA RIVER NEAR ESTRELLA, CA

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

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

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 671.59 ft (204.701 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

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

AVERAGE DISCHARGE.--27 years, 29.1 ft³/s (0.821 m³/s), 21,010 acre-ft/yr (25.9 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 184 ft³/s (5.21 m³/s) March 22, gage height 2.37 ft (0.722 m), no peak above base of 200 ft³/s (5.7 m³/s); minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.03	2.0					
2					0		1.7					
3					0	0	.68					
4					0	0	.03					
5					0	0	.04					
6					0	0	.25					
7					0	0	0					
8					0	0	0					
9					0	0	0					
10					0	0	0					
11					0	0	0					
12					0	0	0					
13					0	0	0					
14					0	0	0					
15					0	0	0					
16					0	0	0					
17					0	0	0					
18					0	0	0					
19					0	22	0					
20					0	32	0					
21					0	42	0					
22					0	52	0					
23					0	38	0					
24					0	16	0					
25					0	8.5	0					
26					0	4.8	0					
27					0	3.9	0					
28					.04	2.3	0					
29					---	2.1	0					
30					---	2.2	0					
31		---			---	2.0	---		---			---
TOTAL	0	0	0	0	.04	227.83	4.70	0	0	0	0	0
MEAN	0	0	0	0	.001	7.35	.16	0	0	0	0	0
MAX	0	0	0	0	.04	52	2.0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	.08	452	9.3	0	0	0	0	0
CAL YR 1980	TOTAL	13316.46	MEAN	36.4	MAX	1890	MIN	0	AC-FT	26410		
WTR YR 1981	TOTAL	232.57	MEAN	.64	MAX	52	MIN	0	AC-FT	461		

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CA

LOCATION.--Lat 35°47'19", long 121°05'34", in SW¼NE¼ sec.3, T.25 S., R.8 E., San Luis Obispo County, Hydrologic Unit 18060005, on left bank just downstream from Sapaque Creek, 1.4 mi (2.3 km) south of Bryson.

DRAINAGE AREA.--156 mi² (404 km²).

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--10 years, 200 ft³/s (5.664 m³/s), 144,900 acre-ft/yr (179 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,960 ft³/s (112 m³/s) January 29, gage height 14.92 ft (4.548 m), no peak above base of 10,000 ft³/s (283 m³/s); minimum daily discharge, no flow October 1 to November 22, June 27 to September 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	2.3	6.5	314	309	183	33	9.1			
2		0	2.2	6.5	208	303	179	31	8.3			
3		0	3.3	7.7	152	181	155	29	7.7			
4		0	389	7.8	117	348	136	29	7.2			
5		0	75	7.1	96	647	123	28	6.2			
6		0	31	6.8	81	388	113	27	5.0			
7		0	20	6.7	72	279	105	26	4.2			
8		0	15	6.5	73	208	97	25	3.7			
9		0	12	6.6	472	168	90	24	3.4			
10		0	11	6.5	344	141	84	22	2.9			
11		0	10	6.7	235	121	78	21	2.1			
12		0	9.5	6.6	180	106	74	20	2.1			
13		0	9.0	6.5	143	106	69	20	2.0			
14		0	8.5	6.5	123	121	65	20	1.9			
15		0	8.1	6.5	105	96	62	19	1.8			
16		0	8.5	7.9	90	98	57	19	1.7			
17		0	8.4	7.7	80	89	55	18	1.5			
18		0	8.0	7.6	71	85	58	17	1.2			
19		0	7.7	7.6	63	1650	64	17	.96			
20		0	7.5	7.5	56	975	59	18	.76			
21		0	7.3	7.6	50	1950	53	17	.57			
22		0	7.3	16	47	1500	51	17	.44			
23		.62	7.1	146	43	797	47	17	.32			
24		1.6	7.1	84	44	592	44	16	.22			
25		1.6	7.0	45	51	469	42	15	.10			
26		1.8	6.9	32	51	454	41	14	.03			
27		1.9	6.7	444	43	382	40	13	0			
28		2.0	6.7	1080	44	321	38	13	0			
29		2.1	6.7	1950	---	275	36	12	0			
30		2.1	6.6	933	---	236	34	11	0			
31		---	6.5	513	---	205	---	9.8	---			---
TOTAL	0	13.72	721.9	5390.4	3448	13600	2332	617.8	75.40	0	0	0
MEAN	0	.46	23.3	174	123	439	77.7	19.9	2.51	0	0	0
MAX	0	2.1	389	1950	472	1950	183	33	9.1	0	0	0
MIN	0	0	2.2	6.5	43	85	34	9.8	0	0	0	0
AC-FT	0	27	1430	10690	6840	26980	4630	1230	150	0	0	0
CAL YR 1980	TOTAL	115267.72	MEAN	315	MAX	10100	MIN	0	AC-FT	228600		
WTR YR 1981	TOTAL	26199.22	MEAN	71.8	MAX	1950	MIN	0	AC-FT	51970		

SALINAS RIVER BASIN

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

WATER-QUALITY RECORDS

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

WATER TEMPERATURES: Water years 1972-74.

SEDIMENT RECORDS: Water years 1972 to current year.

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1971 to September 1974.

SEDIMENT RECORDS: October 1971 to September 1974.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
DEC 19...	1200	8.0	7.7	1	.02
MAR 03...	1440	12.0	175	1	.47
APR 10...	1340	17.5	86	3	.70
JUN 05...	1230	28.0	6.5	1	.02

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 28...	1710	1	.00	3	18	42	78
28...	1715	1	.00	--	--	1	2
28...	1720	1	.00	--	--	--	--
28...	1725	1	.00	--	1	3	9
28...	1730	1	.00	--	1	9	21
28...	1735	1	.00	1	1	8	24
28...	1740	1	.00	--	1	5	11
28...	1745	1	.00	2	4	19	47
28...	1750	1	.00	3	25	65	96
AUG 14...	1320	1	.00	3	13	59	96
14...	1325	1	.00	--	1	2	19
14...	1330	1	.00	--	--	1	8
14...	1335	1	.00	--	--	1	2
14...	1340	1	.00	8	36	87	99

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 28...	91	93	96	99	100	--	--
28...	3	3	4	11	23	43	100
28...	--	--	--	1	9	16	100
28...	13	17	24	32	51	66	100
28...	28	39	53	73	97	100	--
28...	32	40	52	74	92	100	--
28...	25	66	92	99	100	--	--
28...	65	86	97	100	--	--	--
28...	100	--	--	--	--	--	--
AUG 14...	99	100	--	--	--	--	--
14...	57	68	72	76	80	97	100
14...	14	16	23	36	50	81	100
14...	3	3	6	11	25	63	100
14...	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 mi² (826 km²). PERIOD OF RECORD, February 1957 to current year. Monthend contents prior to October 1970, published in WSP 2129. Prior to October 1978, published as "Nacimiento Reservoir." GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Monterey County Flood Control and Water Conservation District).

Reservoir is formed by earthfill dam completed in 1957. Total capacity, 350,000 acre-ft (432 hm³); usable capacity, 340,000 acre-ft (419 hm³) between elevations 670.0 ft (204.22 m), outlet and 800.0 ft (243.84 m), crest of spillway. Dead storage, 10,000 acre-ft (12.3 hm³). Figures given herein represent total contents. Reservoir is used for flood control and water released down Nacimiento River for irrigation. Record of contents furnished by Monterey County Flood Control and Water Conservation District.

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

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 270,400 acre-ft (334 hm³) Apr. 20-29, elevation, 784.00 ft (238.963 m); minimum observed, 142,400 acre-ft (176.0 hm³) Sept. 30, elevation, 750.90 ft (228.874 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 mi² (855 km²). PERIOD OF RECORD, December 1965 to current year. Monthend contents prior to October 1970, published in WSP 2129. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Monterey County Flood Control and Water Conservation District).

Reservoir is formed by earthfill dam completed in 1965. Total capacity, 350,000 acre-ft (432 hm³); usable capacity, 330,000 acre-ft (407 hm³) between elevations 662.0 ft (201.78 m), minimum pool and 780.0 ft (237.74 m), crest of spillway. Dead storage, 20,000 acre-ft (24.7 hm³). Records given herein represent total contents. Reservoir is used for flood control and water released down San Antonio River for irrigation. Record of contents furnished by Monterey County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 357,000 acre-ft (440 hm³) Feb. 26-28, 1980, elevation, 781.2 ft (238.11 m); minimum since appreciable storage was attained, 22,000 acre-ft (27.1 hm³) Dec. 13-17, 1977, elevation, 664.50 ft (202.540 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 315,700 acre-ft (389 hm³) Apr. 23-25, elevation, 773.90 ft (236.885 m); minimum, 280,100 acre-ft (345 hm³) Sept. 30, elevation, 767.20 ft (233.843 m).

MONTHEND CONTENTS, IN ACRE-FEET, AT 2400, OCTOBER 1980 TO SEPTEMBER 1981

Date	Lake Nacimiento	San Antonio Reservoir
Sept. 30, 1980.	225800	302400
Oct. 31.....	217700	299200
Nov. 30.....	215800	297600
Dec. 31.....	213900	292900
Jan. 31, 1981..	231200	294700
Feb. 29.....	222300	298900
Mar. 31.....	266500	312700
Apr. 30.....	270300	315100
May 31.....	252100	311600
June 30.....	228200	302700
July 31.....	200700	292600
Aug. 31.....	170000	284500
Sept. 30.....	142400	280100

SALINAS RIVER BASIN

11149400 NACIMIENTO RIVER BELOW NACIMIENTO DAM, NEAR BRADLEY, CA

LOCATION.--Lat 35°45'41", long 120°51'16", in NE¼NE¼ sec.14, T.25 S., R.10 E., San Luis Obispo County, Hydrologic Unit 18060005, Camp Roberts Military Reservation, on left bank 2.2 mi (3.5 km) downstream from Nacimiento Dam, and 7.6 mi (12.2 km) southwest of Bradley.

DRAINAGE AREA.--322 mi² (834 km²).

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

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

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

AVERAGE DISCHARGE (unadjusted).--24 years, 292 ft³/s (8.269 m³/s), 211,600 acre-ft/yr (261 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,340 ft³/s (208 m³/s) Feb. 25, 1969, gage height, 10.92 ft (3.328 m); no flow for many days in each year except 1964, 1966-76, 1978-80.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,810 ft³/s (75.6 m³/s) January 30, gage height, 7.60 ft (2.316 m); minimum daily, 8.2 ft³/s (0.232 m³/s) January 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	13	14	43	2590	26	19	154	373	469	540	482
2	236	13	14	43	2440	25	19	154	362	468	540	481
3	236	13	44	43	1030	26	19	153	293	467	539	480
4	236	13	77	43	64	28	19	153	293	467	539	480
5	236	13	76	43	62	26	19	149	293	467	539	479
6	236	13	74	43	61	25	19	153	293	466	528	479
7	236	13	74	43	60	25	19	154	293	466	456	479
8	236	13	73	42	62	25	19	208	293	467	454	479
9	235	13	73	42	111	24	19	290	293	466	453	479
10	236	13	73	42	800	24	19	293	293	467	472	479
11	236	13	72	42	545	24	20	293	292	466	487	479
12	236	13	72	42	154	24	19	295	292	466	487	479
13	235	13	71	42	238	24	19	297	292	465	487	479
14	234	13	71	42	183	23	19	300	292	464	486	479
15	133	12	71	42	108	23	19	303	293	464	485	479
16	15	12	71	42	108	23	19	304	292	464	485	479
17	14	12	71	41	93	23	19	305	357	464	484	479
18	14	12	71	41	12	22	20	305	409	464	484	479
19	14	12	71	42	11	24	19	354	410	463	484	441
20	14	14	71	41	11	22	19	384	408	463	484	384
21	14	14	71	41	10	23	19	383	408	463	484	384
22	14	14	72	42	10	21	19	381	408	463	483	384
23	14	14	72	105	12	21	19	380	407	462	484	384
24	14	13	72	165	24	21	19	377	405	463	483	384
25	14	13	72	164	25	21	19	377	405	463	483	384
26	14	13	71	164	24	21	19	376	405	463	483	385
27	13	13	70	136	24	19	19	374	405	504	483	385
28	11	13	71	8.4	25	19	54	373	405	543	483	387
29	11	13	70	8.2	---	19	153	373	405	543	483	387
30	11	13	60	1500	---	19	154	374	440	542	483	387
31	13	---	43	2690	---	19	---	373	---	542	483	---
TOTAL	3647	389	2048	5867.6	8897	709	876	9142	10509	14764	15228	13305
MEAN	118	13.0	66.1	189	318	22.9	29.2	295	350	476	491	444
MAX	236	14	77	2690	2590	28	154	384	440	543	540	482
MIN	11	12	14	8.2	10	19	19	149	292	462	453	384
AC-FT	7230	772	4060	11640	17650	1410	1740	18130	20840	29280	30200	26390
CAL YR 1980	TOTAL	175692.12	MEAN	480	MAX	4930	MIN	.84	AC-FT	348500		
WTR YR 1981	TOTAL	85381.60	MEAN	234	MAX	2690	MIN	8.2	AC-FT	169400		

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA

LOCATION.--Lat 35°53'48", long 121°05'14", in Los Ojitos Grant, Monterey County, Hydrologic Unit 18060005, on downstream side of highway bridge, 0.4 mi (0.6 km) upstream from Tule Canyon, and 3.3 mi (5.3 km) south of Lockwood.

DRAINAGE AREA.--223 mi² (578 km²).

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--16 years, 104 ft³/s (2.945 m³/s), 75,350 acre-ft/yr (92.9 hm³/yr).

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

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

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 29	0700	*2980	84.4	8.69	2.649
Mar. 21	1545	1670	47.3	7.74	2.359

Minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	13	191	75	153	31	4.9			
2			0	12	150	118	143	32	4.4			
3			0	13	122	72	126	33	3.2			
4			26	12	110	70	114	32	2.2			
5			36	12	113	262	110	33	1.5			
6			17	12	113	177	100	31	1.2			
7			13	12	101	142	92	30	1.0			
8			12	12	101	126	89	28	.42			
9			11	12	181	114	87	24	.32			
10			9.7	11	156	98	83	22	.40			
11			9.5	12	118	85	77	20	.23			
12			11	12	100	79	73	20	.02			
13			14	11	84	78	69	19	.02			
14			15	11	74	84	64	18	.02			
15			11	11	78	76	58	17	.02			
16			11	12	65	76	54	15	.02			
17			11	11	67	75	52	15	.01			
18			12	11	64	72	57	14	0			
19			11	13	66	313	59	14	0			
20			11	13	66	297	55	16	0			
21			13	14	65	871	52	16	0			
22			11	16	65	632	46	14	0			
23			12	26	65	392	43	12	0			
24			12	28	61	283	44	11	0			
25			12	21	61	218	41	10	0			
26			13	17	61	202	42	10	0			
27			12	122	62	184	39	9.0	0			
28			13	938	59	164	38	8.8	0			
29			12	1200	---	188	34	7.9	0			
30			13	489	---	178	32	6.8	0			
31		---	13	256	---	161	---	5.5	---			---
TOTAL	0	0	377.2	3365	2619	5962	2126	575.0	19.88	0	0	0
MEAN	0	0	12.2	109	93.5	192	70.9	18.5	.66	0	0	0
MAX	0	0	36	1200	191	871	153	33	4.9	0	0	0
MIN	0	0	0	11	59	70	32	5.5	0	0	0	0
AC-FT	0	0	748	6670	5190	11830	4220	1140	39	0	0	0
CAL YR 1980	TOTAL	69066.35	MEAN	189	MAX	3910	MIN	0	AC-FT	137000		
WTR YR 1981	TOTAL	15044.08	MEAN	41.2	MAX	1200	MIN	0	AC-FT	29840		

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 1980 TO SEPTEMBER 1981

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)
FEB 04...	1705	13.5	104	43	12
MAR 18...	1635	16.0	67	9	1.6
APR 07...	1540	22.0	95	8	2.1

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 24...	1520	1	.00	2	9	32	60
24...	1525	1	.00	--	--	4	21
24...	1530	1	.00	--	--	--	13
24...	1535	1	.00	--	--	4	18
24...	1540	1	.00	1	1	3	7

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
JUL 24...	86	94	96	97	98	100
24...	51	76	89	94	97	100
24...	55	88	97	99	100	--
24...	37	59	78	91	97	100
24...	24	61	81	91	99	100

11150500 SALINAS RIVER NEAR BRADLEY, CA

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

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

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).--33 years, 454 ft³/s (12.86 m³/s), 328,900 acre-ft/yr (406 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,420 ft³/s (96.9 m³/s) Mar. 27, gage height, 8.23 ft (2.509 m); minimum daily, 19 ft³/s (0.538 m³/s) Nov. 1-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	321	19	24	189	2700	41	193	207	394	599	707	501
2	321	19	23	187	2450	68	186	193	383	577	702	501
3	321	19	24	191	1860	127	179	190	368	575	687	501
4	321	19	36	195	285	125	166	186	359	575	670	501
5	319	20	65	197	180	192	153	179	359	574	667	492
6	305	21	108	196	147	671	144	168	392	573	685	481
7	304	21	123	184	131	464	137	178	403	607	673	484
8	304	21	128	180	124	332	132	197	400	610	670	492
9	301	21	130	181	126	292	132	268	392	594	669	493
10	300	21	132	178	288	245	132	309	384	633	687	495
11	296	21	134	173	830	230	132	312	370	652	680	497
12	296	21	136	173	206	230	132	312	371	659	686	488
13	292	21	136	175	223	226	132	320	380	661	683	483
14	288	22	136	176	244	189	132	342	385	653	692	486
15	288	22	140	172	173	187	132	352	385	652	693	488
16	145	22	141	170	149	185	131	353	386	651	693	488
17	120	22	146	172	139	169	129	348	401	658	705	485
18	95	22	148	170	127	166	129	346	507	644	715	484
19	80	22	150	169	99	189	129	325	535	631	718	487
20	72	22	194	170	78	1000	129	377	533	651	710	427
21	44	23	205	172	61	825	129	391	523	663	698	433
22	31	23	210	172	49	2060	129	397	534	667	686	440
23	29	23	214	179	38	1100	129	400	540	670	677	444
24	26	23	210	154	29	633	129	400	530	663	679	442
25	25	24	212	163	32	399	129	398	521	673	678	437
26	25	24	218	162	34	312	129	398	513	672	675	433
27	23	24	220	164	34	281	129	397	506	662	684	431
28	22	24	220	142	35	272	129	393	503	645	674	435
29	21	24	219	99	---	246	137	394	508	644	675	437
30	20	24	209	297	---	223	178	394	544	681	627	426
31	20	---	198	2700	---	208	---	394	---	701	501	---
TOTAL	5375	654	4589	8002	10871	11887	4208	9818	13309	19770	21046	14112
MEAN	173	21.8	148	258	388	383	140	317	444	638	679	470
MAX	321	24	220	2700	2700	2060	193	400	544	701	718	501
MIN	20	19	23	99	29	41	129	168	359	573	501	426
AC-FT	10660	1300	9100	15870	21560	23580	8350	19470	26400	39210	41740	27990
CAL YR 1980	TOTAL	347094.6	MEAN 948	MAX 23000	MIN 1.5	AC-FT 688500						
WTR YR 1981	TOTAL	123641.0	MEAN 339	MAX 2700	MIN 19	AC-FT 245200						

SALINAS RIVER BASIN

11150500 SALINAS RIVER NEAR BRADLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: October 1979 to current year.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPECIFIC COND MICROMHO	PH FIELD (UNITS)	TEMP WATER (DEG C)	OXYGEN DISS (MG/L)	COD LOWLEVEL (MG/L)	BOD 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM CA,DISS (MG/L)	MAGNESIUM MG,DISS (MG/L)
80/10/21	14 45	484	8.2	21.0	10.2			200	50	19
80/11/24	13 30	634	8.4	12.0	11.5			240	58	22
80/12/23	12 30	343	7.4	12.0	10.7			170	44	14
81/01/28	09 45	305	8.6	11.0	11.2			140	35	13
81/02/24	14 00	850	8.4	14.0	10.5			250	60	24
81/03/25	12 00	547	8.2	18.0	10.7	18	1.0	240	58	24
81/04/21	14 00	750	8.3	25.0	8.8			300	72	29
81/05/26	15 30	317	8.2	22.0	8.9			130	32	13
81/06/24	10 45	302	8.2	21.0	9.8			140	34	13

DATE	TIME	SODIUM NA,DISS (MG/L)	POTASSIUM K,DISS (MG/L)	ALKA- LINITY (MG/L)	SULFATE SO4-DISS (MG/L)	CHLORIDE CL DISS (MG/L)	ROE DISS 180 C (MG/L)	RESIDUE TOT NFLT (MG/L)	NO2+NO3 N-DISS (MG/L)	AMMONIA N DISS (MG/L)	AMMONIA+ ORG TOT N(MG/L)
80/10/21	14 45	32	2.1	160	84	18	324		0.08	0.01	0.30
80/11/24	13 30	39	2.4	170	110	20	380		0.05	0.00	0.20
80/12/23	12 30	18	2.1	120	63	12	248		0.31	0.01	0.40
81/01/28	09 45	14	1.5	110	47	10	225		0.15	0.00	0.40
81/02/24	14 00	46	2.5	170	120	28	435		0.24	0.01	0.30
81/03/25	12 00	36	2.2	170	94	34	450	106	0.62	0.00	0.50
81/04/21	14 00	55	2.8	210	130	49	514		0.18	0.01	0.20
81/05/26	15 30	13	1.4	100	42	9	200		0.02	0.00	0.20
81/06/24	10 45	13	1.4	110	43	8	206		0.11	0.00	0.20

DATE	TIME	PHOS-TOT AS P (MG/L)	PHOS-DIS ORTHO P (MG/L)	ORGANIC CARBON T (MG/L)	BORON B,DISS (UG/L)
80/10/21	14 45	0.07	0.04		100
80/11/24	13 30	0.07	0.03		200
80/12/23	12 30	0.16	0.10		0
81/01/28	09 45	0.11	0.01		100
81/02/24	14 00	0.09	0.04		200
81/03/25	12 00	0.27	0.07	6.0	200
81/04/21	14 00	0.13	0.05		200
81/05/26	15 30	0.05	0.01		200
81/06/24	10 45	0.07	0.03		0

DATE	TIME	ARSENIC AS,DISS (UG/L)	BARIUM BA,DISS (UG/L)	CADMIUM CD,DISS (UG/L)	CHROMIUM CR,DISS (UG/L)	COPPER CU,DISS (UG/L)	IRON FE,DISS (UG/L)	LEAD PB,DISS (UG/L)	MANGNESE MN,DISS (UG/L)	MERCURY HG,TOTAL (UG/L)	SELENIUM SE,DISS (UG/L)
80/10/21	14 45	0	0	0	0	0	20	0	20	0.0	0
81/01/28	09 45	0	0	0	0	0	10	0	10	0.0	0
81/04/21	14 00	0	0	0	0	0	20	0	0	0.0	10

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

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

DRAINAGE AREA.--233 mi² (603 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 431.64 ft (131.564 m) National Geodetic Vertical Datum of 1929. Oct. 1958 to Apr. 24, 1967, at site 500 ft (152 m) upstream at datum 5.00 ft (1.524 m) higher. Apr. 25, 1967, to July 12, 1981, at site 200 ft upstream.

REMARKS.--Records fair except those for periods of no gage-height record, Dec. 3 to Jan. 19 and Apr. 4 to May 15, which are poor. No regulation; small diversions above station.

AVERAGE DISCHARGE.--23 years, 13.7 ft³/s (0.388 m³/s), 9,930 acre-ft/yr (12.2 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge 581 ft³/s (16.5 m³/s) Mar. 19 (1315 hrs), gage height 6.60 ft (2.012 m), no other peak above base of 250 ft³/s (7.1 m³/s); minimum daily discharge, 0.27 ft³/s (0.008 m³/s) July 30 to Aug. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.4	1.4	3.0	28	3.3	11	2.0	.63	.30	.27	.40
2	1.1	1.4	1.3	3.2	23	3.0	16	1.9	.61	.29	.27	.41
3	.73	1.5	1.9	1.0	20	34	13	1.8	.59	.29	.27	.41
4	.77	1.6	9.0	3.0	17	33	9.1	1.7	.57	.30	.27	.42
5	.91	1.5	13	3.3	15	125	8.0	1.7	.55	.32	.27	.43
6	.93	1.6	8.6	3.3	13	57	7.2	1.6	.54	.34	.27	.44
7	1.6	1.6	5.0	3.3	12	24	7.0	1.5	.53	.36	.28	.45
8	1.9	1.6	4.1	3.3	10	19	7.7	1.4	.52	.48	.28	.46
9	1.7	1.6	3.5	3.3	42	16	7.1	1.4	.50	.40	.28	.47
10	2.1	1.5	3.0	3.3	50	14	6.0	1.3	.49	.44	.29	.48
11	2.5	1.6	2.6	3.3	28	12	5.5	1.3	.32	.45	.29	.49
12	3.0	1.6	2.2	3.2	23	11	5.0	1.2	.47	.45	.30	.50
13	2.9	1.6	2.2	2.9	19	10	4.7	1.2	.46	.45	.30	.51
14	3.2	1.6	2.2	2.9	16	20	4.3	1.1	.45	.44	.30	.52
15	2.6	1.7	2.2	2.9	14	14	4.0	1.1	.44	.41	.31	.52
16	2.1	1.7	2.2	2.9	12	12	3.7	1.0	.42	.39	.31	.53
17	1.8	1.6	2.1	2.9	10	10	3.4	.97	.42	.37	.32	.54
18	1.6	1.6	2.1	2.9	9.0	9.0	4.5	.94	.41	.36	.32	.55
19	1.6	1.7	2.2	2.7	8.0	203	5.8	.91	.40	.34	.33	.56
20	1.6	1.7	2.4	2.8	7.5	80	5.3	.90	.39	.33	.33	.57
21	1.6	1.5	2.6	2.8	7.0	81	4.6	.89	.38	.32	.34	.59
22	1.6	1.4	2.6	3.9	6.5	150	3.8	.87	.37	.31	.34	.60
23	1.5	1.4	2.7	7.1	5.8	38	2.9	.83	.36	.29	.35	.61
24	1.4	1.3	2.8	4.3	5.3	22	2.8	.80	.36	.29	.36	.62
25	1.5	1.5	2.9	4.0	5.0	16	2.7	.77	.35	.28	.36	.64
26	1.6	1.6	2.9	3.8	4.7	14	2.5	.75	.34	.28	.36	.65
27	1.6	1.6	2.9	3.6	5.7	15	2.4	.73	.33	.28	.37	.66
28	1.6	1.6	2.9	45	13	10	2.3	.71	.32	.28	.37	.68
29	1.6	1.6	2.9	81	---	9.0	2.2	.69	.31	.28	.38	.69
30	1.6	1.5	2.9	74	---	8.0	2.1	.66	.31	.27	.39	.71
31	1.5	---	2.9	41	---	7.0	---	.64	---	.27	.40	---
TOTAL	52.94	46.7	104.2	329.9	429.5	1079.3	166.6	35.26	13.14	10.66	9.88	16.11
MEAN	1.71	1.56	3.36	10.6	15.3	34.8	5.55	1.14	.44	.34	.32	.54
MAX	3.2	1.7	13	81	50	203	16	2.0	.63	.48	.40	.71
MIN	.73	1.3	1.3	1.0	4.7	3.0	2.1	.64	.31	.27	.27	.40
AC-FT	105	93	207	654	852	2140	330	70	26	21	20	32
CAL YR 1980	TOTAL	6336.86	MEAN	17.3	MAX	459	MIN	.67	AC-FT	12570		
WTR YR 1981	TOTAL	2294.19	MEAN	6.29	MAX	203	MIN	.27	AC-FT	4550		

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 mi² (293 km²).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records fair except those for period of no gage-height record, Oct. 23 to Nov. 24, which are poor. No regulation; small diversion for fishponds above station by pumping.

AVERAGE DISCHARGE.--20 years, 149 ft³/s (4.220 m³/s), 108,000 acre-ft/yr (133 hm³/yr).

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

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

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 27	1700	*7750	219	12.57	3.831	Mar. 21	1030	2820	79.9	10.50	3.200
Mar. 19	0545	1550	43.9	9.60	2.926						

Minimum daily discharge, 5.5 ft³/s (0.156 m³/s) Sept. 11-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	17	19	21	303	290	305	79	39	15	8.3	6.0
2	16	16	22	21	231	198	314	76	38	15	8.2	6.0
3	13	16	145	21	192	159	278	75	37	14	8.0	5.9
4	11	16	423	21	164	364	256	73	37	14	8.0	5.9
5	13	17	65	21	144	329	239	71	35	14	7.9	5.8
6	13	17	41	21	129	255	225	69	33	13	7.9	5.8
7	12	17	34	20	117	220	215	67	33	13	7.8	5.7
8	12	17	30	20	145	197	202	65	33	12	7.7	5.7
9	13	18	28	20	333	180	193	63	32	12	7.6	5.6
10	12	19	26	20	210	165	183	61	31	12	7.5	5.6
11	13	18	25	21	183	147	175	59	31	12	7.4	5.5
12	12	19	24	21	162	144	166	57	31	12	7.3	5.5
13	13	19	23	21	129	177	159	57	32	11	7.2	5.5
14	15	19	23	21	138	155	152	56	31	11	7.1	5.5
15	16	20	23	21	125	151	146	57	30	11	7.1	5.5
16	16	19	22	21	115	173	139	58	29	11	7.0	5.5
17	16	19	22	21	108	150	136	56	26	11	7.0	5.5
18	16	19	21	21	101	161	138	54	24	10	6.9	5.5
19	16	19	21	20	94	869	136	56	23	10	6.8	5.5
20	16	19	22	20	89	614	127	56	22	10	6.7	5.5
21	16	19	22	21	85	1620	121	53	21	9.9	6.7	5.5
22	15	20	22	80	82	913	115	52	20	9.7	6.6	5.5
23	15	20	22	198	79	613	111	50	19	9.6	6.6	5.5
24	15	19	23	128	89	482	105	48	18	9.4	6.5	5.5
25	15	18	22	97	97	428	103	46	18	9.3	6.4	5.5
26	15	18	22	89	88	456	99	47	17	9.1	6.4	5.5
27	16	18	22	2310	81	388	95	46	17	9.0	6.3	5.5
28	15	18	22	2040	95	361	90	44	16	8.9	6.3	5.5
29	15	19	21	3160	---	348	86	43	16	8.8	6.2	5.5
30	14	19	21	910	---	335	83	41	15	8.7	6.2	5.5
31	15	---	21	462	---	323	---	40	---	8.5	6.1	---
TOTAL	446	548	1299	9909	3908	11365	4892	1775	804	343.9	219.7	168.0
MEAN	14.4	18.3	41.9	320	140	367	163	57.3	26.8	11.1	7.09	5.60
MAX	16	20	423	3160	333	1620	314	79	39	15	8.3	6.0
MIN	11	16	19	20	79	144	83	40	15	8.5	6.1	5.5
AC-FT	885	1090	2580	19650	7750	22540	9700	3520	1590	682	436	333
CAL YR 1980	TOTAL	101633.0	MEAN	278	MAX	6000	MIN	11	AC-FT	201600		
WTR YR 1981	TOTAL	35677.6	MEAN	97.7	MAX	3160	MIN	5.5	AC-FT	70770		

WATER-QUALITY RECORDS

SEDIMENT RECORDS: Water years 1962 to current year.

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

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

SEDIMENT DISCHARGE: Maximum daily, 121,100 tons (11,000 metric tons) Jan. 29; minimum daily, 0.03 ton (0.03 metric ton) Sept. 29, 30.

[illegible]

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	16	6	.26	17	3	.14	19	1	.05
2	16	2	.09	16	3	.13	22	2	.12
3	13	2	.07	16	4	.17	145	33	60
4	11	10	.30	16	3	.13	423	67	105
5	13	3	.11	17	2	.09	65	7	1.2
6	13	3	.11	17	2	.09	41	4	.44
7	12	3	.10	17	2	.09	34	2	.18
8	12	3	.10	17	2	.09	30	1	.08
9	13	3	.11	18	2	.10	28	1	.08
10	12	7	.23	19	2	.10	26	1	.07
11	13	4	.14	18	3	.15	25	2	.14
12	12	3	.10	19	4	.21	24	4	.26
13	13	2	.07	19	3	.15	23	3	.19
14	15	3	.12	19	3	.15	23	2	.12
15	16	9	.39	20	3	.16	23	2	.12
16	16	6	.26	19	3	.15	22	2	.12
17	16	5	.22	19	3	.15	22	2	.12
18	16	3	.13	19	3	.15	21	2	.11
19	16	3	.13	19	3	.15	21	2	.11
20	16	3	.13	19	3	.15	22	2	.12
21	16	3	.13	19	2	.10	22	2	.12
22	15	4	.16	20	2	.11	22	2	.12
23	15	3	.12	20	2	.11	22	2	.12
24	15	2	.08	19	1	.05	23	2	.12
25	15	2	.08	18	1	.05	22	2	.12
26	15	2	.08	18	1	.05	22	1	.06
27	16	2	.09	18	1	.05	22	1	.06
28	15	2	.08	18	1	.05	22	2	.12
29	15	1	.04	19	1	.05	21	4	.23
30	14	2	.08	19	1	.05	21	3	.17
31	15	2	.08	---	---	---	21	3	.17
TOTAL	446	---	4.19	548	---	3.37	1299	---	170.04
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	21	4	.23	303	7	5.7	290	14	15
2	21	3	.17	231	3	1.9	198	11	5.9
3	21	3	.17	192	2	1.0	159	6	2.6
4	21	6	.34	164	2	.89	364	26	49
5	21	3	.17	144	1	.39	329	15	13
6	21	2	.11	129	1	.35	255	4	2.8
7	20	2	.11	117	1	.32	220	3	1.8
8	20	1	.05	145	2	.78	197	3	1.6
9	20	1	.05	333	9	8.1	180	3	1.5
10	20	1	.05	210	2	1.1	165	3	1.3
11	21	1	.06	183	2	.99	147	3	1.2
12	21	1	.06	162	1	.44	144	1	.39
13	21	1	.06	129	1	.35	177	5	2.4
14	21	2	.11	138	1	.37	155	2	.84
15	21	2	.11	125	1	.34	151	2	.82
16	21	2	.11	115	1	.31	173	3	1.4
17	21	1	.06	108	1	.29	150	4	1.6
18	21	1	.06	101	1	.27	161	4	1.7
19	20	1	.05	94	1	.25	869	151	313
20	20	1	.05	89	1	.24	614	182	303
21	21	2	.11	85	1	.23	1620	145	683
22	80	10	6.6	82	1	.22	913	15	37
23	198	23	12	79	1	.21	613	4	6.6
24	128	9	3.1	89	1	.24	482	4	5.2
25	97	5	1.3	97	2	.52	428	3	3.5
26	89	3	.72	88	2	.48	456	3	3.7
27	2310	1110	10100	81	1	.22	388	2	2.1
28	2040	361	2820	95	2	.51	361	2	1.9
29	3160	980	12100	---	---	---	348	2	1.9
30	910	56	138	---	---	---	335	2	1.8
31	462	21	26	---	---	---	323	2	1.7
TOTAL	9909	---	25210.01	3908	---	27.01	11365	---	1469.25

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	APRIL				MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	305	1	.82	79	2	.43	39	1	.11	
2	314	2	1.7	76	2	.41	38	1	.10	
3	278	2	1.5	75	2	.41	37	1	.10	
4	256	2	1.4	73	2	.39	37	1	.10	
5	239	2	1.3	71	3	.58	35	1	.09	
6	225	2	1.2	69	2	.37	33	1	.09	
7	215	1	.58	67	2	.36	33	1	.09	
8	202	1	.55	65	2	.35	33	1	.09	
9	193	1	.52	63	2	.34	32	1	.09	
10	183	2	.99	61	1	.16	31	1	.08	
11	175	2	.95	59	1	.16	31	2	.17	
12	166	2	.90	57	1	.15	31	2	.17	
13	159	2	.86	57	1	.15	32	2	.17	
14	152	2	.82	56	1	.15	31	3	.25	
15	146	4	1.6	57	1	.15	30	2	.16	
16	139	2	.75	58	1	.16	29	2	.16	
17	136	1	.37	56	1	.15	26	2	.14	
18	138	1	.37	54	1	.15	24	3	.19	
19	136	1	.37	56	1	.15	23	3	.19	
20	127	2	.69	56	1	.15	22	2	.12	
21	121	2	.65	53	1	.14	21	2	.11	
22	115	2	.62	52	1	.14	20	2	.11	
23	111	2	.60	50	1	.14	19	2	.10	
24	105	2	.57	48	1	.13	18	4	.19	
25	103	2	.56	46	1	.12	18	7	.34	
26	99	2	.53	47	1	.13	17	6	.28	
27	95	2	.51	46	1	.12	17	3	.14	
28	90	2	.49	44	2	.24	16	2	.09	
29	86	2	.46	43	2	.23	16	2	.09	
30	83	2	.45	41	2	.22	15	2	.08	
31	---	---	---	40	1	.11	---	---	---	
TOTAL	4892	---	23.68	1775	---	7.04	804	---	4.19	
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	15	2	.08	8.3	3	.07	6.0	3	.05	
2	15	2	.08	8.2	3	.07	6.0	3	.05	
3	14	2	.08	8.0	3	.06	5.9	3	.05	
4	14	2	.08	8.0	5	.11	5.9	4	.06	
5	14	3	.11	7.9	5	.11	5.8	3	.05	
6	13	7	.25	7.9	5	.11	5.8	3	.05	
7	13	8	.28	7.8	5	.11	5.7	3	.05	
8	12	6	.19	7.7	8	.17	5.7	3	.05	
9	12	3	.10	7.6	5	.10	5.6	3	.05	
10	12	3	.10	7.5	4	.08	5.6	4	.06	
11	12	4	.13	7.4	4	.08	5.5	3	.04	
12	12	4	.13	7.3	4	.08	5.5	3	.04	
13	11	5	.15	7.2	4	.08	5.5	5	.07	
14	11	9	.27	7.1	6	.12	5.5	15	.22	
15	11	5	.15	7.1	5	.10	5.5	14	.21	
16	11	2	.06	7.0	4	.08	5.5	12	.18	
17	11	2	.06	7.0	4	.08	5.5	11	.16	
18	10	2	.05	6.9	4	.07	5.5	10	.15	
19	10	2	.05	6.8	4	.07	5.5	10	.15	
20	10	2	.05	6.7	5	.09	5.5	10	.15	
21	9.9	2	.05	6.7	5	.09	5.5	10	.15	
22	9.7	2	.05	6.6	5	.09	5.5	9	.13	
23	9.6	2	.05	6.6	4	.07	5.5	8	.12	
24	9.4	2	.05	6.5	4	.07	5.5	8	.12	
25	9.3	2	.05	6.4	4	.07	5.5	5	.07	
26	9.1	2	.05	6.4	4	.07	5.5	5	.07	
27	9.0	5	.12	6.3	4	.07	5.5	5	.07	
28	8.9	4	.10	6.3	4	.07	5.5	3	.04	
29	8.8	4	.10	6.2	4	.07	5.5	2	.03	
30	8.7	7	.16	6.2	3	.05	5.5	2	.03	
31	8.5	4	.09	6.1	3	.05	---	---	---	
TOTAL	343.9	---	3.32	219.7	---	2.61	168.0	---	2.72	
YEAR	35677.6		26927.43							

SALINAS RIVER BASIN

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
DEC 04...	0915	12.0	622	84	141	--	--	--
JAN 27...	1610	8.0	4910	1610	21300	12	16	23
28...	1335	10.0	1410	65	247	--	--	--
MAR 20...	1640	8.5	504	174	237	--	--	--

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
DEC 04...	--	--	76	78	82	92	100
JAN 27...	31	40	52	70	94	100	--
28...	--	--	64	72	83	89	100
MAR 20...	--	--	57	74	94	100	--

11152000 ARROYO SECO NEAR SOLEDAD, CA

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

DRAINAGE AREA.--244 mi² (632 km²).

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

REVISED RECORDS.--WSP 881: 1902-9 (yearly summary only). WSP 1565: 1916-19, 1920-21(M), 1922, 1926-27, 1928-30(M), 1932, 1934, 1936(M). WSP 1715: Drainage area.

GAGE.--Waterstage recorder. Datum of gage is 339.20 ft (103,388 m) National Geodetic Vertical Datum of 1929. Prior to June 16, 1929 nonrecording gage, and June 16, 1929, to Dec. 2, 1941, water-stage recorder at site 1 mi (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.--80 years, 164 ft³/s (4.644 m³/s), 118,800 acre-ft/yr (146 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,650 ft³/s (217 m³/s) Jan. 27 (1945 hrs), gage height 8.86 ft (2.701 m), no other peak above base of 2,500 ft³/s (70.8 m³/s); minimum daily discharge, 0.22 ft³/s (0.006 m³/s) Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	27	27	32	377	371	305	86	45	16	6.1	5.4
2	23	26	28	32	292	309	322	81	44	17	5.9	4.7
3	23	25	45	33	239	215	285	82	43	16	5.4	3.5
4	23	25	423	34	202	402	260	80	42	15	5.6	4.1
5	25	26	114	35	176	489	238	77	39	13	6.1	4.8
6	24	26	63	35	158	329	224	77	38	13	6.1	4.6
7	22	26	49	35	143	275	215	74	36	13	5.7	4.2
8	21	26	44	35	143	246	204	73	35	13	5.0	4.6
9	21	28	41	35	404	223	194	71	34	12	5.1	4.6
10	20	29	38	35	288	202	186	71	33	13	4.4	4.4
11	21	29	36	34	233	185	177	69	32	13	3.8	4.0
12	21	30	35	33	202	171	170	67	31	12	3.4	4.0
13	22	30	34	33	180	199	161	65	32	10	4.7	4.0
14	24	30	32	33	170	199	155	64	32	10	5.1	4.0
15	25	30	32	33	158	170	148	64	31	10	4.6	3.5
16	25	29	34	33	145	211	141	64	29	9.1	4.6	2.3
17	25	29	38	33	137	176	138	63	28	10	5.0	1.6
18	25	29	37	33	126	166	140	62	27	11	4.7	1.0
19	25	29	37	33	118	790	147	63	26	10	4.6	1.7
20	25	29	40	33	111	588	138	67	25	9.9	4.4	2.1
21	24	29	36	34	106	1340	126	64	23	8.6	4.4	1.5
22	23	30	36	37	101	913	119	62	22	8.6	4.6	.37
23	23	30	40	159	95	654	113	60	22	8.6	5.7	.23
24	23	30	39	105	102	530	108	58	19	8.4	7.3	.22
25	23	29	37	68	121	476	104	56	19	7.7	5.8	1.1
26	24	29	38	59	116	515	101	57	19	7.7	6.1	2.0
27	25	29	35	1760	101	453	99	57	20	6.9	5.3	1.2
28	24	28	33	1910	102	395	95	54	20	6.8	3.9	2.6
29	23	27	33	2910	---	364	92	51	17	6.8	5.3	2.8
30	22	27	33	1010	---	339	90	48	15	6.5	4.3	3.2
31	26	---	37	548	---	315	---	46	---	6.1	4.6	---
TOTAL	725	846	1624	9272	4846	12210	4995	2033	878	328.7	157.6	88.32
MEAN	23.4	28.2	52.4	299	173	394	167	65.6	29.3	10.6	5.08	2.94
MAX	26	30	423	2910	404	1340	322	86	45	17	7.3	5.4
MIN	20	25	27	32	95	166	90	46	15	6.1	3.4	.22
AC-FT	1440	1680	3220	18390	9610	24220	9910	4030	1740	652	313	175
CAL YR 1980	TOTAL	141514.00	MEAN 387	MAX 8860	MIN 20	AC-FT 280700						
WTR YR 1981	TOTAL	38003.62	MEAN 104	MAX 2910	MIN .22	AC-FT 75380						

SALINAS RIVER BASIN

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

LOCATION.--Lat 36°33'14", long 121°32'53", in Guadalupe Y Llanitos de Los Correos Grant, Monterey County, Hydrologic Unit 18060005, near left bank on downstream side of bridge on Chualar-River Road, 2 mi (3 km) southwest of Chualar.

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

WATER-DISCHARGE RECORDS

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

GAGE.--Water stage recorder installed January 1979 (nonrecording gage prior to 1979). Datum of gage is 68.00 ft (20.726 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Daily discharge prior to January 1979 determined by discharge measurements at this site correlated to streamflow for Salinas River at Soledad (station 11151700) and Salinas River near Spreckels (station 11152500). Flow partly regulated by Santa Margarita Lake (station 11144500), Lake Nacimiento, formerly Nacimiento Reservoir (station 11149300), and San Antonio Reservoir (station 11150100). Large withdrawals from ground water and small surface-water diversions for municipal use and irrigation above station.

AVERAGE DISCHARGE.--5 years, 512 ft³/s (14.50 m³/s), 370,900 acre-ft/yr (457 hm³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 37,000 ft³/s (1,050 m³/s) Feb. 11, 1978; no flow many days in 1977 and several days in 1978-80.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,410 ft³/s (68.3 m³/s) Jan. 29, gage height, 7.56 ft (2.304 m); no flow Oct. 24 to Dec. 24, May 3-17, June 14-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28		0	156	441	57	449	3.8	59	21	50	48
2	19		0	163	1230	61	423	.88	62	19	59	44
3	21		0	157	1520	72	390	0	59	23	70	38
4	22		0	146	1530	67	350	0	54	28	81	36
5	24		0	153	913	230	322	0	45	31	78	34
6	52		0	156	571	295	313	0	35	38	73	35
7	56		0	150	412	273	308	0	26	39	71	40
8	47		0	142	321	336	301	0	25	35	65	47
9	37		0	137	282	300	223	0	28	38	57	48
10	34		0	123	315	259	216	0	22	38	50	48
11	36		0	126	249	224	135	0	18	35	44	45
12	42		0	60	246	193	122	0	10	36	44	42
13	48		0	58	492	186	126	0	3.1	46	47	42
14	52		0	55	337	189	107	0	0	53	49	49
15	56		0	52	262	171	130	0	0	54	54	53
16	59		0	48	240	151	118	0	0	53	55	53
17	62		0	43	215	159	91	0	0	53	60	53
18	52		0	36	189	147	104	1.7	0	52	66	52
19	29		0	37	168	202	114	20	0	53	67	52
20	18		0	35	157	714	74	29	0	57	66	53
21	9.5		0	35	143	814	57	29	0	57	66	57
22	3.4		0	37	115	1540	78	28	0	58	63	56
23	.44		0	38	103	1450	82	32	0	59	62	47
24	0		0	39	91	1410	61	35	2.5	60	69	46
25	0		42	49	83	1040	43	44	11	58	75	46
26	0		74	50	73	876	38	53	12	58	78	47
27	0		92	69	66	857	31	59	10	64	77	49
28	0		111	1080	54	740	21	59	8.7	70	66	53
29	0		125	1530	---	630	13	58	13	70	52	60
30	0		136	1090	---	554	7.4	57	19	59	46	63
31	0	---	139	568	---	484	---	56	---	48	47	---
TOTAL	807.34	0	719	6618	10818	14681	4847.4	565.38	522.3	1463	1907	1436
MEAN	26.0	0	23.2	213	386	474	162	18.2	17.4	47.2	61.5	47.9
MAX	62	0	139	1530	1530	1540	449	59	62	70	81	63
MIN	0	0	0	35	54	57	7.4	0	0	19	44	34
AC-FT	1600	0	1430	13130	21460	29120	9610	1120	1040	2900	3780	2850
CAL YR 1980	TOTAL	384024.31	MEAN	1049	MAX	23700	MIN	0	AC-FT	761700		
WTR YR 1981	TOTAL	44384.42	MEAN	122	MAX	1540	MIN	0	AC-FT	88040		

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, 1,430 micromhos Aug. 19; minimum recorded, 181 micromhos May 20.
 WATER TEMPERATURES: Maximum recorded, 27°C Aug. 7; minimum recorded, 6.5°C Jan. 25.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
07...	1200	55	454	8.3	20.0	765	21	9.9	108	200	K22
JAN											
13...	1230	60	659	8.0	12.0	765	20	11.3	104	--	K22
FEB											
17...	1300	220	575	7.8	18.5	765	21	9.6	102	92	K40
MAR											
10...	1200	265	647	8.4	16.5	775	140	10.6	101	K150	350
APR											
21...	1200	48	1220	8.4	21.5	765	1.8	9.9	111	K4	K4
JUL											
16...	1500	55	365	8.8	25.0	760	40	8.2	100	K32	K46
AUG											
20...	1430	67	351	8.7	25.0	765	33	8.7	105	K8	K10
SEP											
22...	1400	58	355	8.5	22.5	760	17	9.6	112	K33	K8

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT										
07...	180	54	44	18	25	23	.8	2.2	140	72
JAN										
13...	250	85	57	25	41	26	1.1	2.4	180	130
FEB										
17...	240	74	58	22	34	24	1.0	2.4	160	110
MAR										
10...	240	--	58	24	40	26	1.1	2.5	170	110
APR										
21...	430	--	100	43	90	31	1.9	4.3	220	290
JUL										
16...	170	--	42	16	18	18	.6	1.7	130	61
AUG										
20...	150	--	36	14	16	19	.6	1.4	120	51
SEP										
22...	150	--	35	16	18	20	.7	1.6	120	45

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 1980 TO SEPTEMBER 1981

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)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 07...	18	.2	17	297	275	.40	44.1	.21	.20	.01
JAN 13...	24	.3	20	426	401	.58	69.0	1.3	1.2	.04
FEB 17...	26	.2	20	365	375	.50	217	1.1	1.1	.03
MAR 10...	33	.2	20	426	390	.58	305	1.3	1.3	.05
APR 21...	73	.2	20	807	766	1.1	105	4.4	4.4	.13
JUL 16...	17	.5	18	235	241	.32	34.9	.08	.11	.08
AUG 20...	15	.2	17	217	217	.30	39.3	.03	.03	.11
SEP 22...	11	.2	17	219	216	.30	34.3	<.10	<.10	.13

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC 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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT 07...	.01	1.1	.72	.73	1.3	.13	.05	4.8	--	--
JAN 13...	.00	1.7	1.4	1.4	3.0	.13	.08	1.9	--	--
FEB 17...	.03	.93	.72	.75	2.1	.19	.09	--	6.0	.1
MAR 10...	.06	1.8	.85	.91	3.1	.39	.13	12	--	--
APR 21...	.08	.85	.89	.97	5.4	.07	.04	3.7	--	--
JUL 16...	.08	.92	.66	.74	1.1	.16	.05	4.9	--	--
AUG 20...	.13	.77	.46	.59	.91	.20	.08	--	--	--
SEP 22...	<.06	.72	.51	.60	.85	.08	.04	3.1	--	--

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

SALINAS RIVER BASIN

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11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
FEB 17...	1300	4	3	100	60	0	<1	10	10	4
AUG 20...	1430	2	2	100	40	0	<1	10	10	0

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 PR)	LEAD, DIS- SOLVED (UG/L AS PR)	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)
FEB 17...	<3	5	2	2200	<10	4	1	50	2	.1
AUG 20...	<3	6	2	2300	15	4	2	50	3	.1

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 SF)	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)
FEB 17...	.0	11	1	1	1	0	0	50	<3
AUG 20...	.0	8	1	0	0	0	0	10	5

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

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE TIME	MAR 10,81 1200		JUL 16,81 1500		AUG 20,81 1430		SEP 22,81 1400	
TOTAL CELLS/ML	8400		15000		7900		4200	
DIVERSITY: DIVISION	0.3		1.2		1.4		0.5	
..CLASS	0.3		1.2		1.4		0.5	
..ORDER	1.6		1.6		2.5		1.8	
...FAMILY	1.7		2.2		2.9		1.8	
....GENUS	1.9		2.3		3.0		1.9	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...ACHNANTHALES								
....ACHNANTHACEAE								
.....ACHNANTHES								
.....COCCONEIS	67	1	*	0	--	--	--	--
.....RHODOSPHENIA	--	--	--	--	--	--	*	0
..BACILLARIALES								
...NITZSCHIALES								
....HANTZSCHIA	--	--	*	0	--	--	--	--
....NITZSCHIA	1200	15	350	2	720	9	270	6
..EUPODISCALES								
...COSCINODISCAEAE								
....CYCLOTELLA	300	4	100	1	420	5	28	1
....MELOSIRA	--	--	--	--	870	11	1100#	25
..FRAGILARIALES								
...FRAGILARIAEAE								
....DIATOMA	--	--	100	1	--	--	28	1
....FRAGILARIA	5300#	63	7900#	54	--	--	2400#	56
....SYNEDRA	300	4	--	--	680	9	--	--
..NAVICULALES								
...CYMBELLACEAE								
....AMPHORA	--	--	--	--	--	--	*	0
....CYMBELLA	--	--	100	1	680	9	--	--
...GOMPHONEMACEAE								
....GOMPHONEMA	67	1	*	0	--	--	--	--
...NAVICULACEAE								
....NAVICULA	630	8	250	2	940	12	130	3
..SURIPELLALES								
...SURIPELLACEAE								
....SURIPELLA	67	1	--	--	--	--	--	--
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....CHLOROCOCCACEAE							*	0
.....TETRAEDRON	--	--	--	--	--	--	--	--
....HYDRODICTYACEAE								
.....PEDIASTRUM	--	--	1400	10	830	11	--	--
...MICRACINTIACEAE								
....GOLENKINTIA	--	--	100	1	--	--	--	--
...OOCYSTACEAE								
....ANKISTRODESMUS	--	--	600	4	--	--	--	--
....OOCYSTIS	--	--	--	--	--	--	56	1
....SELENASTRUM	--	--	*	0	--	--	--	--
...SCENEDESMACEAE								
....ACTINASTRUM	130	2	--	--	--	--	--	--
....GLOEOACTINIUM	--	--	100	1	--	--	--	--
...SCENEDESMUS	130	2	2600#	18	680	9	--	--
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	*	0	100	1	--	--	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
.....AGMENELLUM	--	--	200	1	--	--	--	--
..NOSTOCALES								
...NOSTOCACEAE								
....ANABAENA	--	--	--	--	2000#	26	--	--
..OSCILLATORIALES								
...OSCILLATORIAEAE								
....OSCILLATORIA	--	--	400	3	--	--	210	5
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
....EUGLENACEAE								
.....TRACHELOMONAS	67	1	--	--	--	--	28	1

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	487	474	480							---	---	---
2	490	480	483							---	---	---
3	490	480	485							---	---	---
4	490	479	484							---	---	---
5	---	---	---							---	---	---
6	---	---	---							---	---	---
7	---	---	---							---	---	---
8	489	470	481							---	---	---
9	502	489	496							---	---	---
10	506	495	500							---	---	---
11	500	490	494							---	---	---
12	518	492	506							---	---	---
13	515	501	509							---	---	---
14	518	502	509							674	662	669
15	507	479	497							676	670	673
16	490	472	480							684	672	676
17	490	475	482							688	674	681
18	495	475	484							711	688	701
19	548	490	518							718	709	713
20	608	552	583							714	702	710
21	640	608	626							709	700	702
22	662	637	648							716	662	698
23	670	648	659							732	686	714
24	---	---	---							727	674	701
25	---	---	---							674	652	661
26	---	---	---							696	652	671
27	---	---	---							696	625	669
28	---	---	---							625	330	423
29	---	---	---							352	304	322
30	---	---	---							336	305	318
31	---	---	---							378	336	358
MONTH	---	---	---							---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	579	378	453	938	911	919				---	---	---
2	592	547	574	932	845	917				---	---	---
3	559	455	495	857	773	812				---	---	---
4	594	492	555	917	860	892				---	---	---
5	594	561	583	986	582	823				---	---	---
6	585	561	571	979	650	722				---	---	---
7	583	517	533	---	---	---				---	---	---
8	585	536	561	---	---	---				---	---	---
9	620	581	597	---	---	---				---	---	---
10	788	615	655	---	---	---				---	---	---
11	664	610	628	773	696	739				---	---	---
12	716	668	690	825	775	802				---	---	---
13	704	623	658	848	800	826				---	---	---
14	676	610	629	851	806	830				---	---	---
15	692	585	631	893	806	853				---	---	---
16	585	571	575	929	893	913				---	---	---
17	611	568	583	941	863	895				---	---	---
18	668	613	643	932	902	919				---	---	---
19	690	668	680	944	746	921				207	161	188
20	714	690	702	704	498	571				273	181	226
21	766	714	739	752	688	717				306	252	281
22	814	768	793	869	601	634				320	266	297
23	845	814	831	603	576	585				312	254	287
24	854	838	847	627	588	607				307	262	288
25	872	851	862	---	---	---				309	284	297
26	905	860	886	---	---	---				314	289	304
27	926	896	911	---	---	---				324	297	313
28	941	926	932	---	---	---				356	328	339
29	---	---	---	---	---	---				375	360	369
30	---	---	---	---	---	---				391	378	385
31	---	---	---	---	---	---				401	394	398
MONTH	941	378	671	---	---	---				---	---	---

SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	412	402	407	---	---	---	397	373	384	366	363	365
2	417	410	413	---	---	---	414	390	400	366	358	362
3	419	410	413	---	---	---	403	367	391	361	355	359
4	435	413	421	---	---	---	372	359	366	363	357	361
5	439	432	435	---	---	---	383	355	365	367	360	363
6	453	439	444	---	---	---	409	360	385	366	358	363
7	468	450	458	---	---	---	395	370	382	365	358	363
8	482	467	473	---	---	---	386	370	376	363	357	360
9	479	468	473	---	---	---	395	370	382	359	352	356
10	468	460	464	---	---	---	394	375	383	356	352	354
11	473	462	467	---	---	---	403	373	388	360	352	355
12	478	462	469	---	---	---	419	399	409	354	350	353
13	489	474	480	---	---	---	420	407	413	355	352	353
14	---	---	---	---	---	---	411	345	391	356	352	353
15	---	---	---	378	340	364	369	343	353	357	349	352
16	---	---	---	385	362	374	363	348	354	355	352	353
17	---	---	---	378	368	372	364	350	356	354	351	353
18	---	---	---	379	368	372	362	343	350	357	353	355
19	---	---	---	384	370	374	352	342	346	363	352	356
20	---	---	---	381	370	374	362	341	352	358	353	355
21	---	---	---	385	369	375	367	360	363	361	354	358
22	---	---	---	376	368	370	372	362	365	365	354	359
23	---	---	---	377	369	372	370	363	367	371	365	368
24	---	---	---	378	369	373	375	362	367	375	369	372
25	---	---	---	379	368	373	369	358	362	380	375	376
26	---	---	---	380	368	373	366	356	360	380	370	375
27	---	---	---	379	367	372	366	358	361	379	370	373
28	---	---	---	377	364	369	368	360	363	375	368	372
29	---	---	---	372	364	368	371	364	367	373	369	371
30	---	---	---	388	367	377	371	359	365	377	373	375
31	---	---	---	383	373	376	367	359	363	---	---	---
MONTH	---	---	---	---	---	---	420	341	372	380	349	361
YEAR	986	161	498									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

11152300 SALINAS RIVER NEAR CHULAR, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
OCT 07...	1300	23.0	55	49	7.3	--	--
JAN 13...	1230	12.0	60	38	6.2	--	--
FEB 17...	1345	18.5	220	62	37	--	--
MAR 10...	1230	17.5	265	292	209	48	62
APR 21...	1110	21.5	48	17	2.2	--	--
JUL 16...	1535	25.0	54	88	13	--	--
AUG 20...	1345	25.5	67	57	10	63	78
SEP 22...	1400	22.5	58	42	6.6	--	--

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 07...	--	--	--	84	--	--	--
JAN 13...	--	--	--	94	--	--	--
FEB 17...	--	--	--	77	--	--	--
MAR 10...	76	88	92	93	93	98	100
APR 21...	--	--	--	64	--	--	--
JUL 16...	--	--	--	87	--	--	--
AUG 20...	92	93	94	96	98	100	--
SEP 22...	--	--	--	86	--	--	--

11152500 SALINAS RIVER NEAR SPRECKELS, CA

LOCATION.--Lat 36°37'52", long 121°40'17", in Nacional Grant, Monterey County, Hydrologic Unit 18060005, on right bank on downstream side of bridge on Salinas-Monterey highway, 0.8 mi (1.3 km) upstream from El Toro Creek, 1.6 mi (2.6 km) northwest of Spreckels, and 2 mi (3 km) south of Salinas.

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

PERIOD OF RECORD.--January 1900 to August 1901, October 1929 to current year. Records for water year 1930 incomplete, yearly estimate published in WSP 1315-B. Published as "near Salinas" 1900-1901.

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

GAGE--Water-stage recorder. Datum of gage is 20.56 ft (6.267 m) National Geodetic Vertical Datum of 1929. 1900-1901, May 10 to July 29, 1940, nonrecording gages at site 0.3 mi (0.5 km) downstream at different datum. July 29, 1940, to May 22, 1969, water-stage recorder at site 0.3 mi (0.5 km) downstream at datum 0.69 ft (0.210 m) lower. May 23, 1969, to Jan. 13, 1970, nonrecording gage at same site and datum. Mar. 17, 1941, to June 30, 1961, supplementary nonrecording gages. July 1, 1961, to May 22, 1969, auxiliary water-stage recorder at site 0.3 mi (0.5 km) downstream at datum 0.69 ft (0.210 m) lower.

REMARKS.--Records fair. Flow partly regulated by Santa Margarita Lake (station 11144500) beginning in 1941, Lake Nacimiento, formerly Nacimiento Reservoir (station 11149300) beginning in February 1957, and San Antonio Reservoir (station 11150100) beginning in December 1965. Large withdrawals from ground water and small surface-water diversions from municipal use and irrigation of about 95,000 acres (384 km²) above station. Low flow represents waste water from Spreckels sugar refinery and Alisal sewage disposal plant.

AVERAGE DISCHARGE.--52 years (water years 1930-81), 416 ft³/s (11.78 m³/s), 301,400 acre-ft/yr (372 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,350 ft³/s (94.9 m³/s) Jan. 29, gage height 9.57 ft (2.917 m); minimum daily, 0.77 ft³/s (0.022 m³/s) Oct. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.1	1.0	1.5	478	64	331	2.8	1.4	1.1	1.7	1.2
2	1.3	1.3	1.1	1.5	1010	53	293	2.4	1.4	1.0	1.7	1.3
3	1.3	1.2	1.1	1.6	1450	44	280	2.8	1.6	1.1	1.5	1.5
4	1.4	1.2	1.4	1.7	1500	35	239	2.4	4.1	1.2	1.4	1.5
5	1.6	1.2	1.2	1.6	1110	30	212	2.0	3.4	1.2	1.5	1.5
6	1.6	1.1	1.2	1.7	564	246	204	2.0	1.6	1.1	1.4	1.5
7	1.7	1.1	1.1	1.6	405	252	192	1.8	1.4	1.0	1.5	1.4
8	1.7	1.1	1.1	1.6	327	262	174	2.0	1.5	1.0	1.3	1.3
9	1.3	1.1	1.2	1.7	285	296	154	2.2	1.6	1.1	1.3	1.2
10	1.1	.98	1.1	1.7	266	265	134	2.0	1.6	1.2	1.3	1.1
11	1.1	.93	1.3	2.3	255	238	114	1.6	1.5	1.1	1.1	1.1
12	1.1	1.1	1.3	4.5	217	217	97	1.1	1.6	1.1	1.1	1.0
13	1.1	1.2	1.3	6.2	352	232	84	1.2	1.7	1.0	1.2	1.0
14	1.1	1.1	1.4	7.3	331	213	77	1.4	1.6	1.3	1.0	1.1
15	1.0	1.1	1.3	8.4	257	214	67	1.6	1.5	1.5	1.2	1.3
16	.98	.98	1.3	8.5	236	195	56	1.7	1.7	1.4	1.2	1.5
17	.93	1.0	1.4	7.9	221	195	48	1.5	1.9	1.6	1.2	2.0
18	1.3	1.0	1.4	5.9	198	195	44	1.4	1.8	1.4	1.2	2.8
19	1.7	1.1	1.3	4.0	177	207	39	1.4	1.8	1.4	1.2	2.8
20	.89	1.0	1.4	3.1	163	386	28	1.4	1.7	1.2	1.3	2.9
21	.77	1.1	1.4	3.2	150	590	24	1.5	1.6	1.3	1.3	3.0
22	.80	1.1	1.3	3.9	140	1250	21	1.5	1.5	1.3	1.4	3.0
23	.79	1.2	1.4	6.6	137	1230	16	1.6	1.7	1.5	1.3	3.0
24	.80	1.1	1.4	6.3	137	1410	11	1.4	1.4	1.5	1.4	3.0
25	.94	1.1	1.4	5.0	111	1020	7.8	1.3	1.4	1.6	1.3	3.0
26	1.0	1.1	1.4	7.8	97	799	5.7	1.4	1.3	1.6	1.4	2.9
27	.92	1.1	1.4	16	86	695	4.5	1.3	1.2	1.6	1.4	3.0
28	.83	1.1	1.4	606	75	587	3.9	1.3	1.2	1.7	1.6	2.7
29	.91	1.1	1.5	1810	---	500	3.4	1.3	1.1	1.8	1.7	2.8
30	.88	1.0	1.5	1670	---	432	2.8	1.5	1.1	1.7	1.6	2.8
31	.79	---	1.5	786	---	380	---	1.3	---	1.6	1.4	---
TOTAL	34.83	32.89	40.5	4995.1	10735	12732	2967.1	52.1	49.9	41.2	42.1	60.2
MEAN	1.12	1.10	1.31	161	383	411	98.9	1.68	1.66	1.33	1.36	2.01
MAX	1.7	1.3	1.5	1810	1500	1410	331	2.8	4.1	1.8	1.7	3.0
MIN	.77	.93	1.0	1.5	75	30	2.8	1.1	1.1	1.0	1.0	1.0
AC-FT	69	65	80	9910	21290	25250	5890	103	99	82	84	119
CAL YR 1980	TOTAL	435122.08	MEAN	1189	MAX	36200	MIN	.49	AC-FT	863100		
WTR YR 1981	TOTAL	31782.92	MEAN	87	MAX	1810	MIN	.77	AC-FT	63040		

SALINAS RIVER BASIN

11152540 EL TORO CREEK NEAR SPRECKELS, CA

LOCATION.--Lat 36°35'00", long 121°42'50", in El Toro Grant, Monterey County, Hydrologic Unit 18060005, on right bank 0.3 mi (0.5 km) downstream from San Benancio Gulch, and 4.7 mi (7.6 km) southwest of Spreckels.

DRAINAGE AREA.--31.9 mi² (82.6 km²).

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

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

REMARKS.--Records good except for periods of no gage-height record, which are poor. No regulation or diversion above station except for minor stock ponds.

AVERAGE DISCHARGE.--20 years, 1.50 ft³/s (0.042 m³/s), 1,090 acre-ft/yr (1.34 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft³/s (0.57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Mar. 21	Unknown	*36	1.02	3.60	1.097
Mar. 26	1345	25	0.71	3.44	1.049

Minimum daily discharge, no flow Sept. 22, 27-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.05	.11	.12	.27	.58	1.7	.14	.12	.02	.02	.01
2	.03	.05	.11	.13	.24	.54	1.4	.16	.09	.02	.02	.01
3	.04	.06	.33	.13	.23	1.2	.73	.13	.06	.03	.02	.01
4	.05	.05	.62	.12	.27	.96	.35	.13	.05	.02	.02	.01
5	.06	.06	.16	.13	.33	.89	.25	.12	.05	.02	.01	.01
6	.06	.07	.15	.12	.42	.68	.24	.13	.04	.02	.01	.01
7	.05	.07	.14	.12	.51	.56	.23	.13	.04	.01	.01	.01
8	.05	.08	.15	.13	.80	.46	.23	.12	.05	.01	.01	.01
9	.06	.08	.14	.13	1.4	.39	.23	.13	.04	.11	.01	.01
10	.06	.08	.16	.13	.88	.35	.23	.14	.04	.03	.01	.01
11	.07	.08	.15	.12	.71	.35	.21	.12	.05	.02	.01	.01
12	.06	.08	.15	.13	.62	.36	.21	.13	.05	.02	.01	.01
13	.07	.08	.13	.12	.56	.40	.20	.11	.05	.02	.01	.01
14	.07	.08	.12	.13	.78	.36	.19	.12	.05	.02	.01	.01
15	.07	.08	.14	.12	.59	.60	.20	.11	.04	.01	.01	.01
16	.08	.07	.13	.14	.50	.86	.19	.10	.03	.02	.01	.01
17	.08	.08	.11	.14	.45	.60	.20	.10	.03	.02	.01	.01
18	.07	.07	.10	.15	.41	.68	.94	.12	.03	.02	.01	.01
19	.07	.08	.11	.15	.38	.62	.63	.11	.03	.02	.01	.01
20	.06	.08	.12	.15	.35	.52	.21	.12	.02	.02	.01	.01
21	.06	.09	.14	.34	.33	23	.28	.12	.02	.01	.01	.01
22	.07	.09	.13	.36	.31	8.6	.18	.12	.02	.02	.01	0
23	.07	.09	.12	.74	.30	4.8	.17	.10	.01	.02	.01	.01
24	.08	.09	.13	.21	.29	3.9	.17	.09	.02	.02	.01	.01
25	.08	.09	.12	.17	.79	3.8	.17	.10	.02	.02	.01	.01
26	.07	.11	.13	.25	.54	13	.16	.10	.03	.02	.01	.01
27	.07	.10	.13	3.4	.43	7.9	.15	.11	.02	.02	.01	0
28	.06	.10	.12	1.9	.48	5.7	.14	.11	.02	.02	.01	0
29	.06	.11	.14	3.0	---	4.6	.13	.11	.03	.02	.01	0
30	.06	.10	.14	3.3	---	3.9	.14	.13	.02	.02	.01	0
31	.05	---	.13	.40	---	2.3	---	.12	---	.02	.01	---
TOTAL	1.93	2.40	4.76	16.68	14.17	93.46	10.46	3.68	1.17	.69	.35	.25
MEAN	.062	.080	.15	.54	.51	3.01	.35	.12	.039	.022	.011	.008
MAX	.08	.11	.62	3.4	1.4	23	1.7	.16	.12	.11	.02	.01
MIN	.03	.05	.10	.12	.23	.35	.13	.09	.01	.01	.01	0
AC-FT	3.8	4.8	9.4	33	28	185	21	7.3	2.3	1.4	.7	.5

CAL YR 1980	TOTAL	718.44	MEAN	1.96	MAX	76	MIN	.03	AC-FT	1430
WTR YR 1981	TOTAL	150.00	MEAN	.41	MAX	23	MIN	0	AC-FT	298

11152600 GABILAN CREEK NEAR SALINAS, CA

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

DRAINAGE AREA.--36.7 mi² (95.1 km²).

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

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

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

AVERAGE DISCHARGE.--11 years, 3.20 ft³/s (0.091 m³/s), 2,320 acre-ft/yr (2.86 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge 140 ft³/s (3.96 m³/s) Jan. 30 (0115 hrs), gage height 3.08 ft (0.939 m), no other peak above base of 60 ft³/s (1.70 m³/s); minimum daily discharge, no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.25	0						
2				0	0	0						
3				0	0	0						
4				0	0	0						
5				0	0	0						
6				0	0	0						
7				0	0	0						
8				0	0	0						
9				0	0	0						
10				0	0	0						
11				0	0	0						
12				0	0	0						
13				0	0	0						
14				0	0	0						
15				0	0	0						
16				0	0	0						
17				0	0	0						
18				0	0	0						
19				0	0	.93						
20				0	0	7.0						
21				0	0	12						
22				0	0	3.1						
23				0	0	.79						
24				0	0	.05						
25				0	0	.06						
26				0	0	1.6						
27				.03	0	3.4						
28				.93	0	1.7						
29				111	---	.04						
30				125	---	0						
31		---		40	---	0	---		---			---
TOTAL	0	0	0	276.96	.25	30.67	0	0	0	0	0	0
MEAN	0	0	0	8.93	.009	.99	0	0	0	0	0	0
MAX	0	0	0	125	.25	12	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	549	.5	61	0	0	0	0	0	0
CAL YR 1980	TOTAL	1849.78	MEAN	5.05	MAX	105	MIN	0	AC-FT	3670		
WTR YR 1981	TOTAL	307.88	MEAN	.84	MAX	125	MIN	0	AC-FT	611		

TEMBLADERO SLOUGH BASIN

11152650 RECLAMATION DITCH NEAR SALINAS, CA

LOCATION.--Lat 36°42'18", long 121°42'14", in Rincon Del Zanjon Grant, Monterey County, Hydrologic Unit 18060011, on right bank at upstream side of San Jon Road bridge, and 3.4 mi (5.5 km) northwest of Salinas.

DRAINAGE AREA.--53.2 mi² (138 km²).

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.

AVERAGE DISCHARGE.--11 years, 13.8 ft³/s (0.391 m³/s), 10,000 acre-ft/yr (12.3 hr³/yr).

REMARKS.--Records fair, except for those periods of no gage -height record, Oct. 3 to Nov. 21, Dec. 22 to Jan. 8, Apr. 27 to May 13, which are poor. Flow is mostly drainage from Carr Lake area for farming.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	3.9	.68	1.9	44	3.4	4.8	3.6	3.8	5.9	4.9	4.1
2	5.9	3.0	2.5	1.1	27	2.6	7.6	2.9	6.5	6.2	3.0	5.8
3	6.9	2.2	6.5	.69	15	2.8	7.3	3.1	6.8	5.2	2.3	5.6
4	7.0	4.1	34	.61	9.3	15	6.6	2.6	7.9	5.1	3.4	5.4
5	4.6	6.2	15	.58	13	9.1	3.7	2.2	6.7	4.1	7.2	4.4
6	2.4	5.7	9.2	.56	12	3.6	3.3	3.0	14	2.8	8.6	4.2
7	4.6	4.3	4.9	.69	2.9	1.9	7.7	3.6	13	4.3	8.9	3.0
8	5.9	5.7	1.7	.69	17	1.4	7.9	4.5	13	5.1	8.7	2.4
9	6.1	5.0	2.6	.80	41	1.6	8.0	5.7	15	6.7	9.5	4.7
10	7.0	3.7	1.5	.64	17	3.2	7.3	7.1	28	7.3	8.9	5.5
11	7.0	5.1	1.6	.55	10	3.0	6.1	5.9	34	4.2	8.3	5.8
12	5.5	4.6	1.2	.39	3.3	2.9	4.8	5.2	33	2.7	5.1	5.9
13	3.1	5.3	1.3	.47	2.3	31	3.7	7.4	32	2.2	2.5	3.8
14	5.2	5.9	.77	.57	7.7	14	7.7	8.7	30	4.2	4.5	3.2
15	6.8	5.6	.46	.94	2.3	10	7.7	9.3	20	4.4	5.0	4.3
16	7.3	3.8	.75	.87	1.4	11	9.0	9.5	5.6	4.1	2.9	5.2
17	6.8	1.9	.94	.80	1.2	4.7	9.3	5.3	6.7	6.5	2.6	5.1
18	7.5	4.3	1.8	.67	1.5	7.6	28	5.4	6.0	6.1	4.1	5.2
19	5.6	5.1	.97	.64	1.6	46	26	6.2	8.3	5.2	4.6	5.4
20	3.2	3.8	.58	.72	1.4	35	8.4	5.2	9.0	3.6	5.0	3.8
21	4.8	3.6	.50	.72	1.2	47	7.4	6.5	6.8	4.1	5.1	3.0
22	6.1	4.2	6.0	8.4	.91	34	7.5	7.1	7.5	5.7	4.5	4.2
23	4.6	2.9	3.5	19	.86	15	6.5	6.0	6.9	6.0	3.3	5.5
24	5.9	1.4	2.6	11	17	6.6	6.4	6.2	9.6	4.4	2.1	5.6
25	6.6	2.7	1.7	8.2	12	14	6.0	4.5	12	3.8	4.2	5.7
26	4.1	3.8	.74	6.8	4.9	18	4.0	4.6	8.9	4.2	4.8	5.6
27	2.6	1.7	.61	48	1.9	7.2	2.3	7.3	7.2	2.8	5.2	3.5
28	4.2	.94	.68	78	1.8	4.7	3.9	8.0	6.2	4.1	4.5	2.4
29	5.3	.74	.57	81	---	1.8	4.7	7.8	5.4	5.4	3.8	4.3
30	4.9	.82	1.3	123	---	1.6	3.2	7.5	5.5	6.5	2.5	4.8
31	4.2	---	2.0	76	---	4.6	---	5.2	---	5.9	2.4	---
TOTAL	167.3	112.00	109.15	475.00	271.47	364.3	226.8	177.1	375.3	148.8	152.4	137.4
MEAN	5.40	3.73	3.52	15.3	9.70	11.8	7.56	5.71	12.5	4.80	4.92	4.58
MAX	7.5	6.2	34	123	44	47	28	9.5	34	7.3	9.5	5.9
MIN	2.4	.74	.46	.39	.86	1.4	2.3	2.2	3.8	2.2	2.1	2.4
AC-FT	332	222	216	942	538	723	450	351	744	295	302	273
CAL YR 1980	TOTAL	4374.23	MEAN	12.0	MAX	328	MIN	.20	AC-FT	8680		
WTR YR 1981	TOTAL	2717.02	MEAN	7.44	MAX	123	MIN	.39	AC-FT	5390		

11152900 CEDAR CREEK NEAR BELL STATION, CA

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

DRAINAGE AREA.--12.8 mi² (33.2 km²).

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

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

REMARKS.--Records good except those for periods of no gage-height record, Dec. 29 to Feb. 4, Feb. 17 to Mar. 18, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--20 years, 4.10 ft³/s (0.116 m³/s), 2,970 acre-ft/yr (3.66 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 29	Unknown	*1010	28.6	4.54	1.384	Mar. 21	1115	209	5.95	2.84	0.866
Mar. 5	Unknown	167	4.73	2.68	0.817						

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.01	.03	.03	2.7	.88	1.8	.17	.08	.01	.01	0
2	.01	.01	.03	.03	1.9	.82	1.8	.17	.09	.01	0	0
3	.01	.01	.12	.03	1.3	.73	1.4	.17	.07	.01	0	0
4	.01	.01	.16	.03	.96	1.7	1.3	.17	.07	.01	0	0
5	.01	.01	.07	.03	.84	1.4	1.1	.17	.06	.01	0	0
6	.01	.01	.06	.03	.71	1.1	1.1	.17	.06	.01	0	0
7	.01	.02	.06	.03	.59	.82	.96	.17	.05	.01	0	.01
8	.01	.02	.05	.04	.83	.73	.84	.17	.04	.01	0	.01
9	.01	.02	.05	.04	10	.65	.79	.17	.04	.01	0	.01
10	.01	.02	.04	.04	5.2	.50	.71	.16	.04	.01	0	.01
11	.01	.02	.04	.04	3.2	.51	.65	.15	.03	.01	0	.01
12	.01	.03	.04	.04	2.2	.52	.56	.15	.03	.01	.01	.01
13	.01	.03	.04	.03	1.7	.66	.44	.15	.04	.01	.01	.01
14	.01	.03	.04	.03	1.9	.58	.44	.16	.04	.01	.01	.01
15	.01	.03	.04	.03	1.8	.72	.44	.17	.04	.01	0	.01
16	.02	.03	.04	.03	1.4	1.3	.39	.17	.03	.01	0	.01
17	.02	.03	.04	.03	1.1	.92	.35	.15	.03	.01	0	.01
18	.02	.03	.04	.03	1.0	.82	.44	.14	.02	.01	0	.01
19	.02	.03	.04	.03	1.0	29	.42	.15	.02	.01	0	.01
20	.02	.03	.04	.03	.93	21	.44	.15	.02	0	0	.01
21	.02	.03	.04	.04	.88	78	.44	.15	.01	0	0	0
22	.02	.04	.05	.05	.84	31	.40	.15	.01	0	0	0
23	.02	.04	.04	.60	.90	13	.35	.14	.01	0	0	0
24	.02	.04	.04	.41	1.1	7.1	.35	.12	.01	0	0	0
25	.02	.03	.04	.27	.98	7.7	.32	.12	.01	0	0	0
26	.02	.03	.03	.25	.85	7.2	.29	.12	.01	.01	0	.01
27	.03	.03	.03	12	.82	4.6	.29	.11	.01	.01	0	.01
28	.02	.03	.03	9.1	.82	3.4	.29	.11	.01	.01	0	.01
29	.02	.03	.03	40	---	2.8	.22	.10	.01	0	0	.01
30	.02	.03	.03	9.8	---	2.3	.17	.09	.01	0	0	.01
31	.02	---	.03	3.7	---	1.9	---	.09	---	0	0	---
TOTAL	.49	.76	1.46	76.87	48.45	224.36	19.49	4.53	1.00	.22	.04	.19
MEAN	.016	.025	.047	2.48	1.73	7.24	.65	.15	.033	.007	.001	.006
MAX	.03	.04	.16	40	10	78	1.8	.17	.09	.01	.01	.01
MIN	.01	.01	.03	.03	.59	.50	.17	.09	.01	0	0	0
AC-FT	1.0	1.5	2.9	152	96	445	39	9.0	2.0	.4	.08	.4

CAL YR 1980 TOTAL 3033.74 MEAN 8.29 MAX 358 MIN .01 AC-FT 6020
WTR YR 1981 TOTAL 377.86 MEAN 1.04 MAX 78 MIN 0 AC-FT 749

PAJARO RIVER BASIN

11153000 PACHECO CREEK NEAR DUNNEVILLE, CA

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

DRAINAGE AREA.--146 mi² (378 km²).

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

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

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

AVERAGE DISCHARGE.--42 years, 33.0 ft³/s (0.935 m³/s), 23,910 acre-ft/yr (29.5 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,200 ft³/s (62.3 m³/s) Jan. 29, gage height, 9.77 ft (2.978 m); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	.35		0	43	.47	12	1.4	0	6.0	6.0	9.1
2	.64	.25		0	21	.28	10	1.2	0	5.7	11	9.5
3	.57	.20		0	11	.71	9.2	1.0	0	5.5	12	10
4	.54	.38		0	6.0	1.7	7.9	.87	0	5.2	13	9.8
5	.44	.14		0	3.3	7.6	6.9	.73	0	5.0	13	8.9
6	.38	0		0	1.7	5.7	6.3	.49	1.1	4.8	12	8.6
7	1.1	0		0	.54	3.9	5.7	.32	10	5.0	12	8.1
8	1.4	0		0	.71	2.7	5.0	.07	12	6.1	12	8.0
9	2.5	0		0	28	1.9	4.6	0	15	6.6	12	7.7
10	3.2	0		0	34	1.6	4.2	0	16	6.6	12	7.5
11	2.7	0		0	19	1.2	3.8	0	17	6.8	12	6.9
12	1.9	0		0	13	1.7	3.5	0	17	6.9	13	6.6
13	1.7	0		0	9.2	6.7	3.3	0	17	7.0	12	6.6
14	1.5	0		0	8.0	7.6	3.1	0	18	7.1	12	6.3
15	1.3	0		0	8.1	9.0	2.9	.06	18	7.4	12	6.1
16	1.4	0		0	6.4	14	2.8	.03	18	8.4	12	5.6
17	1.7	0		0	4.8	11	2.7	0	18	10	12	5.2
18	1.9	0		0	2.7	9.4	2.9	0	18	8.9	12	4.9
19	1.3	0		0	1.6	186	3.4	0	17	5.4	11	4.6
20	1.2	0		0	1.1	187	4.0	0	17	5.1	11	3.9
21	2.5	0		0	.78	414	5.3	0	16	5.0	11	3.2
22	2.4	0		0	.69	225	5.2	0	16	5.1	11	2.5
23	1.9	0		0	1.2	122	4.4	0	14	5.2	11	1.7
24	1.7	0		0	.64	81	3.7	0	8.4	5.2	11	.98
25	1.4	0		0	.33	58	3.3	0	6.9	5.0	10	.56
26	1.2	0		0	.49	58	2.9	0	6.5	4.9	10	.26
27	.98	0		.85	.80	41	2.4	0	6.3	4.8	9.8	.07
28	.81	0	132	.73	28	2.1	0	5.9	5.0	9.4	.07	
29	.68	0	920	---	22	1.8	0	5.8	4.9	8.7	0	
30	.74	0	206	---	17	1.7	0	5.9	5.1	8.6	0	
31	.46	---	84	---	13	---	0	---	5.3	8.9	---	
TOTAL	42.85	1.32	0	1342.85	228.81	1539.16	137.0	6.17	320.8	185.0	343.4	153.24
MEAN	1.38	.044	0	43.3	8.17	49.7	4.57	.20	10.7	5.97	11.1	5.11
MAX	3.2	.38	0	920	43	414	12	1.4	18	10	13	10
MIN	.38	0	0	0	.33	.28	1.7	0	0	4.8	6.0	0
AC-FT	85	2.6	0	2660	454	3050	272	12	636	367	681	304
CAL YR 1980	TOTAL	24997.91	MEAN	68.3	MAX	3680	MIN	0	AC-FT	49580		
WTR YR 1981	TOTAL	4300.60	MEAN	11.8	MAX	920	MIN	0	AC-FT	8530		

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

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

DRAINAGE AREA.--9.63 mi² (24.94 km²).

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

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

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

AVERAGE DISCHARGE.--10 years, 8.31 ft³/s (0.229 m³/s), 6,020 acre-ft/yr (7.42 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 602 ft³/s (17.0 m³/s) Jan. 28 (2315 hrs), gage height 5.42 ft (1.652 m), no other peak above base of 200 ft³/s (5.66 m³/s); minimum daily, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.43	.98	20	4.9	11	3.9	1.1			
2		0	.38	.98	15	4.6	9.8	3.6	1.1			
3		0	7.4	.98	11	4.4	9.1	2.5	1.0			
4		0	16	.98	9.5	5.4	8.0	2.6	.94			
5		0	2.3	.98	8.3	5.9	7.3	2.6	.83			
6		0	1.7	.98	7.3	5.3	7.2	2.5	.71			
7		.01	1.5	.98	6.6	4.9	6.7	2.4	.64			
8		.04	1.3	.98	7.7	4.7	6.2	2.4	.76			
9		.08	1.2	.98	14	4.4	6.0	2.1	.77			
10		.12	1.1	.98	8.6	4.3	5.8	1.8	.73			
11		.22	1.1	.98	7.3	4.0	5.4	1.4	.64			
12		.22	1.1	.98	6.6	4.0	5.2	.98	.61			
13		.27	1.1	.98	6.1	6.1	5.0	1.2	.67			
14		.32	1.0	.98	5.9	4.9	4.8	1.5	.65			
15		.27	.98	.95	5.4	5.0	4.6	1.6	.47			
16		.15	.98	1.1	5.1	5.2	4.3	1.6	.40			
17		.12	.98	1.1	5.0	4.8	4.0	1.6	.33			
18		.22	.98	1.1	4.6	5.1	4.3	1.6	.29			
19		.27	.98	.98	4.4	9.9	4.4	1.9	.27			
20		.27	.98	.98	4.2	18	4.2	2.2	.15			
21		.23	.98	.95	4.0	80	3.9	1.8	.08			
22		.29	.98	2.4	3.7	47	3.6	1.6	.01			
23		.37	1.0	5.4	3.8	34	3.4	1.5	0			
24		.35	1.1	3.2	4.1	27	3.3	1.4	0			
25		.32	1.1	2.4	5.0	25	3.3	1.5	0			
26		.32	1.1	2.1	4.1	23	3.2	1.5	0			
27		.32	.98	189	3.8	19	3.1	1.4	0			
28		.32	.98	162	4.0	16	2.9	1.3	0			
29		.35	.98	155	---	14	3.3	1.3	0			
30		.38	.98	53	---	13	4.1	1.2	0			
31		---	.98	31	---	12	---	1.2	---			---
TOTAL	0	5.83	54.65	626.38	195.1	425.8	157.4	57.68	13.15	0	0	0
MEAN	0	.19	1.76	20.2	6.97	13.7	5.25	1.86	.44	0	0	0
MAX	0	.38	16	189	20	80	11	3.9	1.1	0	0	0
MIN	0	0	.38	.95	3.7	4.0	2.9	.98	0	0	0	0
AC-FT	0	12	108	1240	387	845	312	114	26	0	0	0
CAL YR 1980	TOTAL	5513.96	MEAN 15.1	MAX 443	MIN 0	AC-FT 10940						
WTR YR 1981	TOTAL	1535.99	MEAN 4.21	MAX 189	MIN 0	AC-FT 3050						

PAJARO RIVER BASIN

RESERVOIRS IN PAJARO RIVER BASIN, CA

11153480 CHESBRO RESERVOIR.--Lat 37°07'00", long 121°41'34", near southwest boundary of Ojo de Agua de la Coche Grant, Santa Clara County, Hydrologic Unit 18060002, at left end of dam on Llagas Creek, and 2.5 mi (4.0 km) west of Morgan Hill. DRAINAGE AREA, 19.3 mi² (50.0 km²). PERIOD OF RECORD, December 1955 to current year. Monthly contents prior to October 1959 published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by South Santa Clara Valley Water Conservation District).

Reservoir is formed by earthfill and rockfill dam completed in 1955. Capacity, 8,090 acre-ft (9.97 hm³) between elevations 465 ft (141.7 m), elevation of outlet gates, and 525 ft (160.0 m), crest of spillway. Reservoir is used for flood control and water released down Llagas Creek for irrigation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 8,520 acre-ft (10.5 hm³) 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, 4,010 acre-ft (4.94 hm³) May 13, elevation, 507.0 ft (154.54 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 mi² (78.7 km²). PERIOD OF RECORD, December 1957 to current year. Monthly contents prior to October 1959 published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by South Santa Clara Valley Water Conservation District).

Reservoir is formed by earthfill and rockfill dam completed in 1957. Capacity, 10,000 acre-ft (12.3 hm³) between elevations 410 ft (125.0 m), hydraulic gate valves, and 487.5 ft (148.59 m), crest of spillway. Water released down Uvas Creek for irrigation; at times diverted into Llagas Creek 3.6 mi (5.8 km) below Chesbro Reservoir for ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

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

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 9,980 acre-ft (12.3 hm³) Feb. 15, elevation, 487.5 ft (148.59 m); minimum observed 2,220 acre-ft (2.73 hm³) Sept. 30, elevation 448.2 ft (136.60 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Chesbro Reservoir	Uvas Reservoir
Sept. 30, 1980..	--	7110
Oct. 31.....	--	6100
Nov. 30.....	--	5340
Dec. 31.....	--	5330
Jan. 31, 1981..	2120	9250
Feb. 29.....	2700	9980
Mar. 31.....	2700	9980
Apr. 30.....	4000	9980
May 31.....	3870	8920
June 30.....	3650	6630
July 31.....	2890	4740
Aug. 31.....	1950	3320
Sept 30.....	1310	2220

11153700 PAJARO RIVER NEAR GILROY, CA

LOCATION.--Lat 36°56'S4", long 121°30'40", on boundary between Las Animas and Llano del Tequisquita Grants, Santa Clara County, Hydrologic Unit 18060002, on right bank 45 ft (14 m) upstream from bridge on State Highway 25, 0.9 mi (1.4 km) downstream from Llagas Creek, and 4.7 mi (7.6 km) southeast of Gilroy.

DRAINAGE AREA.--399 mi² (1,033 km²).

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

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

REMARKS.--Records good. Flow regulation by Pacheco Lake, capacity, 6,150 acre-ft (7.58 hm³), Chesbro Reservoir (station 11153480) 21 mi (34 km) upstream, and San Felipe Lake. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--22 years, 55.9 ft³/s (1.583 m³/s), 40,500 acre-ft/yr (49.9 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,600 ft³/s (45.3 m³/s) Jan. 29, gage height, 8.95 ft (2.73 m); minimum daily discharge, 0.98 ft³/s (0.031 m³/s) Nov. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	1.0	2.3	4.4	152	16	35	8.4	3.4	5.9	5.1	3.8
2	3.4	.98	2.5	4.3	108	17	31	9.4	3.1	5.3	3.5	2.8
3	2.2	.99	2.7	4.3	72	15	27	9.2	3.5	4.9	3.5	2.4
4	1.9	1.0	50	4.2	48	14	25	8.9	4.2	5.1	3.0	2.8
5	2.2	1.0	7.8	4.2	33	17	23	11	4.1	7.0	4.5	2.5
6	1.5	1.1	4.0	4.2	24	13	21	12	3.6	4.2	4.7	3.0
7	1.3	1.1	3.3	4.2	19	13	20	10	3.5	3.2	5.9	2.7
8	1.0	1.2	2.9	4.1	18	13	18	9.0	3.5	4.6	7.3	1.7
9	1.6	1.2	2.7	4.1	31	13	17	8.7	3.3	6.2	5.0	1.6
10	1.5	1.4	2.9	4.0	19	12	16	8.0	2.6	5.1	2.9	1.3
11	1.4	1.4	2.9	4.0	19	12	16	7.4	1.9	5.3	3.0	2.1
12	1.2	1.4	2.9	4.0	19	12	14	5.9	2.0	4.4	3.9	1.4
13	1.1	1.3	3.1	4.0	17	12	14	5.4	1.9	4.7	3.5	2.0
14	1.2	1.5	3.2	4.0	18	11	15	6.0	1.9	6.3	3.2	1.2
15	1.2	1.5	3.4	4.0	16	11	14	5.3	1.7	5.0	4.1	1.9
16	1.2	1.5	3.5	4.1	15	17	15	4.2	1.7	4.9	5.2	2.4
17	1.2	1.6	3.5	4.1	18	12	13	4.2	1.8	5.2	5.9	2.0
18	1.1	1.7	3.7	4.1	23	12	20	4.4	3.1	5.0	5.7	1.8
19	1.2	1.7	3.6	4.3	21	30	29	4.0	4.3	5.8	3.7	1.1
20	1.2	1.7	3.7	4.4	19	114	21	4.2	4.5	6.8	3.0	1.5
21	1.1	1.7	3.8	4.1	19	206	19	4.5	4.8	8.1	3.2	1.9
22	1.1	1.8	4.0	4.8	19	311	18	4.7	4.1	5.6	2.5	2.0
23	1.1	1.9	4.5	21	15	250	17	3.6	6.9	6.3	2.9	1.3
24	1.1	2.0	4.5	11	15	200	16	3.7	6.3	6.5	1.9	1.1
25	1.2	1.9	4.6	6.1	14	154	14	2.6	6.4	6.0	1.2	1.3
26	1.2	1.9	4.8	6.1	14	123	14	2.7	6.7	7.4	2.4	2.3
27	1.1	1.9	4.9	81	13	99	12	2.6	7.3	5.8	2.3	2.5
28	1.1	2.1	5.1	210	13	7.0	12	3.0	7.9	5.4	2.9	1.9
29	1.0	2.2	4.8	915	---	62	11	3.5	5.6	3.5	3.5	1.3
30	1.1	2.2	4.7	311	---	50	10	3.5	6.0	4.5	3.9	1.3
31	1.1	---	4.5	208	---	41	---	3.7	---	4.3	4.2	---
TOTAL	45.8	45.87	164.8	1861.1	831	1889.0	547	183.7	121.6	168.3	117.5	58.9
MEAN	1.48	1.53	5.32	60.0	29.7	60.9	18.2	5.93	4.05	5.43	3.79	1.96
MAX	5.0	2.2	50	915	152	311	35	12	7.9	8.1	7.3	3.8
MIN	1.0	.98	2.3	4.0	13	7.0	10	2.6	1.7	3.2	1.2	1.1
AC-FT	91	91	327	3690	1650	3750	1080	364	241	334	233	117
CAL YR 1980	TOTAL	44212.01	MEAN	121	MAX	4840	MIN	.68	AC-FT	87690		
WTR YR 1981	TOTAL	6034.57	MEAN	16.5	MAX	915	MIN	.98	AC-FT	11970		

11154100 BODFISH CREEK NEAR GILROY, CA

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

DRAINAGE AREA.--7.40 mi² (19.17 km²).

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

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

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

AVERAGE DISCHARGE.--22 years, 3.41 ft³/s (0.097 m³/s), 2,470 acre-ft/yr (3.05 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 358 ft³/s (10.1 m³/s) Jan. 29 (0030 hrs), gage height 5.93 ft (1.807 m), no other peak above base of 150 ft³/s (4.25 m³/s); no flow many days in August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.11	.23	.32	3.9	1.5	3.9	.85	.44	.28	.05	0
2	.08	.10	.25	.30	2.9	1.4	3.2	.86	.43	.28	.04	0
3	.08	.13	1.7	.31	2.3	1.3	2.3	.83	.42	.25	.03	0
4	.08	.12	2.9	.32	1.9	2.6	2.1	.80	.38	.21	.03	0
5	.09	.11	.70	.32	1.6	3.3	2.0	.78	.34	.18	.03	0
6	.10	.12	.48	.32	1.4	2.3	1.9	.73	.32	.15	.02	.01
7	.09	.13	.41	.32	1.3	1.9	1.7	.70	.31	.13	.02	.01
8	.08	.14	.38	.32	2.2	1.7	1.6	.67	.31	.11	.01	.01
9	.08	.13	.38	.32	5.8	1.4	1.8	.67	.31	.11	.02	.01
10	.10	.13	.38	.29	3.3	1.3	1.8	.64	.30	.10	.02	.01
11	.11	.12	.33	.27	2.8	1.3	1.7	.65	.24	.10	.03	.01
12	.10	.14	.32	.27	2.3	1.3	1.5	.62	.21	.10	.03	0
13	.08	.15	.32	.27	2.0	1.6	1.4	.62	.14	.06	.04	.01
14	.09	.17	.32	.27	2.6	1.3	1.4	.63	.13	.05	.05	0
15	.09	.15	.32	.28	2.1	2.3	1.3	.62	.12	.04	.03	0
16	.10	.14	.32	.38	1.9	3.3	1.3	.58	.12	.05	.01	0
17	.10	.13	.31	.36	1.7	2.2	1.1	.54	.12	.07	.02	0
18	.10	.13	.32	.32	1.5	2.4	1.5	.78	.12	.06	.02	0
19	.10	.14	.32	.32	1.4	13	1.5	.79	.20	.05	.02	0
20	.11	.14	.32	.32	1.2	10	1.3	.68	.21	.04	.02	0
21	.10	.14	.34	.32	1.2	46	1.2	.62	.20	.03	.01	0
22	.11	.15	.42	1.1	1.1	18	1.1	.60	.19	.04	.01	0
23	.11	.17	.35	2.4	1.1	10	1.0	.57	.19	.04	.02	0
24	.12	.21	.31	1.1	1.4	7.2	.95	.56	.22	.04	.01	0
25	.13	.22	.28	.67	1.8	11	.90	.54	.13	.05	.01	0
26	.14	.22	.28	.60	1.4	10	.92	.48	.15	.04	.01	0
27	.14	.22	.27	44	1.2	7.8	.97	.47	.20	.05	0	0
28	.13	.22	.27	43	1.2	6.2	.95	.45	.21	.04	0	0
29	.12	.23	.28	59	---	5.4	.90	.46	.27	.04	0	0
30	.12	.23	.32	13	---	4.7	.86	.43	.28	.04	0	0
31	.12	---	.33	6.2	---	4.2	---	.42	---	.05	0	---
TOTAL	3.18	4.64	14.46	177.59	56.5	187.9	46.05	19.64	7.21	2.88	.61	.07
MEAN	.10	.15	.47	5.73	2.02	6.06	1.54	.63	.24	.093	.020	.002
MAX	.14	.23	2.9	59	5.8	46	3.9	.86	.44	.28	.05	.01
MIN	.08	.10	.23	.27	1.1	1.3	.86	.42	.12	.03	0	0
AC-FT	6.3	9.2	29	352	112	373	91	39	14	5.7	1.2	.1
CAL YR 1980	TOTAL	1573.08	MEAN 4.30	MAX 110	MIN .08	AC-FT 3120						
WTR YR 1981	TOTAL	520.73	MEAN 1.43	MAX 59	MIN 0	AC-FT 1030						

11154200 UVAS CREEK NEAR GILROY, CA

LOCATION.--Lat 36°59'32", long 121°34'21", in Las Animas Grant, Santa Clara County, Hydrologic Unit 18060002, on left bank 400 ft (122 m) upstream from county road bridge, 0.4 mi (0.6 km) southwest of Gilroy, and 3.9 mi (6.3 km) downstream from Bodfish Creek.

DRAINAGE AREA.--71.2 mi² (184.4 km²).

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

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

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

AVERAGE DISCHARGE.--22 years, 34.7 ft³/s (0.983 m³/s), 25,140 acre-ft/yr (31.0 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,030 ft³/s (29.2 m³/s) Mar. 21, gage height, 6.63 ft (2.021 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	30	15	43					
2			0	0	22	16	40					
3			.90	0	19	15	34					
4			6.5	0	15	17	30					
5			1.8	0	13	28	27					
6			.51	0	12	28	25					
7			.08	0	10	23	22					
8			.03	0	14	20	20					
9			0	0	21	15	18					
10			0	0	12	8.9	16					
11			0	0	11	8.2	14					
12			0	0	10	7.5	13					
13			0	0	9.9	8.3	13					
14			0	0	9.8	10	10					
15			0	0	10	8.7	9.1					
16			0	0	9.7	14	7.6					
17			0	0	13	16	5.8					
18			0	0	11	16	6.2					
19			0	0	12	51	6.6					
20			0	0	22	87	6.0					
21			0	0	27	569	5.1					
22			0	.70	14	417	5.0					
23			0	5.0	11	199	3.5					
24			0	2.0	12	128	2.2					
25			0	1.6	16	114	2.1					
26			0	1.5	23	120	1.7					
27			0	610	19	92	1.4					
28			0	570	16	74	.82					
29			0	540	---	64	.43					
30			0	150	---	56	0					
31		---	0	50	---	48	---		---			---
TOTAL	0	0	9.82	1930.80	424.4	2293.6	388.55	0	0	0	0	0
MEAN	0	0	.32	62.3	15.2	74.0	13.0	0	0	0	0	0
MAX	0	0	6.5	610	30	569	43	0	0	0	0	0
MIN	0	0	0	0	9.7	7.5	0	0	0	0	0	0
AC-FT	0	0	19	3830	842	4550	771	0	0	0	0	0
CAL YR 1980	TOTAL	27794.16	MEAN	75.9	MAX	2290	MIN	0	AC-FT	55130		
WTR YR 1981	TOTAL	5047.17	MEAN	13.8	MAX	610	MIN	0	AC-FT	10010		

11156500 SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL, CA

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

DRAINAGE AREA.--249 mi² (645 km²).

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

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

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

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

AVERAGE DISCHARGE.--42 years, 24.9 ft³/s (0.705 m³/s), 18,040 acre-ft/yr (22.2 hm³/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 127 ft³/s (3.60 m³/s) Mar. 20, gage height, 5.56 ft (1.695 m); minimum daily, 0.28 ft³/s (0.008 m³/s) on several days during September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	2.7	2.5	2.6	15	9.0	7.6	17	45	48	2.1	.31
2	35	2.7	2.5	2.5	15	8.3	10	53	45	49	1.8	.33
3	15	2.7	2.5	2.6	13	7.1	8.9	52	45	50	1.5	.33
4	9.2	2.7	3.5	2.5	9.9	18	7.4	49	45	50	1.2	.33
5	8.3	2.7	3.2	2.4	8.4	33	6.7	50	45	49	.95	.31
6	6.4	2.7	2.9	2.5	7.4	22	6.4	51	43	49	.74	.32
7	4.9	3.5	2.8	2.5	6.9	12	6.2	51	43	49	.59	.32
8	4.4	3.0	2.7	2.6	8.4	9.4	6.0	51	44	48	.54	.31
9	3.7	2.8	2.6	2.7	17	7.9	6.2	53	45	48	.52	.31
10	3.4	2.7	2.6	2.7	14	6.6	6.2	37	45	49	.52	.30
11	3.2	2.7	2.5	2.6	12	5.8	6.0	12	46	50	.50	.30
12	3.0	2.7	2.5	2.7	2.2	5.4	6.1	8.3	46	51	.50	.30
13	3.0	2.6	2.5	2.5	9.8	18	6.0	6.5	48	51	.47	.30
14	3.0	2.5	2.5	2.5	9.3	15	7.0	13	47	50	.46	.29
15	3.0	2.4	2.5	2.4	9.0	10	7.4	37	46	47	.43	.30
16	3.0	2.5	2.5	2.5	8.5	11	6.9	40	45	47	.38	.29
17	3.0	2.5	2.5	2.5	8.1	8.7	7.9	41	43	47	.37	.30
18	3.0	2.6	2.5	2.3	7.3	7.9	9.4	42	43	47	.38	.29
19	2.8	2.7	2.5	2.3	7.1	27	9.8	45	43	47	.35	.30
20	2.8	2.7	2.5	2.3	6.6	59	7.5	46	42	46	.35	.29
21	2.8	2.6	2.5	2.4	6.6	26	6.3	45	41	44	.34	.29
22	2.8	3.0	2.5	2.9	6.6	23	6.0	46	40	43	.35	.28
23	2.8	2.8	2.5	5.1	6.8	18	4.7	45	41	42	.38	.28
24	2.9	2.7	2.5	5.0	7.3	14	4.3	45	43	35	.35	.28
25	2.9	2.6	2.6	4.2	8.8	12	3.3	45	42	16	.33	.28
26	2.9	2.6	2.5	4.0	8.3	12	2.9	46	41	8.9	.33	.28
27	2.9	2.6	2.4	14	7.8	12	3.1	46	46	6.4	.34	.30
28	2.8	2.6	2.5	29	6.8	10	3.3	45	50	4.8	.33	.29
29	2.8	2.5	2.5	44	---	9.2	3.6	45	50	3.7	.33	.29
30	2.8	2.5	2.6	48	---	8.4	3.0	45	50	3.0	.33	.28
31	2.7	---	2.5	21	---	7.7	---	45	---	2.4	.34	---
TOTAL	193.2	80.6	80.4	229.8	253.9	453.4	186.1	1252.8	1338	1181.2	18.40	8.98
MEAN	6.23	2.69	2.59	7.41	9.07	14.6	6.20	40.4	44.6	38.1	.59	.30
MAX	42	3.5	3.5	48	17	59	10	53	50	51	2.1	.33
MIN	2.7	2.4	2.4	2.3	2.2	5.4	2.9	6.5	40	2.4	.33	.28
AC-FT	383	160	159	456	504	899	369	2480	2650	2340	36	18
CAL YR 1980	TOTAL	13561.00	MEAN	37.1	MAX	422	MIN	2.4	AC-FT	26900		
WTR YR 1981	TOTAL	5276.78	MEAN	14.5	MAX	59	MIN	.28	AC-FT	10470		

11157500 TRES PINOS CREEK NEAR TRES PINOS, CA

LOCATION.--Lat 36°45'13", long 121°17'03", in Santa Ana y Quien Sabe Grant, San Benito County, Hydrologic Unit 18060002, on right bank 3.5 mi (5.6 km) southeast of Tres Pinos, and 6.2 mi (10.0 km) upstream from mouth.

DRAINAGE AREA.--206 mi² (534 km²).

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

REVISED RECORDS.--WSP 1715: Drainage area.

GAGE.--Water-stage recorder. Concrete control since June 3, 1954 (control ineffective since 1955 due to gravel fill). Altitude of gage is 570 ft (174 m), from topographic map.

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

AVERAGE DISCHARGE (unadjusted).--42 years, 14.0 ft³/s (0.396 m³/s), 10,140 acre-ft/yr (12.5 hm³/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 105 ft³/s (2.97 m³/s) Mar. 13, gage height 4.64 ft (1.414 m), no peak above base of 450 ft³/s (13 m³/s); minimum daily discharge, 1.9 ft³/s (0.054 m³/s) several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	4.0	3.2	3.5	5.6	4.5	5.0	3.3	1.9	5.1	9.5	8.6
2	4.2	4.0	3.1	3.5	4.5	3.7	5.0	3.3	1.9	5.1	9.5	8.4
3	4.1	4.0	3.4	3.5	4.1	3.6	4.9	3.2	2.0	5.0	9.6	8.3
4	4.1	3.9	3.6	3.5	3.9	3.5	4.9	3.2	2.1	5.1	9.7	8.6
5	4.1	4.0	3.4	3.5	3.7	13	4.5	3.1	2.0	5.3	9.7	8.9
6	4.1	4.0	3.3	3.4	3.6	8.8	4.7	3.1	1.9	5.0	9.5	8.8
7	4.1	4.0	3.2	3.4	3.6	6.0	4.7	3.1	2.4	4.8	9.4	8.8
8	4.1	3.9	3.2	3.4	3.6	4.5	4.6	3.0	2.4	4.0	9.4	8.7
9	4.1	3.9	3.2	3.4	6.2	4.0	4.5	2.8	2.4	3.9	9.4	8.7
10	4.1	3.9	3.2	3.3	5.8	3.8	4.4	2.8	2.4	3.8	9.5	8.7
11	4.1	3.8	3.1	3.4	5.1	3.6	4.4	2.7	2.4	5.6	9.3	8.6
12	4.1	3.9	3.2	3.3	4.3	3.5	5.8	2.7	2.4	11	9.1	8.6
13	4.1	3.6	3.3	3.3	4.1	20	4.7	2.7	2.5	11	8.9	8.7
14	4.1	3.7	3.3	3.3	3.9	18	4.3	2.8	2.6	11	9.0	8.6
15	4.1	3.6	3.3	3.3	3.8	5.5	4.2	2.8	2.5	11	8.9	8.6
16	4.1	3.7	3.3	3.3	3.7	4.8	4.1	2.5	2.5	11	8.8	8.7
17	4.1	3.7	3.4	3.3	3.6	4.4	4.0	2.3	2.5	11	9.1	8.7
18	4.1	3.7	3.3	3.3	3.6	4.0	4.0	2.4	2.5	11	8.8	8.7
19	4.1	3.9	3.3	3.4	3.5	11	3.9	2.5	2.5	11	9.4	8.5
20	4.1	3.8	3.3	3.4	3.5	43	3.9	2.4	2.5	12	9.1	8.3
21	4.2	3.8	3.4	3.5	3.5	35	3.8	2.1	2.5	11	9.1	7.9
22	4.2	3.9	3.5	3.5	3.5	27	3.8	2.2	2.4	12	8.7	7.6
23	4.3	3.9	3.5	3.5	3.5	13	3.7	2.0	2.4	11	8.6	7.5
24	4.3	3.9	3.5	3.3	3.7	8.7	3.7	2.0	2.2	12	8.7	7.3
25	4.3	3.8	3.5	3.3	4.5	6.2	3.6	2.1	1.9	12	8.2	7.3
26	4.3	3.5	3.5	3.4	3.8	7.8	3.6	2.0	3.0	11	8.4	7.1
27	4.3	3.4	3.5	3.5	3.6	8.5	3.5	2.1	4.2	11	8.3	6.9
28	4.2	3.3	3.5	3.5	3.5	5.9	3.5	1.9	4.7	11	8.3	6.8
29	4.2	3.2	3.5	19	---	5.4	3.4	2.0	5.4	11	8.4	6.8
30	4.2	3.2	3.5	20	---	5.3	3.4	1.9	5.2	10	8.3	6.7
31	4.0	---	3.5	7.8	---	5.3	---	1.9	---	9.6	8.6	---
TOTAL	128.7	112.9	104.0	142.0	113.3	301.3	126.5	78.9	80.2	274.3	279.2	244.4
MEAN	4.15	3.76	3.35	4.58	4.05	9.72	4.22	2.55	2.67	8.85	9.01	8.15
MAX	4.3	4.0	3.6	20	6.2	43	5.8	3.3	5.4	12	9.7	8.9
MIN	4.0	3.2	3.1	3.3	3.5	3.5	3.4	1.9	1.9	3.8	8.2	6.7
AC-FT	255	224	206	282	225	598	251	156	159	544	554	485
CAL YR 1980	TOTAL	9435.6	MEAN	25.8	MAX	1130	MIN	3.1	AC-FT	18720		
WTR YR 1981	TOTAL	1985.7	MEAN	5.44	MAX	43	MIN	1.9	AC-FT	3940		

11158500 SAN BENITO RIVER NEAR HOLLISTER, CA

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

DRAINAGE AREA.--586 mi² (1,518 km²).

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

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

REMARKS.--Records fair. Flow regulated by Hernandez Reservoir 67 mi (108 km) upstream beginning in December 1961, capacity, 18,700 acre-ft (23.1 hm³). Several small diversions above station for irrigation.

AVERAGE DISCHARGE.--32 years, 29.9 ft³/s (0.847 m³/s), 21,660 acre-ft/yr (26.7 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 142 ft³/s (4.02 m³/s) Mar. 20, gage height, 5.91 ft (1.801 m), from rating curve extended above 180 ft³/s (5.10 m³/s); minimum daily, no flow Aug. 30 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	6.5	5.9	6.3	21	7.6	13	2.3	14	12	.20	
2	12	4.8	5.7	6.3	23	7.1	14	2.9	14	13	.18	
3	11	4.3	5.9	5.9	19	10	14	21	13	14	.16	
4	9.5	4.3	8.9	5.9	18	8.1	12	23	14	13	.16	
5	8.8	4.3	9.4	5.5	75	7.1	10	21	14	11	.16	
6	7.9	4.3	8.6	5.3	87	33	9.9	20	13	14	.14	
7	6.6	5.8	7.7	5.3	76	25	9.5	19	12	16	.13	
8	5.5	5.2	7.3	4.9	34	18	8.8	19	13	16	.11	
9	4.6	4.8	7.3	4.5	22	15	8.2	19	11	19	.11	
10	4.4	4.7	7.3	4.6	18	13	8.0	19	10	25	.11	
11	4.4	5.0	7.3	4.7	19	11	7.6	17	10	25	.11	
12	4.8	4.7	8.3	4.9	20	15	7.5	9.5	12	27	.12	
13	4.4	4.7	7.8	4.8	18	13	7.1	6.2	14	27	.10	
14	4.3	4.7	7.3	4.4	16	11	6.4	4.7	14	25	.09	
15	5.2	4.9	7.3	4.4	15	14	5.6	7.3	14	23	.09	
16	5.8	4.7	7.3	4.5	14	69	4.9	15	11	24	.08	
17	5.2	4.8	7.3	4.4	14	87	4.4	13	10	24	.08	
18	5.1	4.7	7.2	4.0	14	14	10	14	9.8	25	.08	
19	5.0	4.8	6.8	4.1	15	22	12	13	10	25	.07	
20	4.7	4.8	6.8	4.2	13	92	9.0	13	11	27	.06	
21	4.6	5.1	6.8	4.0	11	83	7.6	11	8.7	26	.05	
22	4.1	5.1	7.3	4.2	11	67	6.5	11	8.3	26	.05	
23	4.1	5.1	7.2	8.4	10	31	5.2	16	7.2	24	.05	
24	3.7	4.8	7.0	7.5	9.6	21	4.5	19	7.8	28	.04	
25	3.7	4.6	6.8	5.4	8.8	18	4.4	19	10	31	.03	
26	5.6	4.7	6.8	4.4	8.6	20	4.2	20	9.9	20	.02	
27	5.0	5.1	6.6	6.7	8.1	20	3.9	17	8.5	11	.02	
28	5.0	5.2	6.4	21	8.0	18	3.6	15	11	5.3	.01	
29	4.7	5.3	6.3	52	---	16	3.2	15	11	.64	.01	
30	4.7	5.6	6.5	92	---	15	2.6	16	10	.34	0	
31	5.1	---	6.5	44	---	14	---	15	---	.20	0	---
TOTAL	182.5	147.4	221.6	348.5	626.1	814.9	227.6	452.9	336.2	577.48	2.62	0
MEAN	5.89	4.91	7.15	11.2	22.4	26.3	7.59	14.6	11.2	18.6	.085	0
MAX	13	6.5	9.4	92	87	92	14	23	14	31	.20	0
MIN	3.7	4.3	5.7	4.0	8.0	7.1	2.6	2.3	7.2	.20	0	0
AC-FT	362	292	440	691	1240	1620	451	898	667	1150	5.2	0
CAL YR 1980 TOTAL	19204.80			MEAN 52.5	MAX 1410	MIN 2.5	AC-FT 38090					
WTR YR 1981 TOTAL	3937.80			MEAN 10.8	MAX 92	MIN 0	AC-FT 7810					

PAJARO RIVER BASIN

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

LOCATION.--Lat 36°51'07", long 121°25'44", in San Justo Grant, San Benito County, Hydrologic Unit 18060002, on right bank at downstream side of bridge on State Highway 156, and 1.6 mi (2.6 km) west of Hollister.

DRAINAGE AREA.--607 mi² (1,572 km²).

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

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

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

AVERAGE DISCHARGE.--11 years, 24.8 ft³/s (0.702 m³/s), 17,970 acre-ft/yr (22.2 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 93 ft³/s (2.63 m³/s) Mar. 20, gage height, 5.48 ft (1.670 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.31		0	.93	23	2.6	4.5	1.3	2.8	1.5		
2	.55		0	.96	16	2.1	4.4	1.3	2.2	1.5		
3	.64		0	.74	13	2.2	4.3	2.5	2.0	2.8		
4	.22		.62	.48	10	4.5	3.9	11	1.7	2.1		
5	.19		0	.31	8.9	6.4	2.8	12	2.2	1.3		
6	.19		0	.48	8.0	23	2.3	12	2.0	2.5		
7	.14		0	.76	7.3	19	2.1	11	1.5	2.2		
8	.14		0	.76	10	12	1.9	11	1.6	1.7		
9	.12		0	.67	14	7.6	1.5	11	.97	1.9		
10	.09		0	.51	14	3.2	1.4	11	.82	6.3		
11	.08		0	.59	11	2.2	1.4	11	.81	9.6		
12	.04		0	.58	8.7	1.5	1.4	5.0	.78	4.3		
13	.04		0	.62	6.4	4.2	1.4	1.7	1.1	12		
14	.03		0	.24	5.2	36	1.4	1.4	.94	11		
15	.02		0	0	3.2	16	1.4	1.4	.88	10		
16	.02		.35	0	2.8	11	1.4	4.7	.72	9.7		
17	.01		1.2	0	2.5	9.5	1.4	3.6	.59	10		
18	.01		1.3	0	2.1	7.8	9.9	3.9	.97	11		
19	.01		1.0	0	1.7	15	3.4	3.5	1.5	10		
20	0		.88	0	1.4	51	2.1	2.8	2.2	10		
21	0		.92	0	1.4	64	1.4	2.3	1.7	11		
22	0		1.2	.70	1.4	56	1.4	2.0	1.5	11		
23	0		.69	3.2	1.4	25	1.4	3.4	1.5	9.7		
24	0		.65	2.2	4.7	14	1.4	8.5	1.5	.80		
25	0		.45	1.3	1.9	11	1.4	9.0	1.5	.05		
26	0		.39	.71	1.5	13	1.3	9.2	1.5	0		
27	0		.32	8.8	1.7	12	1.3	7.7	1.5	0		
28	0		.42	11	1.4	11	1.3	3.3	1.5	0		
29	1.4		.63	34	---	6.5	1.3	3.2	1.5	0		
30	2.3		.76	65	---	5.6	1.3	3.3	1.5	0		
31	0	---	.88	43	---	4.7	---	3.2	---	0		---
TOTAL	6.55	0	12.66	178.54	184.6	459.6	67.8	178.2	43.48	153.95	0	0
MEAN	.21	0	.41	5.76	6.59	14.8	2.26	5.75	1.45	4.97	0	0
MAX	2.3	0	1.3	65	23	64	9.9	12	2.8	12	0	0
MIN	0	0	0	0	1.4	1.5	1.3	1.3	.59	0	0	0
AC-FT	13	0	25	354	366	912	134	353	86	305	0	0
CAL YR 1980	TOTAL	13674.28	MEAN	37.4	MAX	1250	MIN	0	AC-FT	27120		
WTR YR 1981	TOTAL	1285.38	MEAN	3.52	MAX	65	MIN	0	AC-FT	2550		

11158900 PESCADERO CREEK NEAR CHITTENDEN, CA

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

DRAINAGE AREA.--10.2 mi² (26.4 km²).

PERIOD OF RECORD.--October 1970 to September 1981 (discontinued).

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

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

AVERAGE DISCHARGE.--11 years, 3.04 ft³/s (0.086 m³/s), 2,200 acre-ft/yr (2.71 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 667 ft³/s (18.9 m³/s) Feb. 20, 1980, gage height, 7.11 ft (2.167 m), from rating curve extended above 150 ft³/s (4.25 m³/s) on basis of slope-area measurement at 8.15 ft (2.484 m); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 4, 1982, reached a stage of 8.15 ft (2.484 m), 846 ft³/s (24.0 m³/s) from slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft³/s (1.98 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Jan. 29	0145	*425	12.0	6.06	1.847
Mar. 21	1100	252	7.14	5.45	1.661

Minimum daily discharge, no flow July 15, 16, Aug. 7 to Sept. 30.

REVISIONS.--The peak discharges and annual maximum (*) for water years 1973-75 and 1978-80 have been revised as shown in the following table. They supersede figures published in the reports for 1973-75 and 1978-80.

Water Year	Date	Time	Discharge		Gage height	
			(ft ³ /s)	(m ³ /s)	(ft)	(m)
1973	Nov. 14, 1972	1915	*661	18.7	7.08	2.158
	Jan. 9, 1973	1715	123	3.48	4.99	1.521
	16	1300	448	12.7	6.15	1.875
	Feb. 10	0245	264	7.48	5.49	1.673
	13	0545	532	15.1	6.49	1.978
1974	Nov. 17, 1973	1830	114	3.23	4.95	1.509
	Dec. 27	0600	276	7.82	5.53	1.686
	Jan. 4, 1974	0315	193	5.47	5.24	1.597
	Mar. 1	1115	382	10.8	5.89	1.795
	3	0545	376	10.6	5.87	1.789
	28	0500	258	7.31	5.47	1.667
	30	0615	182	5.15	5.20	1.585
	Apr. 1	1645	*567	16.1	6.64	2.024
1975	Feb. 13, 1975	0915	80	2.27	4.80	1.463
	Mar. 21	2400	*100	2.83	4.89	1.490
1978	Jan. 5, 1978	1915	182	5.15	5.20	1.585
	9	1130	100	2.83	4.89	1.490
	14	2130	323	9.15	5.69	1.734
	17	0045	199	5.64	5.26	1.603
	Feb. 9	0445	*499	14.1	6.35	1.935
	12	2300	116	3.29	4.96	1.512
	Mar. 5	0645	147	4.16	5.08	1.548
1979	Feb. 21, 1979	1100	*142	4.02	5.06	1.542
1980	Jan. 14, 1980	unknown	645	18.3	7.00	2.134
	17	1400	187	5.30	5.22	1.591
	Feb. 17	2015	213	6.0 ^x	5.31	1.618
	20	2400	*667	18.9	7.11	2.167
	Mar. 6	1445	390	11.0	5.92	1.804

PAJARO RIVER BASIN
11158900 PESCADERO CREEK NEAR CHITTENDEN, CA

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.19	.30	.39	5.5	1.7	3.9	.91	.45	.49	.09	
2	.13	.16	.29	.39	4.0	1.6	3.7	.90	.42	.44	.07	
3	.12	.17	.64	.41	2.9	1.4	3.5	.85	.35	.37	.05	
4	.18	.18	1.6	.41	2.2	3.3	3.2	.83	.34	.29	.02	
5	.23	.20	.70	.39	1.8	3.0	3.0	.83	.33	.18	.02	
6	.25	.23	.47	.39	1.7	1.9	2.7	.80	.30	.13	.01	
7	.24	.24	.41	.44	1.5	1.6	2.7	.83	.28	.09	0	
8	.20	.23	.34	.49	2.3	1.5	2.5	.81	.27	.04	0	
9	.22	.22	.32	.46	9.3	1.3	2.4	.76	.24	.02	0	
10	.24	.23	.32	.46	4.4	1.2	2.3	.73	.25	.02	0	
11	.26	.24	.35	.47	3.5	1.2	2.2	.69	.24	.05	0	
12	.23	.24	.35	.45	3.0	1.2	2.1	.69	.23	.07	0	
13	.24	.25	.35	.44	2.7	1.5	2.0	.70	.21	.04	0	
14	.26	.26	.34	.44	3.4	1.3	1.9	.71	.20	.01	0	
15	.29	.28	.32	.45	2.9	1.5	1.9	.65	.18	0	0	
16	.26	.26	.32	.45	2.4	2.5	1.8	.56	.17	0	0	
17	.23	.24	.32	.44	2.2	1.7	1.8	.54	.16	.07	0	
18	.21	.24	.32	.44	2.0	1.6	2.8	.69	.21	.10	0	
19	.20	.24	.32	.44	1.9	10	3.1	.69	.19	.08	0	
20	.19	.24	.32	.46	1.8	9.0	2.7	.62	.16	.05	0	
21	.19	.25	.33	.48	1.7	61	2.4	.55	.12	.03	0	
22	.19	.29	.41	.71	1.6	20	2.2	.51	.15	.03	0	
23	.19	.30	.36	1.4	1.7	12	2.0	.50	.14	.07	0	
24	.20	.25	.35	1.0	2.2	8.5	1.9	.49	.24	.10	0	
25	.25	.25	.35	.60	1.9	13	1.8	.48	.33	.10	0	
26	.26	.26	.35	.58	1.6	13	1.7	.49	.33	.09	0	
27	.24	.25	.36	27	1.6	8.5	1.6	.48	.35	.07	0	
28	.21	.29	.35	21	1.6	6.6	1.3	.46	.32	.07	0	
29	.18	.32	.38	92	---	5.7	1.1	.45	.38	.06	0	
30	.19	.33	.39	20	---	4.8	.98	.43	.45	.07	0	
31	.19	---	.39	9.1	---	4.2	---	.42	---	.08	0	---
TOTAL	6.62	7.33	12.72	182.58	75.3	207.3	69.18	20.05	7.99	3.31	.26	0
MEAN	.21	.24	.41	5.89	2.69	6.69	2.31	.65	.27	.11	.008	0
MAX	.29	.33	1.6	92	9.3	61	3.9	.91	.45	.49	.09	0
MIN	.12	.16	.29	.39	1.5	1.2	.98	.42	.12	0	0	0
AC-FT	13	15	25	362	149	411	137	40	16	6.6	.5	0
(†)	.02	.01	1.41	5.31	1.80	3.79	1.29	.06	0	0	0	0
CAL YR 1980 TOTAL	1992.78			MEAN 5.44	MAX 191	MIN .12	AC-FT 3950					
WTR YR 1981 TOTAL	592.64			MEAN 1.62	MAX 92	MIN 0	AC-FT 1180					

† Precipitation, in inches.

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

LOCATION.--Lat 36°54'01", long 121°35'48", in Salsipuedes Grant, Santa Cruz County, Hydrologic Unit 18060002, on left bank at downstream side of bridge on State Highway 129, 0.6 mi (1.0 km) downstream from Pescadero Creek, 0.6 mi (1.0 km) southeast of Chittenden, and 2.3 mi (3.7 km) downstream from San Benito River.

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1954, published as "near Chittenden."

GAGE.--Water-stage recorder. Datum of gage is 82.28 ft (25.079 m) National Geodetic Vertical Datum of 1929. Prior to May 13, 1949, nonrecording gage on former bridge 100 ft (30 m) downstream at same datum except that water-stage recorder, also 100 ft (30 m) downstream and at same datum, was used Dec. 20, 1946, to June 11, 1947, June 21 to Sept. 23, 1947, and Dec. 19, 1947, to May 6, 1948. May 7, 1948, to Aug. 19, 1975, at downstream side of right bank pier of bridge at same datum.

REMARKS.--Records fair. Flow regulated by Hernandez Reservoir, capacity, 18,700 acre-ft (23.1 hm³), Pacheco Lake, capacity, 6,150 acre-ft (7.58 hm³), Chesbro Reservoir (station 11153480), Uvas Reservoir (station 11154020), and San Felipe Lake. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--42 years, 140 ft³/s (3.965 m³/s), 101,400 acre-ft/yr (125 hm³/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,680 ft³/s (75.9 m³/s) Jan. 29, gage height, 11.94 ft (3.639 m); minimum daily, 2.7 ft³/s (0.076 m³/s) Sept. 26, 27, and 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	2.9	6.5	8.8	343	40	89	19	13	5.0	5.9	4.1
2	4.7	2.8	7.1	8.6	218	41	79	19	9.9	4.8	5.2	4.1
3	4.5	2.8	7.6	8.5	144	42	71	19	9.0	4.4	4.0	4.1
4	3.7	2.8	30	8.4	104	42	63	18	8.5	4.4	4.5	4.1
5	3.5	2.8	33	8.3	77	47	57	18	9.7	3.6	4.8	4.1
6	3.6	3.0	8.3	8.2	60	54	54	19	9.3	4.0	4.2	4.0
7	3.3	3.1	6.0	8.1	50	48	49	17	9.6	3.7	4.2	4.0
8	3.8	3.2	5.4	8.0	38	45	43	15	8.9	4.3	4.2	4.0
9	4.5	3.3	5.3	8.0	82	41	39	14	9.2	4.4	4.2	4.0
10	4.4	3.6	5.7	8.0	66	39	37	14	11	5.4	4.2	4.0
11	4.1	3.9	5.8	8.0	47	36	32	14	11	5.3	4.2	4.0
12	3.5	3.9	5.8	8.0	42	35	30	13	9.4	5.7	4.2	4.0
13	3.2	3.7	6.0	8.0	39	35	30	13	8.1	5.9	4.2	4.0
14	3.4	4.1	6.4	7.9	42	37	32	12	7.6	4.9	4.1	4.0
15	3.4	4.3	6.6	7.9	41	38	31	14	6.3	5.8	4.1	4.0
16	3.3	4.3	6.8	7.9	39	42	30	12	6.3	5.0	4.1	4.0
17	3.4	4.4	7.0	8.1	41	45	28	10	6.0	4.4	4.1	4.0
18	3.3	4.6	7.3	8.1	41	42	36	11	5.8	5.0	4.1	4.0
19	3.5	4.8	7.1	8.5	39	58	40	11	6.3	5.0	4.1	4.0
20	3.4	4.7	7.2	8.7	39	214	26	11	6.9	4.8	4.1	4.0
21	3.0	4.7	7.4	8.3	48	837	23	11	7.1	5.0	4.1	4.0
22	3.1	5.1	7.9	8.6	46	1300	23	13	7.8	5.4	4.1	4.0
23	3.1	5.4	8.3	14	40	786	22	13	7.6	4.0	4.1	5.7
24	3.1	5.6	8.2	28	39	553	24	11	6.9	3.9	4.1	4.9
25	3.2	5.4	8.4	14	34	414	25	11	6.2	5.3	4.1	3.2
26	3.4	5.5	8.9	11	38	373	25	10	6.2	4.7	4.1	2.7
27	3.3	5.5	9.1	66	45	277	24	10	6.1	4.6	4.1	2.7
28	3.0	5.9	9.3	713	43	209	20	9.3	5.7	4.1	4.1	3.1
29	2.9	6.1	9.2	1760	---	162	20	9.4	5.3	6.3	4.1	2.9
30	3.0	6.2	9.4	926	---	130	19	9.7	4.6	5.3	4.1	2.7
31	2.9	---	8.9	547	---	105	---	9.8	---	5.9	4.1	---
TOTAL	108.4	128.4	275.9	4259.9	1925	6167	1121	410.2	235.3	150.3	131.8	116.4
MEAN	3.50	4.28	8.90	137	68.8	199	37.4	13.2	7.84	4.85	4.25	3.88
MAX	4.7	6.2	33	1760	343	1300	89	19	13	6.3	5.9	5.7
MIN	2.9	2.8	5.3	7.9	34	35	19	9.3	4.6	3.6	4.0	2.7
AC-FT	215	255	547	8450	3820	12230	2220	814	467	298	261	231
CAL YR 1980 TOTAL	90813.5			MEAN 248	MAX 8100	MIN 2.8	AC-FT 180100					
WTR YR 1981 TOTAL	15029.6			MEAN 41.2	MAX 1760	MIN 2.7	AC-FT 29810					

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.

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°C May 30, 1978; minimum recorded, 2°C Dec. 26, 1978.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,860 micromhos Nov. 25; minimum recorded, 362 micromhos Jan. 24.
 WATER TEMPERATURES: Maximum recorded, 28°C June 19, 20; minimum recorded, 3.5°C Dec. 14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML)
OCT											
06...	1300	3.7	1660	7.4	18.0	765	5.5	8.7	91	400	200
JAN											
14...	1300	7.5	1490	8.3	12.0	765	4.4	10.6	91	98	68
MAR											
11...	1200	36	1110	8.2	15.5	765	14	9.6	91	74	77
MAY											
13...	1330	12	1540	8.2	17.0	765	8.5	9.0	92	120	K57
JUL											
17...	1200	4.3	1400	8.3	18.0	765	10	9.0	94	K69	140
SEP											
23...	1300	5.6	1210	8.2	16.0	--	8.5	9.9	--	170	190

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT										
06...	540	85	89	76	180	42	3.4	4.6	450	160
JAN										
14...	590	170	110	76	120	31	2.2	2.5	430	210
MAR										
11...	440	--	83	57	85	29	1.8	2.7	320	170
MAY										
13...	560	--	95	79	140	35	2.6	2.5	430	240
JUL										
17...	470	--	79	67	140	39	2.8	3.3	390	220
SEP										
23...	330	--	54	48	150	49	4.1	5.5	360	140

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

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 06...	220	.3	24	1030	1030	1.4	10.3	1.2	1.1	.110
JAN 14...	160	.3	23	971	963	1.3	19.7	1.9	1.9	.130
MAR 11...	86	.2	20	737	701	1.0	71.6	3.9	3.8	.130
MAY 13...	140	.2	22	988	982	1.3	32.0	5.5	5.0	.140
JUL 17...	140	.1	23	869	918	1.2	10.1	5.1	5.3	.150
SEP 23...	110	.3	26	756	749	1.0	11.4	1.3	1.1	.170

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC 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)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
OCT 06...	.09	1.6	1.3	1.4	2.9	.24	.22	15	--	--
JAN 14...	.14	4.2	.96	1.1	6.2	--	.15	--	23	.1
MAR 11...	.11	1.5	1.3	1.4	5.5	.12	.07	18	--	--
MAY 13...	.13	1.5	1.2	1.3	7.1	.34	.20	--	9.6	.3
JUL 17...	.19	1.4	1.1	1.3	6.6	.29	.29	5.0	--	--
SEP 23...	.12	1.2	1.3	1.4	2.7	.34	.32	--	8.7	.4

PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
JAN 14...	1300	3	3	100	100	0	<1	10	10	1
MAY 13...	1330	3	3	200	100	0	<1	10	10	0
SEP 23...	1300	8	5	100	86	1	<1	0	10	0

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)
JAN 14...	<3	5	2	560	10	0	0	340	300	.1
MAY 13...	<3	3	2	1000	20	1	6	200	160	.1
SEP 23...	0	9	3	820	27	1	1	160	75	.1

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 RECOV- ERABLE (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)
JAN 14...	.0	9	9	1	1	0	0	20	9
MAY 13...	.0	8	5	2	2	0	0	20	20
SEP 23...	.0	7	5	2	2	1	0	20	<3

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

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE TIME	MAR 11,81 1200	MAY 13,81 1330	JUL 17,81 1200	SEP 23,81 1300
TOTAL CELLS/ML	6100	1800	2700	930
DIVERSITY: DIVISION	1.8	1.6	1.4	1.2
..CLASS	1.8	1.6	1.4	1.2
...ORDER	2.7	2.5	2.4	2.4
...FAMILY	2.8	2.6	2.6	2.6
....GENUS	3.3	2.9	2.8	3.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...ACHNANTHALES								
....ACHNANTHACEAE								
....COCCONEIS	41	1	--	-	--	-	--	-
..BACILLARIALES								
...NITZSCHIA	410	7	180	10	440#	16	220#	24
...EUPODISCALES								
....COSCINODISCAEAE								
....CYCLOTELLA	990#	16	590#	32	780#	29	150#	16
....MELOSTIRA	170	3	39	2	--	-	96	10
..FRAGILARIALES								
...FRAGILARIAEAE								
....FRAGILARIA	--	-	13	1	--	-	--	-
....SYNEDRA	--	-	13	1	--	-	--	-
..NAVICULALES								
...NAVICULACEAE								
....DIPLONEIS	--	-	--	-	--	-	27	3
....NAVICULA	290	5	52	3	160	6	27	3
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
....MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	--	-	110	12
...OOCYSTACEAE								
....ANKISTRODESMS	170	3	39	2	60	2	27	3
....CHODATELLA	--	-	--	-	40	1	--	-
...OOCYSTIS	330	5	--	-	80	3	--	-
....SELENASTRUM	580	9	13	1	--	-	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	170	3	210	11	--	-	--	-
....SCENEDESMUS	170	3	130	7	680#	25	55	6
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	1400#	23	140	8	160	6	180#	19
CHRYSTOPHYTA								
..CHRYSTOPHYCEAE								
...OCHROMONADALES								
....OCHROMONADACEAE								
....OCHROMONAS	250	4	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOMONADACEAE								
....CRYPTOMONAS	83	1	--	-	20	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
....CHROOCOCCACEAE								
....ANACYSTIS	1100#	18	370#	20	20	1	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
....EUGLENACEAE								
....EUGLENA	--	-	26	1	60	2	--	-
....LEPOCINCLIS	--	-	--	-	60	2	--	-
....TRACHELOMONAS	--	-	26	1	120	4	41	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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	----	----	----	1750	1630	1700	1760	1700	1730	1400	1310	1370
2	----	----	----	1730	1620	1690	1710	1660	1690	1370	1340	1360
3	----	----	----	1750	1620	1700	1720	1610	1680	1360	1310	1340
4	----	----	----	1740	1640	1710	1620	1480	1550	1350	1280	1330
5	----	----	----	1740	1670	1720	1450	1020	1140	1370	1280	1340
6	----	----	----	1740	1630	1700	1290	1070	1170	1360	1280	1340
7	1750	1650	1700	1750	1630	1700	1470	1300	1370	1360	1070	1240
8	1720	1550	1610	1750	1650	1700	1570	1460	1510	1080	1030	1060
9	1690	1510	1580	1770	1670	1730	1610	1520	1580	1100	1040	1070
10	1610	1470	1570	1760	1660	1720	1620	1540	1600	1160	1100	1120
11	1550	1380	1490	1760	1660	1710	1670	1560	1620	1200	1080	1120
12	1630	1430	1520	1780	1660	1730	1680	1600	1660	1150	1070	1100
13	1620	1540	1580	1830	1700	1780	1680	1610	1660	1350	1160	1240
14	1690	1560	1600	1770	1670	1740	1670	1590	1650	1550	1360	1460
15	1690	1530	1650	1790	1690	1750	1660	1570	1630	1560	1490	1530
16	1730	1610	1680	1810	1690	1760	1650	1560	1620	1550	1480	1520
17	1730	1600	1670	1800	1680	1750	1630	1550	1610	1530	1480	1510
18	1750	1580	1670	1780	1680	1750	1610	1520	1560	1530	1460	1510
19	1650	1550	1620	1800	1700	1770	1530	1480	1520	1550	1480	1510
20	1690	1550	1630	1820	1720	1790	1530	1450	1510	1520	1360	1470
21	1730	1630	1700	1840	1740	1800	1530	1480	1500	1490	1360	1430
22	1750	1540	1650	1800	1740	1780	1500	1420	1470	1490	1380	1440
23	1700	1600	1660	1820	1760	1790	1480	1400	1450	1430	1340	1380
24	1690	1580	1650	1840	1720	1800	1460	1380	1440	1350	1160	1290
25	1670	1620	1640	1860	1740	1820	1450	1360	1420	1160	1030	1110
26	1640	1530	1590	1840	1740	1810	1430	1360	1410	1160	1110	1140
27	1660	1530	1600	1850	1730	1800	1430	1350	1400	1160	810	1060
28	1700	1560	1640	1830	1720	1790	1410	1320	1390	1100	392	507
29	1700	1580	1660	1800	1750	1780	1410	1340	1380	742	362	449
30	1700	1590	1660	1790	1720	1750	1420	1320	1380	729	550	583
31	1740	1640	1700	---	---	---	1420	1320	1390	685	607	647
MONTH	1750	1380	1630	1860	1620	1750	1760	1020	1510	1560	362	1210

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	705	662	688	1030	963	979	778	750	762	1410	1370	1390
2	753	694	720	1120	1000	1040	811	770	789	1430	1360	1390
3	836	770	796	1000	951	973	837	790	814	1450	1390	1420
4	936	850	877	997	963	980	855	815	839	1500	1410	1470
5	1050	955	987	1180	997	1090	888	833	859	1490	1440	1480
6	1080	1030	1060	1020	824	908	902	873	886	1500	1430	1460
7	1110	1060	1080	915	870	896	944	901	915	1480	1420	1450
8	1210	1120	1150	939	881	912	1000	948	966	1500	1450	1480
9	1300	1240	1280	963	909	938	1020	969	997	1570	1480	1520
10	1250	1110	1170	990	933	962	1040	985	1010	1610	1550	1580
11	1340	1220	1270	1130	997	1110	1090	1040	1060	1610	1550	1580
12	1370	1310	1360	1130	1100	1110	1110	1070	1100	1610	1560	1590
13	1390	1360	1380	1150	1090	1110	1120	1050	1090	1610	1550	1600
14	1400	1290	1320	1190	1110	1150	1120	1060	1090	1550	1420	1490
15	1420	1360	1390	1100	1050	1070	1160	1110	1130	1550	1450	1490
16	1410	1260	1360	1170	1040	1090	1200	1120	1150	1570	1470	1510
17	1240	1170	1210	1180	933	1000	1240	1200	1220	1600	1530	1570
18	1260	1140	1190	1020	951	976	1310	1220	1250	1590	1500	1550
19	1210	1160	1190	1160	939	1090	1350	1280	1310	1590	1500	1550
20	1230	1160	1200	1020	712	851	1350	1300	1330	1550	1480	1520
21	1150	819	1000	716	488	609	1350	1290	1330	1570	1440	1500
22	1020	939	971	507	476	489	1380	1310	1350	1580	1500	1530
23	1050	1020	1030	509	480	493	1390	1340	1370	1620	1460	1530
24	1190	1020	1060	533	502	517	1390	1330	1350	1530	1470	1500
25	1260	1210	1230	568	537	550	1320	1260	1290	1590	1460	1520
26	1240	887	1100	613	573	584	1310	1260	1290	1630	1520	1570
27	939	881	912	638	598	618	1300	1260	1280	1630	1480	1550
28	963	933	939	661	627	644	1310	1250	1270	1660	1580	1620
29	---	---	---	694	659	672	1370	1270	1320	1720	1630	1660
30	---	---	---	727	682	702	1400	1350	1370	1690	1600	1650
31	---	---	---	754	716	735	---	---	---	1710	1600	1660
MONTH	1420	662	1100	1190	476	866	1400	750	1130	1720	1360	1530

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1590	1440	1510	1630	1420	1530	1310	1270	1290	1370	1340	1350
2	1480	1420	1460	1560	1430	1510	1300	1270	1280	1340	1300	1320
3	1510	1400	1450	1550	1480	1520	1320	1290	1300	1300	1270	1280
4	1560	1460	1510	1580	1500	1530	1300	1250	1280	1260	1210	1230
5	1560	1440	1490	1650	1530	1590	1300	1270	1280	1260	1210	1240
6	1560	1450	1500	1680	1530	1570	1310	1260	1280	1210	1190	1200
7	1560	1480	1520	1680	1580	1630	1300	1230	1260	1220	1190	1210
8	1570	1500	1530	1610	1580	1600	1300	1260	1280	1200	1160	1180
9	1510	1440	1470	1610	1430	1520	1300	1250	1270	1210	1160	1180
10	1480	1380	1420	1450	1400	1420	1270	1230	1250	1220	1170	1200
11	1430	1380	1410	1460	1360	1400	1240	1230	1240	1210	1190	1200
12	1420	1360	1390	1450	1340	1390	1250	1220	1240	1200	1160	1180
13	1420	1390	1400	1420	1310	1360	1270	1240	1260	1240	1210	1220
14	1480	1400	1430	1410	1360	1380	1250	1190	1220	1240	1190	1220
15	1510	1440	1470	1380	1290	1330	1310	1250	1280	1310	1240	1270
16	1530	1450	1480	1340	1280	1310	1360	1320	1350	1380	1320	1360
17	1560	1410	1490	1410	1340	1360	1320	1290	1300	1380	1340	1370
18	1530	1460	1500	1420	1310	1360	1280	1200	1240	1380	1310	1350
19	1530	1460	1480	1420	1350	1390	1200	1140	1160	1380	1340	1360
20	1520	1430	1460	1410	1350	1380	1160	1140	1160	1400	1360	1370
21	1550	1490	1520	1400	1300	1340	1180	1160	1170	1360	1280	1320
22	1500	1400	1450	1370	1290	1330	1210	1160	1180	1270	1200	1230
23	1430	1400	1420	1450	1320	1390	1250	1160	1200	1240	1180	1200
24	1410	1370	1390	1450	1350	1390	1320	1210	1250	1280	1230	1250
25	1400	1370	1390	1400	1310	1360	1340	1270	1300	1340	1280	1310
26	1480	1360	1390	1420	1380	1400	1350	1300	1330	1340	1250	1290
27	1490	1370	1440	1460	1400	1420	1360	1310	1340	1320	1240	1270
28	1560	1460	1500	1490	1450	1470	1360	1300	1330	1320	1250	1270
29	1580	1520	1550	1460	1420	1440	1380	1340	1360	1360	1290	1330
30	1610	1550	1580	1450	1350	1400	1360	1340	1350	1410	1320	1370
31	---	---	---	1350	1260	1300	1380	1350	1360	---	---	---
MONTH	1610	1360	1470	1680	1260	1430	1380	1140	1270	1410	1160	1270
YEAR	1860	362	1340									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	16.0	13.0	7.5	10.5	7.0	10.5	7.0	11.0	9.0	13.5	12.5
2	22.0	16.0	13.5	8.0	11.5	7.5	11.0	8.5	11.0	9.5	14.5	12.5
3	22.0	16.5	15.5	10.0	11.0	9.5	12.5	10.5	12.0	10.0	14.5	13.5
4	20.0	16.5	15.5	10.5	12.0	10.0	12.5	10.5	12.5	10.5	13.5	12.5
5	20.0	17.0	14.5	12.0	10.0	8.0	12.0	9.0	12.5	10.5	13.0	11.5
6	20.5	16.5	14.5	9.5	9.5	6.5	11.0	8.0	12.5	10.5	14.5	12.0
7	21.0	14.0	15.0	10.5	8.0	5.0	10.5	7.5	13.0	11.0	16.0	13.0
8	20.5	14.0	16.0	12.0	7.5	4.0	13.0	10.5	12.5	12.0	17.5	14.5
9	18.5	14.5	14.0	10.0	7.5	4.0	12.5	10.5	12.5	11.0	17.5	14.5
10	18.0	14.0	14.0	9.5	7.5	3.5	12.0	9.0	14.0	12.0	17.5	14.0
11	17.0	13.0	13.5	10.5	7.5	3.5	12.0	8.5	15.0	13.0	17.0	14.5
12	18.0	14.0	11.5	7.5	7.0	3.5	13.5	11.0	16.0	13.5	15.5	14.0
13	17.5	13.0	11.0	6.0	7.0	4.0	13.0	9.5	15.5	14.0	15.0	13.0
14	15.0	11.0	10.5	6.0	7.5	3.5	13.0	8.5	16.5	14.5	14.5	12.0
15	15.5	10.0	10.5	6.5	8.0	4.0	13.0	8.5	16.5	14.0	14.5	12.5
16	15.0	9.5	10.0	5.5	8.5	4.5	13.5	11.0	16.5	14.0	16.0	12.0
17	15.0	9.5	10.5	7.0	9.5	5.0	14.5	11.5	17.5	15.0	16.0	12.5
18	15.5	9.5	10.0	6.0	10.0	8.0	14.5	10.5	17.5	15.0	14.5	13.0
19	15.5	9.5	10.5	6.0	10.5	8.0	14.5	11.0	17.5	15.0	14.0	12.5
20	16.0	10.0	10.5	6.0	11.0	8.0	14.5	10.5	15.5	13.0	13.5	12.5
21	16.0	10.0	10.5	5.5	11.5	8.0	14.5	12.5	15.0	12.0	14.0	12.0
22	16.0	11.5	12.5	10.0	12.5	10.0	14.0	12.0	15.0	12.5	15.0	13.5
23	15.5	10.5	12.5	9.5	12.0	9.5	14.0	11.5	15.0	12.0	15.0	12.5
24	15.5	12.5	11.0	7.5	12.0	8.0	12.5	10.5	14.5	12.5	16.0	13.5
25	15.0	11.5	10.0	5.5	12.5	8.5	12.0	8.5	13.5	11.0	16.0	14.5
26	15.0	10.5	10.0	6.0	12.5	9.5	11.0	9.0	13.0	10.5	15.0	13.5
27	15.0	9.5	10.0	5.5	12.0	9.0	11.5	11.0	14.0	11.5	16.0	13.0
28	14.0	9.0	10.0	5.5	12.0	8.5	12.0	11.0	14.0	12.5	16.5	14.0
29	14.0	8.0	10.0	7.0	12.0	8.5	12.0	11.0	---	---	16.5	15.0
30	14.0	8.0	11.0	7.5	11.0	8.5	11.0	10.5	---	---	16.0	13.5
31	13.5	8.5	---	---	11.0	8.0	11.0	9.0	---	---	16.0	13.0
MONTH	22.0	8.0	16.0	5.5	12.5	3.5	14.5	7.0	17.5	9.0	17.5	11.5

PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	14.0	22.0	17.5	21.0	17.5	23.0	17.0	22.0	17.0	21.0	16.5
2	16.0	13.5	21.0	16.0	23.0	17.5	23.5	17.5	22.5	16.5	20.0	16.5
3	16.0	12.5	20.0	14.5	24.0	16.5	24.0	16.5	23.0	16.0	20.0	16.5
4	16.5	13.0	19.5	14.0	26.0	17.0	25.0	17.5	23.5	17.0	21.0	16.5
5	17.5	14.0	19.5	13.5	25.5	18.5	26.5	19.0	23.5	17.0	20.5	16.0
6	18.0	15.5	19.5	13.5	26.0	19.0	25.5	18.0	23.5	16.5	21.0	16.5
7	17.5	15.0	20.0	13.0	25.0	18.0	26.0	16.5	24.0	17.5	21.0	17.5
8	17.5	14.5	21.0	13.5	26.0	18.5	25.5	16.5	23.5	17.5	21.5	17.5
9	17.5	14.0	22.5	15.5	25.5	18.5	25.0	17.5	22.0	18.0	21.0	16.5
10	17.5	14.0	21.5	16.0	24.5	18.5	24.5	17.0	22.5	18.0	21.0	16.5
11	17.5	12.5	22.5	15.0	24.0	18.5	23.5	16.5	21.5	18.0	20.5	16.5
12	17.5	12.5	21.0	16.0	24.0	17.5	24.0	16.0	21.0	17.5	20.0	17.0
13	18.0	12.5	19.0	16.5	24.0	16.5	25.0	15.5	21.0	17.5	21.0	17.0
14	18.5	13.5	18.5	16.0	24.5	16.5	26.0	16.5	22.0	17.5	20.5	16.0
15	18.5	14.0	19.0	14.0	26.0	16.5	24.0	18.0	23.5	16.5	20.5	16.5
16	18.5	13.5	21.0	14.0	27.0	17.5	22.5	17.5	23.0	16.5	21.0	15.5
17	17.5	15.5	20.5	13.5	26.5	17.5	22.0	17.0	22.0	17.5	21.0	15.5
18	16.0	14.0	19.0	16.5	26.5	18.0	23.0	16.5	20.5	17.5	21.0	16.0
19	15.5	13.5	20.5	16.0	28.0	19.5	23.5	16.5	22.5	17.5	21.0	16.0
20	17.0	12.5	20.5	14.5	28.0	21.0	23.5	16.5	23.0	16.0	20.5	15.5
21	18.5	13.5	20.5	16.5	27.0	20.0	23.5	16.5	22.5	15.5	20.5	14.0
22	21.0	15.0	21.5	15.5	27.0	20.0	22.0	16.5	21.5	17.0	19.5	14.0
23	21.5	16.5	22.0	16.5	26.5	19.5	21.5	16.5	21.0	17.5	17.5	13.0
24	21.0	16.5	23.5	18.0	24.5	18.5	22.0	16.5	22.5	14.5	17.5	13.5
25	18.5	16.5	21.5	18.5	25.0	18.5	22.0	16.5	23.0	16.0	19.0	15.5
26	18.0	14.5	21.5	18.0	24.5	18.0	22.5	17.0	22.5	15.0	20.0	16.0
27	19.5	13.5	22.5	18.0	23.5	17.5	22.5	17.5	23.0	15.0	20.0	15.0
28	21.5	14.5	22.5	17.5	23.5	17.5	22.5	17.0	22.5	16.5	20.0	16.5
29	23.0	16.5	22.5	17.5	23.0	18.0	22.0	17.5	22.5	16.5	18.5	13.5
30	21.5	17.5	23.0	16.5	23.5	17.5	21.0	17.0	21.5	17.0	18.5	12.5
31	---	---	23.0	17.0	---	---	21.5	17.0	21.0	16.5	---	---
MONTH	23.0	12.5	23.5	13.0	28.0	16.5	26.5	15.5	24.0	14.5	21.5	12.5

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. SIEVE DIAM. % FINER THAN .062 MM
OCT						
06...	1300	18.0	3.7	36	.36	53
JAN						
14...	1330	12.0	7.9	18	.38	79
MAR						
11...	1100	15.0	36	10	.97	90
MAY						
13...	1445	17.0	12	63	2.0	44
JUL						
17...	1130	17.5	4.2	47	.53	44
SEP						
23...	1300	16.0	5.6	21	.32	88

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.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--27.8 mi² (72.0 km²).

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

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

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

AVERAGE DISCHARGE.--25 years, 13.9 ft³/s (0.394 m³/s), 10,070 acre-ft/yr (12.4 hm³/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 498 ft³/s (14.1 m³/s) Jan 29, gage height 6.24 ft (1.902 m), no peak above base of 600 ft³/s (17.0 m³/s); minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	18	5.7	21	.80	.49	0		
2			0	0	13	4.8	19	2.2	.14	0		
3			13	0	10	4.0	16	3.2	.12	0		
4			34	0	7.9	11	12	3.2	.15	0		
5			4.5	0	6.4	10	9.5	2.6	.09	0		
6			2.7	0	5.7	7.6	8.7	.59	.09	0		
7			4.6	0	5.1	6.2	7.8	.35	.07	0		
8			9.6	0	8.1	5.3	6.8	.49	.05	0		
9			1.9	0	13	3.7	6.3	.33	.08	0		
10			.01	0	8.0	3.4	5.5	.37	.04	0		
11			0	0	7.1	3.2	4.7	.33	.01	0		
12			0	0	5.9	3.4	4.1	.29	0	0		
13			0	0	5.2	3.9	3.7	.30	0	0		
14			0	0	7.6	3.5	3.3	.24	0	0		
15			0	0	5.4	5.3	2.6	.24	0	0		
16			0	0	4.8	8.0	2.3	.22	.02	0		
17			0	0	4.3	5.6	1.3	.20	0	0		
18			0	0	3.8	7.8	4.4	.32	0	0		
19			0	0	3.5	31	6.6	.69	0	0		
20			0	0	3.3	25	6.2	3.1	0	0		
21			0	0	3.0	215	5.3	1.9	0	0		
22			.01	4.5	2.9	110	1.3	1.1	0	0		
23			.01	28	2.8	60	.75	.25	0	0		
24			0	8.4	2.7	35	.73	.17	0	0		
25			0	3.9	7.7	64	.70	.16	0	0		
26			0	3.2	4.9	47	3.2	.16	0	0		
27			0	166	4.0	40	4.1	.18	0	0		
28			0	94	4.5	34	3.5	.57	0	0		
29			0	160	---	30	.74	.16	0	0		
30			0	48	---	26	.54	.49	0	.20		
31		---	0	27	---	22	---	.12	---	0		---
TOTAL	0	0	70.33	543.0	178.6	841.4	172.66	25.32	1.35	.20	0	0
MEAN	0	0	2.27	17.5	6.38	27.1	5.76	.82	.045	.007	0	0
MAX	0	0	34	166	18	215	21	3.2	.49	.20	0	0
MIN	0	0	0	0	2.7	3.2	.54	.12	0	0	0	0
AC-FT	0	0	139	1080	354	1670	342	50	2.7	.4	0	0
CAL YR 1980	TOTAL	8421.40	MEAN	23.0	MAX	885	MIN	0	AC-FT	16700		
WTR YR 1981	TOTAL	1832.86	MEAN	5.02	MAX	215	MIN	0	AC-FT	3640		

PAJARO RIVER BASIN

11159200 CORRALITOS CREEK AT FREEDOM, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water 1976-77, 1980 to current year.

SEDIMENT RECORDS: Water year 1976-77, 1980 to current year.

COOPERATION.--Sediment data furnished by Santa Cruz County.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
JAN								
23...	1045	--	31	754	63	--	--	--
23...	1145	--	32	949	82	48	63	77
23...	1300	--	40	778	84	--	--	--
23...	1500	--	40	882	95	--	--	--
27...	1020	--	81	518	113	--	--	--
27...	1135	--	104	1680	472	--	--	--
27...	1230	--	153	1480	611	--	--	--
27...	1330	--	234	2010	1270	--	--	--
27...	1425	--	330	3830	3410	--	--	--
27...	1545	--	411	3420	3800	--	--	--
27...	1735	--	350	1650	1560	--	--	--
27...	1810	--	314	1550	1310	--	--	--
27...	1820	--	301	1670	1360	--	--	--
28...	1215	--	70	161	30	--	--	--
FEB								
27...	1220	--	4.0	20	.22	--	--	--
MAR								
25...	1035	--	64	344	59	--	--	--
25...	1300	--	62	232	39	--	--	--
APR								
29...	1210	12.5	67	34	6.2	--	--	--

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 .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
JAN							
23...	--	--	--	67	--	--	--
23...	87	91	91	--	93	96	100
23...	--	--	--	95	--	--	--
23...	--	--	--	94	--	--	--
27...	--	--	--	76	--	--	--
27...	--	--	--	86	--	--	--
27...	--	--	--	72	--	--	--
27...	--	--	--	63	--	--	--
27...	--	--	--	65	--	--	--
27...	--	--	--	66	--	--	--
27...	--	--	--	47	--	--	--
27...	--	--	--	52	--	--	--
27...	--	--	--	56	--	--	--
28...	--	--	--	61	--	--	--
FEB							
27...	--	--	--	42	--	--	--
MAR							
25...	--	--	--	73	--	--	--
25...	--	--	--	53	--	--	--
APR							
29...	--	--	--	49	--	--	--

11159200 CORRALITOS CREEK AT FREEDOM, 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
JAN 15...	1045	12.0	219	1540	911	6	8	11

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
JAN 15...	14	18	24	33	57	94	100

11159690 APTOS CREEK NEAR APTOS, CA

LOCATION.--Lat 37°00'06", long 121°54'18", in Aptos Grant, Santa Cruz County, Hydrologic Unit 18060001, on right bank under county road bridge, 0.4 mi (0.6 km) downstream from small right-bank tributary, and 1.7 mi (2.7 km) north of Aptos.

DRAINAGE AREA.--10.2 mi² (26.4 km²).

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

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

REMARKS.--Records good except those for period of no gage-height record, Jan. 29, Mar. 21, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--10 years, 7.15 ft³/s (0.202 m³/s), 5,180 acre-ft/yr (6.39 hm³/yr).

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

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

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 29	Unknown	176 4.98	2.49 0.759
Mar. 21	Unknown	*328 9.29	3.07 0.936

Minimum daily discharge, 0.62 ft³/s (0.018 m³/s) Sept. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.97	.84	1.1	.88	5.3	3.8	6.7	2.4	.88	1.1	.97	.78
2	.97	.78	1.1	.88	4.4	3.5	6.4	2.4	1.3	1.1	.99	.78
3	.97	.78	6.4	.88	3.8	3.5	6.1	2.4	1.4	1.1	1.1	.78
4	.97	.79	10	.88	3.4	4.8	5.6	2.3	1.4	1.1	1.1	.78
5	.97	.93	4.4	.88	3.2	4.9	5.3	2.0	1.4	1.1	1.1	.78
6	.97	1.1	3.1	.88	3.0	4.3	5.2	1.8	1.4	1.0	1.1	.78
7	.95	.99	2.7	.88	2.8	4.1	4.9	1.8	1.2	.97	1.1	.78
8	.88	1.2	2.4	.88	3.1	3.8	4.9	1.7	1.2	.97	1.0	.78
9	.88	1.3	2.1	.88	4.5	3.6	4.7	1.6	1.2	.97	.97	.78
10	.91	1.2	2.0	.88	3.4	3.4	4.5	1.6	1.2	.97	.97	.78
11	.97	1.2	1.9	.88	3.2	3.4	4.2	1.5	1.2	.97	.97	.78
12	.97	1.1	1.7	.88	3.0	3.3	4.1	1.5	1.2	1.0	.97	.78
13	.97	1.1	1.5	.88	2.8	4.4	3.9	1.5	1.2	1.1	.97	.78
14	1.0	1.1	2.0	.88	3.3	3.7	4.1	1.5	1.2	1.1	.97	.78
15	1.2	1.1	1.8	.88	2.8	4.3	4.3	1.5	1.1	1.0	.97	.78
16	1.1	1.2	1.5	1.0	2.3	5.0	4.5	1.4	1.1	.97	.97	.78
17	1.1	1.2	1.5	1.2	2.0	4.3	3.2	1.4	1.1	.97	.97	.78
18	1.0	1.1	1.4	1.1	1.8	4.9	2.6	1.5	1.1	.97	.97	.78
19	.97	1.1	1.5	1.0	1.6	22	2.6	1.9	1.1	.97	.97	.78
20	.97	1.1	1.3	.97	1.5	20	2.6	1.6	1.1	.97	.97	.78
21	1.0	1.1	1.3	1.2	1.4	133	2.4	1.5	1.2	.97	.97	.78
22	1.1	1.1	1.3	3.9	1.3	30	2.4	1.4	1.2	.97	.97	.78
23	1.1	1.1	1.3	4.9	1.2	18	2.3	1.3	1.1	.97	.97	.78
24	.99	1.1	1.1	2.8	1.7	11	2.1	1.1	1.1	.97	.97	.63
25	1.0	1.1	.97	2.0	3.8	11	2.1	1.1	1.1	.97	.97	.62
26	1.1	1.1	.91	1.9	2.4	9.9	2.1	1.1	1.1	.97	.97	.67
27	1.0	1.1	.82	34	2.3	8.8	2.1	1.1	1.1	.97	.97	.69
28	1.1	1.1	.78	20	2.7	8.0	2.2	1.1	1.1	.97	.97	.69
29	1.0	1.1	.83	55	---	7.3	2.4	1.1	1.1	.97	.97	.69
30	.97	1.1	.88	12	---	7.3	2.4	1.1	1.1	.97	.90	.65
31	.97	---	.88	7.3	---	7.2	---	.90	---	.97	.78	---
TOTAL	31.02	32.21	62.47	163.47	78.0	366.5	112.9	48.10	35.18	31.07	30.51	22.58
MEAN	1.00	1.07	2.02	5.27	2.79	11.8	3.76	1.55	1.17	1.00	.98	.75
MAX	1.2	1.3	10	55	5.3	133	6.7	2.4	1.4	1.1	1.1	.78
MIN	.88	.78	.78	.88	1.2	3.3	2.1	.90	.88	.97	.78	.62
AC-FT	62	64	124	324	155	727	224	95	70	62	61	45
CAL YR 1980	TOTAL	4794.70	MEAN	13.1	MAX	464	MIN	.78	AC-FT	9510		
WTR YR 1981	TOTAL	1014.01	MEAN	2.78	MAX	133	MIN	.62	AC-FT	2010		

11160000 SOQUEL CREEK AT SOQUEL, CA

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

DRAINAGE AREA.--40.2 mi² (104.1 km²).

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 21.38 ft (6.517 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--30 years, 40.5 ft³/s (1.147 m³/s), 29,340 acre-ft/yr (36.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s (447 m³/s) Dec. 23, 1955, gage height, 22.33 ft (6.806 m), from rating curve extended above 2,900 ft³/s (82.1 m³/s) on basis of slope-area measurement of maximum flow; no flow on several days during August and September 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,160 ft³/s (32.9 m³/s) Jan. 29 (0130 hrs), gage height 6.79 ft (2.070 m), no other peak above base of 1,000 ft³/s (28.3 m³/s); minimum daily discharge, 0.5 ft³/s (0.001 m³/s) Aug. 11 to Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	1.8	3.5	5.0	42	25	24	9.2	5.1	1.1	.55	.50
2	2.3	1.6	3.7	4.6	30	21	22	8.8	5.0	1.1	.55	.50
3	2.4	1.6	74	4.1	24	17	20	8.5	4.6	1.0	.55	.50
4	2.5	1.5	112	4.2	19	30	19	8.5	4.3	1.0	.55	.50
5	2.7	1.5	13	4.2	17	29	18	8.3	4.0	1.0	.55	.50
6	2.8	1.7	6.6	4.3	15	20	17	8.1	3.7	.95	.55	.55
7	2.7	1.7	5.0	4.2	14	17	17	7.7	3.3	.95	.55	.55
8	2.6	1.8	4.1	4.3	19	15	16	7.6	3.0	.90	.55	.55
9	2.6	1.7	3.6	4.3	41	13	16	7.2	3.0	.90	.55	.55
10	2.7	1.6	3.3	4.3	25	12	15	6.9	3.0	.85	.55	.55
11	2.7	1.8	3.0	4.3	21	11	15	7.0	3.0	.85	.50	.55
12	2.7	1.7	2.9	4.1	18	11	15	6.8	2.7	.80	.50	.55
13	2.7	1.8	2.8	3.9	17	30	14	6.9	2.5	.80	.50	.55
14	2.6	1.9	2.7	3.9	21	19	14	6.8	2.4	.80	.50	.55
15	2.6	1.9	2.7	4.1	17	28	13	6.5	2.3	.75	.50	.55
16	2.5	2.0	2.7	5.0	15	38	13	6.5	2.2	.75	.50	.55
17	2.5	2.0	2.7	4.9	14	23	13	7.8	2.0	.75	.50	.55
18	2.5	1.9	2.7	4.4	13	31	13	9.3	1.9	.75	.50	.55
19	2.4	2.1	2.9	4.0	12	114	14	11	1.8	.70	.50	.55
20	2.4	2.1	3.0	4.5	12	132	14	13	1.8	.70	.50	.55
21	2.2	2.1	3.4	4.4	11	444	13	11	1.7	.70	.50	.60
22	2.2	2.5	4.6	30	11	171	12	9.5	1.6	.70	.50	.60
23	2.3	2.6	4.1	49	11	100	11	7.9	1.5	.65	.50	.60
24	2.2	2.7	3.9	22	12	65	11	6.9	1.4	.65	.50	.60
25	2.3	2.8	3.9	12	18	67	11	6.6	1.4	.65	.50	.60
26	2.4	2.7	4.0	13	14	61	10	6.5	1.3	.65	.50	.60
27	2.3	2.8	4.1	414	12	47	10	6.3	1.3	.60	.50	.60
28	2.2	2.8	4.0	274	15	38	9.8	6.0	1.2	.60	.50	.60
29	2.0	2.9	4.1	379	---	33	9.3	5.8	1.2	.60	.50	.65
30	1.8	3.3	4.5	118	---	29	9.2	5.6	1.1	.60	.50	.65
31	1.8	---	4.9	65	---	25	---	5.2	---	.60	.50	---
TOTAL	75.0	62.9	302.4	1467.0	510	1716	428.3	239.7	75.3	24.40	16.00	16.85
MEAN	2.42	2.10	9.75	47.3	18.2	55.4	14.3	7.73	2.51	.79	.52	.56
MAX	2.8	3.3	112	414	42	444	24	13	5.1	1.1	.55	.65
MIN	1.8	1.5	2.7	3.9	11	11	9.2	5.2	1.1	.60	.50	.50
AC-FT	149	125	600	2910	1010	3400	850	475	149	48	32	33
CAL YR 1980 TOTAL	18306.60			MEAN 50.0	MAX 1260	MIN 1.5	AC-FT 36310					
WTR YR 1981 TOTAL	4933.85			MEAN 13.5	MAX 444	MIN .50	AC-FT 9790					

11160000 SOQUEL CREEK AT SOQUEL, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to February 1979, 1980 to current year.

CHEMICAL ANALYSES: Water years 1952-66, 1977.

WATER TEMPERATURES: Water years 1966 to February 1979.

SEDIMENT RECORDS: Water year 1976-77, 1980 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: January 1966 to February 1979.

COOPERATION.--Sediment samples furnished by Santa Cruz County.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	
JAN										
23...	1025	12.0	42	111	13	--	--	--	--	
23...	1115	--	53	111	16	--	--	--	--	
23...	1225	--	61	146	24	67	79	89	95	
23...	1400	--	49	143	19	--	--	--	--	
23...	1430	--	49	142	19	--	--	--	--	
23...	1530	--	47	133	17	--	--	--	--	
26...	1510	9.0	11	3	.09	--	--	--	--	
27...	1015	10.0	228	789	486	--	--	--	--	
27...	1115	--	220	497	295	--	--	--	--	
27...	1250	--	284	680	521	--	--	--	--	
27...	1340	--	712	2710	5210	--	--	--	--	
27...	1415	--	822	3080	6840	--	--	--	--	
27...	1600	--	904	2740	6690	--	--	--	--	
27...	1630	--	951	2630	6750	--	29	38	48	
28...	1430	--	175	202	95	--	--	--	--	
FEB										
26...	1200	9.5	15	8	.32	--	--	--	--	
MAR										
13...	1020	10.0	36	67	6.5	--	--	--	--	
13...	1125	10.5	37	46	4.6	--	--	--	--	
13...	1215	11.0	38	37	3.8	--	--	--	--	
13...	1355	12.0	41	38	4.2	--	--	--	--	
25...	1050	11.0	73	54	11	--	--	--	--	
APR										
29...	1445	--	9.4	18	.46	--	--	--	--	
		SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
JAN										
23...	--	--	94	--	--	--	--	--	--	
23...	--	--	87	--	--	--	--	--	--	
23...	97	--	99	--	99	--	100	--	--	
23...	--	--	95	--	--	--	--	--	--	
23...	--	--	95	--	--	--	--	--	--	
23...	--	--	92	--	--	--	--	--	--	
26...	--	--	91	--	--	--	--	--	--	
27...	--	--	85	--	--	--	--	--	--	
27...	--	--	93	--	--	--	--	--	--	
27...	--	--	73	--	--	--	--	--	--	
27...	--	--	55	--	--	--	--	--	--	
27...	--	--	66	--	--	--	--	--	--	
27...	--	--	67	--	--	--	--	--	--	
27...	60	72	--	79	--	87	--	98	100	
28...	--	--	66	--	--	--	--	--	--	
FEB										
26...	--	--	58	--	--	--	--	--	--	
MAR										
13...	--	--	93	--	--	--	--	--	--	
13...	--	--	93	--	--	--	--	--	--	
13...	--	--	96	--	--	--	--	--	--	
13...	--	--	87	--	--	--	--	--	--	
25...	--	--	80	--	--	--	--	--	--	
APR										
29...	--	--	45	--	--	--	--	--	--	

11160000 SOQUEL CREEK AT SOQUEL, 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
JAN 15...	1545	12.0	370	587	586	10	13	16

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
JAN 15...	20	25	29	37	62	94	100

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 mi² (15.98 km²).

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, Feb. 28 to Apr. 9, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--13 years, 6.29 ft³/s (0.178 m³/s), 4,560 acre-ft/yr (5.62 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge 59 ft³/s (1.67 m³/s) Mar. 21, gage height 3.24 ft (0.988 m), no peak above base of 70 ft³/s (1.98 m³/s); minimum daily discharge 0.28 ft³/s (0.008 m³/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.83	.74	.42	3.5	4.0	4.5	1.5	1.1	.80	.52	.35
2	1.2	.87	.98	.42	3.1	3.3	4.2	1.5	1.1	.79	.54	.37
3	1.2	.94	2.2	.52	2.7	2.8	4.0	1.5	1.0	.77	.53	.39
4	1.3	.86	1.9	.52	2.5	4.5	3.8	1.5	1.0	.71	.54	.40
5	1.4	.82	.86	.51	2.3	3.8	3.5	1.4	.95	.67	.43	.36
6	1.4	.92	.73	.45	2.1	3.3	3.4	1.4	.93	.68	.38	.35
7	1.3	.96	.62	.42	2.1	3.0	3.2	1.3	.93	.67	.35	.35
8	1.3	1.0	.63	.45	2.2	2.8	1.9	1.3	.94	.66	.33	.35
9	1.3	.86	.57	.42	2.9	2.6	2.8	1.2	.94	.63	.34	.35
10	1.3	.87	.52	.44	2.2	2.5	2.6	1.2	1.1	.66	.38	.36
11	1.3	.87	.52	.43	2.2	2.3	2.6	1.2	1.0	.66	.40	.35
12	1.3	.87	.52	.42	2.0	2.4	2.5	1.2	1.0	.68	.40	.34
13	1.4	.85	.52	.42	2.0	7.0	2.3	1.2	1.0	.66	.43	.35
14	1.4	.74	.52	.42	2.5	4.8	2.3	1.3	1.0	.61	.43	.35
15	1.5	.77	.52	.44	1.9	5.3	2.2	1.3	.95	.57	.40	.35
16	1.5	.78	.52	.67	1.7	4.8	2.1	1.2	.89	.59	.37	.35
17	1.4	.78	.52	.52	1.7	4.2	2.1	1.2	.90	.69	.38	.35
18	1.4	.75	.52	.50	1.7	4.1	2.2	1.3	.90	.69	.40	.35
19	1.4	.70	.52	.53	1.7	7.5	2.4	1.3	.89	.63	.43	.37
20	1.4	.71	.52	.54	1.7	18	2.1	1.2	.85	.56	.40	.35
21	1.2	.71	.67	.52	1.5	55	2.0	1.2	.80	.54	.38	.35
22	1.1	.84	.80	1.1	1.5	16	1.9	1.1	.79	.55	.37	.33
23	1.1	.78	.52	1.6	1.5	11	1.8	1.1	.79	.57	.39	.28
24	1.1	.74	.52	1.5	2.0	9.0	1.8	1.1	.82	.57	.41	.31
25	1.2	.74	.52	1.1	2.2	10	1.8	1.0	.85	.56	.39	.36
26	1.1	.68	.52	1.1	2.2	8.7	1.7	1.1	.82	.57	.36	.41
27	1.0	.66	.51	23	2.0	7.6	1.7	1.0	.81	.56	.35	.35
28	1.0	.68	.45	18	2.3	6.8	1.6	1.2	.80	.55	.32	.36
29	.96	.69	.44	20	---	6.1	1.6	1.1	.81	.52	.32	.35
30	.93	.79	.44	9.0	---	5.5	1.5	1.1	.80	.52	.35	.33
31	.86	---	.45	5.0	---	4.9	---	1.1	---	.52	.35	---
TOTAL	38.55	24.06	20.79	91.38	59.9	233.6	74.1	38.3	27.46	19.41	12.37	10.57
MEAN	1.24	.80	.67	2.95	2.14	7.54	2.47	1.24	.92	.63	.40	.35
MAX	1.5	1.0	2.2	23	3.5	55	4.5	1.5	1.1	.80	.54	.41
MIN	.86	.66	.44	.42	1.5	2.3	1.5	1.0	.79	.52	.32	.28
AC-FT	76	48	41	181	119	463	147	76	54	38	25	21
CAL YR 1980	TOTAL	3560.30	MEAN 9.73	MAX 309	MIN .44	AC-FT 7060						
WTR YR 1981	TOTAL	650.49	MEAN 1.78	MAX 55	MIN .28	AC-FT 1290						

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 to current year.

SEDIMENT RECORDS: Water year 1976.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM FLOW, INST-CFS	SPECIFIC COND MICROMHO	PH FIELD (UNITS)	TEMP WATER (DEG C)	OXYGEN DISS (MG/L)	COD LOWLEVEL (MG/L)	BOD 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM CA,DISS (MG/L)	MGNSIUM MG,DISS (MG/L)
80/12/22	13 00	5J	570	8.2	9.0	10.4			240	75	12
81/03/24	11 15	10J	170	7.8	10.0	10.1	12	0.6	170	55	9
81/06/23	11 15	5J	538	8.2	17.0	7.9			250	79	12

DATE	TIME	SODIUM NA,DISS (MG/L)	PTSSIUM K,DISS (MG/L)	ALKA- LINITY (MG/L)	SULFATE S04-DISS (MG/L)	CHLORIDE CL DISS (MG/L)	ROE DISS 180 C (MG/L)	RESIDUE TOT NFLT (MG/L)	NO2+NO3 N-DISS (MG/L)	AMMONIA N DISS (MG/L)
80/12/22	13 00	23	1.4	210	58	15	330		0.00	0.00
81/03/24	11 15	19	1.3	130	55	16	271	4	0.05	0.00
81/06/23	11 15	25	1.4	220	59	16	371		0.02	0.00

DATE	TIME	AMMONIA+ ORG TOT N(MG/L)	PHOS-TOT AS P (MG/L)	PHOS-DIS ORTHO P (MG/L)	BORON B,DISS (UG/L)	ORGANIC CARBON T (MG/L)
80/12/22	13 00	0.10	0.16	0.11	200	
81/03/24	11 15	0.20	0.12	0.07	100	3.5
81/06/23	11 15	0.10	0.17	0.10	1100	

DATE	TIME	ARSENIC AS,DISS (UG/L)	BARIUM BA,DISS (UG/L)	CADMIUM CD,DISS (UG/L)	CHROMIUM CR,DISS (UG/L)	COPPER CU,DISS (UG/L)	IRON FE,DISS (UG/L)	LEAD PB,DISS (UG/L)	MANGNESE MN,DISS (UG/L)	MERCURY HG,TOTAL (UG/L)	SELENIUM SE,DISS (UG/L)
81/03/24	11 15	10	0	0	0	0	50	0	10	0.0	10

SAN LORENZO RIVER BASIN

11160060 BEAR CREEK AT BOULDER CREEK, CA

LOCATION.--Lat 37°07'40", long 122°06'57", in NW¼NW¼ sec.29, T.9 S., R.2 W., Santa Cruz County, Hydrologic Unit 18060001, on left bank on downstream side of private road bridge, in town of Boulder Creek, and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--16.0 mi² (41.4 km²).

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

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

REMARKS.--Records good except those for periods of no gage-height record, Nov. 4-25, Dec. 22 to Feb. 13, which are poor. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 2,080 (58.9 m³/s) Feb. 19, 1980, gage height, 10.36 ft (3.158 m), from rating curve extended above 600 ft³/s (49.9 m³/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 ft³/s (0.004 m³/s) Oct. 16, 17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 29	Unknown	255	7.22	3.11	0.948
Mar. 21	0830	*276	7.82	3.20	0.975

Minimum daily discharge 0.12 ft³/s (0.036 m³/s) Sept. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.53	.59	.94	1.5	11	11	11	5.1	2.3	1.2	.43	.16
2	.61	.61	.95	1.5	9.2	9.8	11	5.1	2.3	1.2	.44	.16
3	.52	.81	39	1.5	6.9	8.4	10	5.0	2.3	1.2	.44	.15
4	.44	.81	17	1.5	5.8	12	9.7	5.1	2.3	1.2	.39	.15
5	.42	.81	3.5	1.6	5.3	12	9.2	5.1	2.2	1.1	.37	.15
6	.44	.81	2.4	1.5	4.8	10	8.8	5.3	2.1	.98	.33	.15
7	.49	.81	2.0	1.5	4.4	9.3	8.6	5.1	2.1	1.0	.30	.16
8	.50	.81	1.8	1.5	4.9	8.5	8.3	5.1	2.1	1.0	.25	.17
9	.48	.81	1.6	1.5	13	8.1	8.0	5.0	2.1	1.0	.22	.17
10	.40	.81	1.6	1.5	8.0	7.7	7.9	4.9	2.1	.94	.22	.15
11	.46	.81	1.5	1.4	9.0	7.3	7.6	4.9	2.1	.82	.21	.14
12	.54	.81	1.5	1.4	7.0	6.9	7.6	4.9	2.1	.89	.21	.14
13	.59	.84	1.5	1.4	5.2	20	7.1	4.5	2.1	.89	.20	.14
14	.59	.86	1.4	1.4	8.4	13	7.0	4.8	2.1	.87	.21	.14
15	.59	.86	1.4	1.4	7.2	13	6.9	2.8	2.3	.85	.22	.14
16	.59	.86	1.3	1.8	6.6	12	6.7	2.9	1.3	.81	.21	.14
17	.61	.86	1.3	1.7	6.5	11	6.5	2.9	1.2	.76	.19	.14
18	.70	.82	1.3	1.6	6.1	11	6.5	2.9	1.2	.77	.18	.14
19	.56	.81	1.3	1.6	6.0	18	6.5	3.1	1.2	.79	.19	.14
20	.50	.82	1.3	1.7	5.8	38	6.5	3.0	1.3	.74	.20	.14
21	.49	.85	1.4	1.6	5.4	149	6.3	2.9	1.2	.73	.21	.14
22	.49	.84	1.7	15	5.3	43	6.2	2.8	1.1	.59	.22	.13
23	.49	1.0	1.7	12	5.2	26	5.9	2.8	1.1	.56	.22	.12
24	.49	.94	1.6	7.2	6.0	20	5.8	2.8	1.1	.59	.22	.12
25	.52	.94	1.6	3.8	6.9	22	5.8	2.6	1.1	.58	.17	.13
26	.63	.94	1.6	4.2	7.6	19	5.8	2.6	1.1	.45	.17	.17
27	.64	.94	1.5	140	6.6	17	5.6	2.6	1.1	.48	.17	.18
28	.59	.94	1.5	75	8.5	15	5.5	2.5	1.1	.49	.17	.18
29	.59	.94	1.5	82	---	14	5.2	2.5	1.2	.48	.15	.18
30	.59	.94	1.5	34	---	13	5.1	2.5	1.1	.41	.15	.18
31	.59	---	1.5	16	---	12	---	2.4	---	.40	.15	---
TOTAL	16.67	25.30	101.69	421.3	192.6	597.0	218.6	116.5	50.0	24.77	7.41	4.50
MEAN	.54	.84	3.28	13.6	6.88	19.3	7.29	3.76	1.67	.80	.24	.15
MAX	.70	1.0	39	140	13	149	11	5.3	2.3	1.2	.44	.18
MIN	.40	.59	.94	1.4	4.4	6.9	5.1	2.4	1.1	.40	.15	.12
AC-FT	33	50	202	836	382	1180	434	231	99	49	15	8.9
CAL YR 1980	TOTAL	6737.68	MEAN	18.4	MAX	530	MIN	.40	AC-FT	13360		
WTR YR 1981	TOTAL	1776.34	MEAN	4.87	MAX	149	MIN	.12	AC-FT	3520		

11160070 BOULDER CREEK AT BOULDER CREEK, CA

LOCATION.--Lat 37°07'36", long 122°07'18", in NW¼NE¼ sec.30, T.9 S., R.2 W., Santa Cruz County, Hydrologic Unit 18060001, on right bank under bridge on State Highway 9 in town of Boulder Creek, 750 ft (229 m) upstream from mouth.

DRAINAGE AREA.--11.3 mi² (29.3 km²).

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

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

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

AVERAGE DISCHARGE.--5 years, 16.0 ft³/s (0.453 m³/s), 11,590 acre-ft/yr (14.3 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	1130	*607 17.2	3.80 1.158
Mar. 21	0830	540 15.5	3.57 1.088

Minimum daily discharge, 0.61 ft³/s (0.017 m³/s) Sept. 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.99	8.0	1.6	17	16	17	4.3	2.1	1.2	1.2	.76
2	.81	.99	17	1.6	14	13	17	4.1	2.1	1.3	1.1	.90
3	1.0	.99	48	1.6	11	11	16	3.9	2.1	1.2	1.1	.93
4	.93	.98	20	1.6	8.7	21	14	3.6	2.0	1.2	1.3	.83
5	.84	.98	5.2	1.6	8.0	17	13	3.6	1.8	1.1	1.1	.75
6	.86	1.2	2.9	1.5	7.5	13	12	3.4	1.8	1.0	.98	.68
7	.94	1.2	2.4	1.5	7.4	11	11	3.4	1.8	1.0	.84	.68
8	1.0	1.2	2.2	1.5	11	10	11	3.4	1.8	1.0	.84	.73
9	1.0	1.1	2.1	1.5	19	9.4	10	3.4	1.8	1.0	.84	.80
10	.99	1.1	2.0	1.5	10	8.4	9.4	3.4	1.8	1.0	.84	.81
11	.99	.99	1.9	1.5	10	7.9	9.0	3.5	1.8	1.3	.84	.74
12	.98	.99	1.8	1.5	9.0	8.1	8.6	3.2	1.8	1.1	.84	.68
13	.99	1.1	1.8	1.4	8.1	47	8.2	3.2	1.8	1.1	.84	.63
14	1.1	1.2	1.7	1.4	12	23	7.7	3.2	1.8	1.1	.84	.61
15	1.2	1.2	1.7	1.5	9.2	25	7.3	3.2	1.6	1.1	.84	.61
16	1.2	1.1	1.7	2.6	8.5	22	7.0	3.2	1.6	1.1	.84	.74
17	1.2	1.1	1.6	1.8	7.6	18	6.9	3.1	1.5	1.1	.84	.81
18	1.1	1.1	1.6	1.6	7.4	20	6.7	3.1	1.4	1.1	.93	.76
19	1.1	1.1	1.6	1.9	7.4	34	7.2	3.4	1.4	1.1	1.0	.77
20	1.1	1.1	1.7	2.1	7.0	81	6.6	3.3	1.3	1.1	1.0	.68
21	1.1	1.1	1.9	1.8	6.2	242	6.3	3.1	1.2	1.1	.91	.68
22	1.1	1.2	2.3	28	5.9	64	6.1	3.1	1.1	1.1	.83	.80
23	1.1	1.2	2.0	18	5.8	44	5.8	2.9	1.0	1.1	.69	.84
24	1.2	1.2	1.8	7.9	8.6	34	5.5	2.9	1.0	1.1	.68	.88
25	1.2	1.4	1.7	5.0	8.8	45	5.3	2.7	1.0	1.1	.68	1.1
26	1.2	1.6	1.7	6.8	8.1	38	5.2	2.7	1.1	1.1	.82	1.2
27	1.2	1.8	1.6	217	7.1	32	4.9	2.7	1.1	1.2	.91	1.3
28	1.2	2.6	1.6	129	12	26	5.1	2.5	1.1	1.2	.80	.85
29	1.2	3.4	1.6	123	---	23	5.4	2.3	1.1	1.2	.68	.92
30	1.1	5.0	1.6	49	---	20	4.7	2.1	1.1	1.2	.68	.79
31	1.0	---	1.6	26	---	18	---	2.1	---	1.2	.68	---
TOTAL	32.93	42.21	146.3	644.3	262.3	1001.8	259.9	98.0	45.9	34.8	27.31	24.26
MEAN	1.06	1.41	4.72	20.8	9.37	32.3	8.66	3.16	1.53	1.12	.88	.81
MAX	1.2	5.0	48	217	19	242	17	4.3	2.1	1.3	1.3	1.3
MIN	.81	.98	1.6	1.4	5.8	7.9	4.7	2.1	1.0	1.0	.68	.61
AC-FT	65	84	290	1280	520	1990	516	194	91	69	54	48

CAL YR 1980	TOTAL	9881.75	MEAN	27.0	MAX	840	MIN	.81	AC-FT	19600
WTR YR 1981	TOTAL	2620.01	MEAN	7.18	MAX	242	MIN	.61	AC-FT	5200

11160300 ZAYANTE CREEK AT ZAYANTE, CA

LOCATION.--Lat 37°05'10", long 122°02'45", in SE¼ sec.2, T.10 S., R.2 W., Santa Cruz County, Hydrologic Unit 18060001, on left bank at downstream side of bridge on Zayante Road in town of Zayante, 0.4 mi (0.6 km) upstream from Lompico Creek, 2.0 mi (3.2 km) east of Ben Lomond, and 3.2 mi (5.1 km) upstream from mouth.

DRAINAGE AREA.--11.1 mi² (28.7 km²).

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

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

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

AVERAGE DISCHARGE.--24 years, 10.8 ft³/s (0.306 m³/s), 7,820 acre-ft/yr (9.64 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 293 ft³/s (8.30 m³/s) Jan. 28, gage height 3.39 ft (1.033 m), no peak above base of 450 ft³/s (12.7 m³/s); minimum daily discharge, 0.14 ft³/s (0.004 m³/s) Sept. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	.70	.82	.97	8.5	5.7	7.2	2.7	1.4	.73	.40	.29
2	.83	.70	.79	.99	7.3	4.9	6.6	2.5	1.4	1.0	.33	.29
3	.83	.69	31	1.1	6.1	4.4	6.1	2.4	1.3	1.3	.33	.27
4	.83	.70	24	1.1	5.2	7.6	5.8	2.3	1.3	1.6	.33	.27
5	.95	.70	3.1	1.1	4.3	6.5	5.5	2.3	1.2	2.0	.33	.27
6	.92	.72	1.9	1.0	3.7	5.4	5.4	2.2	1.2	2.3	.29	.28
7	.89	.73	1.4	.90	3.2	4.9	5.2	2.2	1.1	2.2	.27	.29
8	.86	.74	1.3	.96	4.5	4.7	4.8	2.1	1.1	1.2	.26	.30
9	.86	.73	1.2	.90	10	4.4	4.6	2.1	1.1	.40	.25	.30
10	.86	.76	1.2	.91	6.3	4.3	4.5	2.0	1.1	.41	.30	.28
11	.88	.76	1.2	.94	7.0	4.1	4.3	2.0	1.1	.42	.32	.28
12	1.0	.76	1.2	.90	5.5	4.1	4.1	1.9	1.0	.43	.38	.27
13	.96	.76	1.1	.90	4.0	12	4.0	1.9	1.0	.42	.36	.26
14	.92	.77	1.1	.90	5.9	6.9	3.7	1.9	1.0	.39	.38	.28
15	.92	.77	1.1	1.1	4.8	8.8	3.6	1.9	.93	.34	.39	.28
16	.85	.72	1.1	1.7	4.3	8.8	3.5	1.8	.88	.40	.37	.28
17	.86	.70	1.1	1.2	3.9	7.0	3.4	1.8	.81	.44	.33	.28
18	.82	.70	1.1	1.1	3.7	8.7	3.5	2.1	.76	.45	.33	.28
19	.85	.70	1.1	1.2	3.5	21	3.6	2.4	.75	.44	.35	.28
20	.82	.72	1.1	1.1	3.4	35	3.3	2.2	.72	.40	.36	.29
21	.81	.76	1.2	1.1	3.2	130	3.2	2.0	.68	.37	.39	.28
22	.81	.83	1.4	11	3.1	35	3.2	1.9	.67	.35	.40	.25
23	.80	.90	1.1	11	3.0	21	3.1	1.8	.57	.39	.40	.14
24	.79	.86	1.1	4.6	3.1	15	3.0	1.7	.64	.41	.38	.14
25	.84	.76	1.1	3.1	3.4	15	2.9	1.7	.73	.44	.31	.19
26	.87	.76	1.1	3.7	3.9	13	2.8	1.7	.72	.43	.31	.33
27	.82	.76	1.1	116	3.3	11	2.8	1.6	.68	.41	.31	.29
28	.77	.76	1.0	79	4.6	9.7	2.8	1.6	.72	.41	.31	.23
29	.70	.76	.94	73	---	9.0	2.7	1.5	.70	.37	.27	.20
30	.74	.76	.93	20	---	8.2	2.7	1.5	.70	.40	.27	.16
31	.70	---	.94	12	---	7.6	---	1.4	---	.41	.27	---
TOTAL	26.19	22.44	89.82	355.47	132.7	443.7	121.9	61.1	27.96	21.66	10.28	7.83
MEAN	.84	.75	2.90	11.5	4.74	14.3	4.06	1.97	.93	.70	.33	.26
MAX	1.0	.90	31	116	10	130	7.2	2.7	1.4	2.3	.40	.33
MIN	.70	.69	.79	.90	3.0	4.1	2.7	1.4	.57	.34	.25	.14
AC-FT	52	45	178	705	263	880	242	121	55	43	20	16
CAL YR 1980	TOTAL	5641.37	MEAN	15.4	MAX	620	MIN	.69	AC-FT	11190		
WTR YR 1981	TOTAL	1321.05	MEAN	3.62	MAX	130	MIN	.14	AC-FT	2620		

11160500 SAN LORENZO RIVER AT BIG TREES, CA

LOCATION.--Lat 37°02'40", long 122°04'17", in Zayante Grant, Santa Cruz County, Hydrologic Unit 18060001, on right bank 20 ft (6 m) upstream from bridge on Henry Cowell State Park Road, 200 ft (61 m) upstream from Shingle Mill Creek, 0.3 mi (0.5 km) downstream from Zayante Creek, 0.9 mi (1.4 km) northwest of Big Trees station on Southern Pacific Railroad, and 5.3 mi (8.5 km) northwest of Santa Cruz.

DRAINAGE AREA.--106 mi² (275 km²).

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 227.00 ft (69.190 m) Santa Cruz County datum. Prior to Oct. 6, 1972, at site 1.3 mi (2.1 km) downstream at different datum.

REMARKS.--Records good. Flow regulated by Loch Lomond Reservoir since 1961, capacity, 8,400 acre-ft (10.4 hm³). Many small diversions above station for domestic supply.

AVERAGE DISCHARGE.--45 years, 131 ft³/s (3.710 m³/s), 94,910 acre-ft/yr (117 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft³/s (51 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
Jan. 27	1545	2170	61.5	8.46	2.579
Mar. 21	1000	*2410	68.3	8.86	2.701

Minimum daily discharge, 9 ft³/s (0.25 m³/s) Aug. 26.

DISCHARGE* IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	18	22	21	117	96	119	42	24	15	13	9.8
2	19	19	22	21	88	80	111	40	23	16	12	9.7
3	17	20	276	21	67	65	108	40	22	15	12	10
4	17	20	217	22	57	108	99	38	21	14	12	9.7
5	18	19	45	22	53	97	96	38	20	15	12	11
6	18	19	30	21	48	78	88	37	18	13	12	12
7	17	19	26	21	42	71	83	37	18	13	11	12
8	17	19	25	21	62	66	79	36	19	12	11	14
9	17	19	24	21	136	61	76	35	18	13	12	11
10	17	19	24	21	83	58	73	34	18	12	12	11
11	17	19	24	21	95	56	68	33	18	13	12	11
12	20	19	26	20	71	55	66	32	17	13	12	12
13	19	20	24	20	57	170	66	33	18	12	12	12
14	18	20	22	20	81	108	61	32	18	12	12	16
15	18	20	26	20	66	123	60	32	17	12	12	12
16	18	20	29	27	59	117	60	32	16	12	11	11
17	18	20	25	25	56	98	58	32	15	12	11	11
18	18	19	23	22	52	127	58	32	16	13	11	11
19	18	19	23	22	48	202	60	33	16	13	11	11
20	17	19	23	24	44	377	57	32	16	13	11	11
21	16	20	25	23	42	1490	54	28	15	12	10	10
22	17	23	27	164	41	488	53	26	15	13	10	9.9
23	17	23	25	133	39	297	51	28	14	13	11	9.7
24	18	22	23	61	47	237	49	27	14	12	11	10
25	19	22	23	38	53	265	48	26	15	12	9.8	12
26	19	21	23	47	50	233	47	26	15	13	9.0	12
27	19	21	22	993	47	202	46	26	15	13	9.4	12
28	18	21	22	766	63	178	44	25	15	12	9.5	12
29	18	22	22	854	---	159	43	24	16	12	9.8	11
30	18	22	22	287	---	138	42	24	15	13	9.6	10
31	18	---	21	164	---	127	---	23	---	13	9.6	---
TOTAL	554	603	1211	3963	1764	6027	2023	983	517	401	342.7	336.8
MEAN	17.9	20.1	39.1	128	63.0	194	67.4	31.7	17.2	12.9	11.1	11.2
MAX	20	23	276	993	136	1490	119	42	24	16	13	16
MIN	16	18	21	20	39	55	42	23	14	12	9.0	9.7
AC+T	1100	1200	2400	7860	3500	11950	4010	1950	1030	795	680	668
CAL YR 1980 TOTAL	64915.0			MEAN 177	MAX 6390	MIN 16	AC-FT 128800					
WTR YR 1981 TOTAL	18725.5			MEAN 51.3	MAX 1490	MIN 9.0	AC-FT 37140					

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 to current year.

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 ft³/s (2.46 m³/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, 1980, 1981.

SEDIMENT DISCHARGE: Maximum daily, 125,000 tons (113,000 metric tons) Jan. 16, 1973; minimum daily, 0.03 ton (0.03 metric ton) several days in 1981.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,420 mg/L Mar. 21; minimum daily mean, 1 mg/L several days.

SEDIMENT DISCHARGE: Maximum daily, 11,900 tons (10,800 metric tons) Mar. 21; minimum daily, 0.03 ton (0.03 metric ton) July 8, 10, 29.

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM FLOW, INST-CFS	SPECIFIC COND MICROMHO	PH FIELD (UNITS)	TEMP WATER (DEG C)	OXYGEN DISS (MG/L)	COD LOWLEVEL (MG/L)	BOD 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM CA, DISS (MG/L)	MAGNESIUM MG, DISS (MG/L)
80/12/22	14 00	20	364	7.4	11.0	10.0			150	47	9
81/03/24	13 00	75J	290	8.0	12.0	10.1	16	0.8	120	36	8
81/06/23	12 25	10J	494	8.0	23.0	9.0			140	45	8

DATE	TIME	SODIUM NA, DISS (MG/L)	POTASSIUM K, DISS (MG/L)	ALKA- LINITY (MG/L)	SULFATE SO4-DISS (MG/L)	CHLORIDE CL DISS (MG/L)	ROE DISS 180 C (MG/L)	RESIDUE TOT NFLT (MG/L)	NO2+NO3 N-DISS (MG/L)	AMMONIA N DISS (MG/L)
80/12/22	14 00	26	2.2	120	49	27	255		0.40	0.00
81/03/24	13 00	18	1.8	84	53	16	243	12	0.35	0.02
81/06/23	12 25	25	2.1	120	44	26	263		0.38	0.02

DATE	TIME	AMMONIA+ ORG TOT N(MG/L)	PHOS-TOT AS P (MG/L)	PHOS-DIS ORTHO P (MG/L)	BORON B, DISS (UG/L)	ORGANIC CARBON T (MG/L)
80/12/22	14 00	0.20	0.20	0.12	100	
81/03/24	13 00	0.30	0.15	0.07	100	4.5
81/06/23	12 25	0.30	0.23	0.16	0	

DATE	TIME	ARSENIC AS, DISS (UG/L)	BARIUM BA, DISS (UG/L)	CADMIUM CD, DISS (UG/L)	CHROMIUM CR, DISS (UG/L)	COPPER CU, DISS (UG/L)	IRON FE, DISS (UG/L)	LEAD PB, DISS (UG/L)	MANGANESE MN, DISS (UG/L)	MERCURY HG, TOTAL (UG/L)	SELENIUM SE, DISS (UG/L)
81/03/24	13 00	0	0	0	0	0	80	10	20	0.0	0

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	---	---	---	8.5	---	---	---	---	21.5	---	---
2	---	12.0	---	---	---	---	12.5	---	---	---	20.0	18.5
3	---	---	11.5	10.0	9.0	---	---	16.5	---	---	---	---
4	17.5	---	---	---	---	10.0	14.0	---	19.5	---	---	---
5	---	---	10.0	---	---	---	---	---	---	23.0	---	18.0
6	---	---	---	---	9.5	---	---	16.5	---	---	19.0	---
7	---	14.0	8.0	---	---	---	---	---	20.5	---	---	---
8	---	13.0	---	---	10.0	---	---	---	---	21.5	---	18.0
9	17.5	---	---	8.5	11.0	---	---	16.5	---	---	19.5	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	12.5	6.5	---	12.0	---	---	---	21.5	---	---	18.5
12	---	---	---	---	---	---	17.5	16.0	---	19.0	19.0	---
13	---	---	---	---	12.0	---	---	---	---	---	17.0	---
14	16.5	---	---	---	---	---	13.5	---	21.5	---	---	19.0
15	---	12.0	6.5	---	---	---	---	15.5	---	19.0	19.5	---
16	---	---	---	11.5	13.0	---	---	---	---	---	---	---
17	16.0	---	---	---	---	10.0	---	15.0	---	---	---	---
18	---	---	---	11.5	---	10.0	---	---	22.0	19.5	19.0	---
19	---	12.5	---	---	10.5	10.5	---	---	---	---	---	20.0
20	13.5	---	---	---	12.5	10.0	---	---	---	---	---	---
21	---	---	---	---	---	11.0	---	---	23.5	20.5	19.0	19.0
22	---	---	---	12.0	---	12.0	---	17.0	---	---	---	---
23	---	12.5	---	12.0	11.0	12.0	---	---	---	---	---	---
24	14.0	---	10.0	10.5	---	---	14.5	---	---	19.5	19.5	---
25	---	---	---	9.5	10.5	---	---	18.0	21.0	---	---	18.0
26	---	---	10.0	8.5	---	---	14.0	---	---	20.0	---	---
27	14.0	11.0	---	10.5	---	12.0	---	---	---	---	19.0	---
28	---	---	---	10.5	10.0	---	15.0	18.0	21.5	---	---	18.5
29	---	---	10.5	10.0	---	---	---	---	---	19.0	---	---
30	---	10.0	---	10.5	---	---	16.0	---	---	---	19.5	---
31	13.0	---	10.5	8.5	---	12.0	---	19.0	---	19.5	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	19	1	.05	18	4	.19	22	1	.06
2	19	1	.05	19	4	.21	22	1	.06
3	17	2	.09	20	4	.22	276	358	526
4	17	2	.09	20	4	.22	217	354	279
5	18	2	.10	19	4	.21	45	70	8.5
6	18	2	.10	19	4	.21	30	30	2.4
7	17	2	.09	19	5	.26	26	39	3.1
8	17	3	.14	19	2	.10	25	13	.88
9	17	3	.14	19	2	.10	24	6	.39
10	17	2	.09	19	2	.10	24	4	.26
11	17	2	.09	19	3	.15	24	4	.26
12	20	2	.11	19	2	.10	26	4	.28
13	19	1	.05	20	2	.11	24	4	.26
14	18	1	.05	20	1	.05	22	5	.30
15	18	1	.05	20	1	.05	26	6	.42
16	18	2	.10	20	1	.05	29	6	.47
17	18	2	.10	20	2	.11	25	6	.41
18	18	2	.10	19	2	.10	23	7	.43
19	18	2	.10	19	2	.10	23	9	.56
20	17	2	.09	19	2	.10	23	11	.68
21	16	2	.09	20	2	.11	25	12	.81
22	17	2	.09	23	2	.12	27	12	.87
23	17	2	.09	23	2	.12	25	12	.81
24	18	2	.10	22	2	.12	23	8	.50
25	19	2	.10	22	2	.12	23	7	.43
26	19	3	.15	21	1	.06	23	9	.56
27	19	3	.15	21	1	.06	22	9	.53
28	18	3	.15	21	1	.06	22	9	.53
29	18	3	.15	22	1	.06	22	9	.53
30	18	3	.15	22	1	.06	22	9	.53
31	18	4	.19	---	---	---	21	10	.57
TOTAL	554	---	3.19	603	---	3.63	1211	---	831.39

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	21	10	.57	117	6	1.9	96	36	9.3
2	21	10	.57	88	4	.95	80	28	6.0
3	21	10	.57	67	4	.72	65	19	3.3
4	22	10	.59	57	5	.77	108	52	18
5	22	9	.53	53	6	.86	97	38	10
6	21	7	.40	48	9	1.2	78	18	3.8
7	21	5	.28	42	9	1.0	71	13	2.5
8	21	4	.23	62	13	2.8	66	11	2.0
9	21	4	.23	136	46	17	61	10	1.6
10	21	4	.23	83	22	4.9	58	10	1.6
11	21	4	.23	95	28	7.2	56	10	1.5
12	20	4	.22	71	17	3.3	55	14	2.1
13	20	4	.22	57	13	2.0	170	82	45
14	20	4	.22	81	34	8.1	108	50	15
15	20	4	.22	66	24	4.3	123	62	24
16	27	6	.44	59	20	3.2	117	85	27
17	25	5	.34	56	16	2.4	98	74	20
18	22	12	.71	52	12	1.7	127	74	26
19	22	12	.71	48	8	1.0	202	108	60
20	24	7	.45	44	6	.71	377	230	399
21	23	5	.31	42	5	.57	1490	2420	11900
22	164	266	204	41	4	.44	488	266	427
23	133	240	86	39	4	.42	297	62	50
24	61	65	11	47	9	1.1	237	38	24
25	38	30	3.1	53	12	1.7	265	65	49
26	47	43	9.7	50	11	1.5	233	31	20
27	993	780	2880	47	8	1.0	202	10	5.5
28	766	475	1170	63	15	3.1	178	10	4.8
29	854	514	2040	---	---	---	159	10	4.3
30	287	11	8.5	---	---	---	138	9	3.4
31	164	8	3.5	---	---	---	127	9	3.1
TOTAL	3963	---	6424.07	1764	---	75.84	6027	---	13168.8

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	119	7	2.2	42	3	.34	24	7	.45
2	111	4	1.2	40	3	.32	23	6	.37
3	108	5	1.5	40	3	.32	22	5	.30
4	99	6	1.6	38	3	.31	21	4	.23
5	96	5	1.3	38	4	.41	20	3	.16
6	88	4	.95	37	4	.40	18	2	.10
7	83	3	.67	37	4	.40	18	2	.10
8	79	3	.64	36	3	.29	19	2	.10
9	76	3	.62	35	3	.28	18	2	.10
10	73	3	.59	34	3	.28	18	2	.10
11	68	4	.73	33	4	.36	18	4	.19
12	66	4	.71	32	5	.43	17	5	.23
13	66	3	.53	33	3	.27	18	6	.29
14	61	2	.33	32	2	.17	18	7	.34
15	60	2	.32	32	1	.09	17	5	.23
16	60	2	.32	32	2	.17	16	3	.13
17	58	2	.31	32	3	.26	15	2	.08
18	58	3	.47	32	3	.26	16	1	.04
19	60	3	.49	33	3	.27	16	2	.09
20	57	3	.46	32	4	.35	16	2	.09
21	54	3	.44	28	4	.30	15	2	.08
22	53	3	.43	26	5	.35	15	2	.08
23	51	3	.41	28	2	.15	14	2	.08
24	49	3	.40	27	2	.15	14	3	.11
25	48	2	.26	26	2	.14	15	3	.12
26	47	2	.25	26	2	.14	15	3	.12
27	46	2	.25	26	3	.21	15	3	.12
28	44	3	.36	25	3	.20	15	3	.12
29	43	3	.35	24	4	.26	16	3	.13
30	42	3	.34	24	6	.39	15	3	.12
31	---	---	---	23	8	.50	---	---	---
TOTAL	2023	---	19.43	983	---	8.77	517	---	4.80

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	15	4	.16	13	2	.07	9.8	3	.08
2	16	4	.17	12	3	.10	9.7	3	.08
3	15	4	.16	12	2	.06	10	3	.08
4	14	4	.15	12	2	.06	9.7	3	.08
5	15	5	.20	12	2	.06	11	4	.12
6	13	3	.11	12	2	.06	12	3	.10
7	13	2	.07	11	2	.06	12	3	.10
8	12	1	.03	11	2	.06	14	3	.11
9	13	1	.04	12	3	.10	11	3	.09
10	12	1	.03	12	3	.10	11	3	.09
11	13	1	.04	12	4	.13	11	3	.09
12	13	1	.04	12	5	.16	12	2	.06
13	12	2	.06	12	8	.26	12	2	.06
14	12	3	.10	12	6	.19	16	2	.09
15	12	3	.10	12	3	.10	12	2	.06
16	12	3	.10	11	3	.09	11	2	.06
17	12	3	.10	11	3	.09	11	2	.06
18	13	3	.11	11	4	.12	11	2	.06
19	13	4	.14	11	4	.12	11	3	.09
20	13	6	.21	11	5	.15	11	3	.09
21	12	7	.23	10	6	.16	10	4	.11
22	13	6	.21	10	5	.14	9.9	3	.08
23	13	5	.18	11	4	.12	9.7	2	.05
24	12	5	.16	11	4	.12	10	2	.05
25	12	4	.13	9.8	4	.11	12	2	.06
26	13	4	.14	9.0	4	.10	12	2	.06
27	13	3	.11	9.4	5	.13	12	2	.06
28	12	2	.06	9.5	4	.10	12	2	.06
29	12	1	.03	9.8	4	.11	11	2	.06
30	13	1	.04	9.6	4	.10	10	2	.05
31	13	1	.04	9.6	4	.10	---	---	---
TOTAL	401	---	3.45	342.7	---	3.43	336.8	---	2.29
YEAR	18725.5		20549.09						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1980	554.00	3.19	0	3
NOVEMBER ...	603.00	3.63	3	7
DECEMBER ...	1211.00	831.39	208	1040
JANUARY 1981	3963.00	6424.07	1080	7500
FEBRUARY ...	1764.00	75.84	501	577
MARCH	6027.00	13168.80	1920	15100
APRIL	2023.00	19.43	595	614
MAY	983.00	8.77	126	135
JUNE	517.00	4.80	2	7
JULY	401.00	3.45	0	3
AUGUST	342.70	3.43	0	3
SEPTEMBER ..	336.80	2.29	0	2
TOTAL	18725.50	20549.09	4435	24991

SAN LORENZO RIVER BASIN

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

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
NOV 07...	1420	14.0	6	19	1	2	5	34
JAN 27...	1445	10.5	2160	2020	--	22	30	39
MAR 19...	1700	10.5	219	100	--	--	--	--
21...	0800	11.0	2290	5290	4	6	8	11
22...	1330	12.0	424	127	--	--	--	--
AUG 13...	1130	17.0	8	12	3	8	20	40

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
NOV 07...	69	82	87	90	93	96	100
JAN 27...	49	60	69	76	85	97	100
MAR 19...	--	40	46	64	96	100	--
21...	12	15	26	37	89	100	--
22...	--	37	46	60	78	93	100
AUG 13...	56	68	77	86	92	98	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 mi² (15.72 km²).

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

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

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

AVERAGE DISCHARGE.--12 years, 7.62 ft³/s (0.216 m³/s), 5,520 acre-ft/yr (6.81 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 78 ft³/s (2.21 m³/s) Mar. 21 (1030 hrs), gage height, 3.92 ft (1.195 m), no other peaks above base of 100 ft³/s (2.83 m³/s); minimum daily, 0.62 ft³/s (0.018 m³/s) Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.6	1.4	1.4	6.9	4.9	7.7	3.4	2.0	1.3	.91	.91
2	1.5	1.6	1.8	1.4	5.7	4.8	7.3	3.2	2.0	1.2	.77	.92
3	1.5	1.6	9.8	1.4	5.1	4.3	7.0	3.2	2.1	1.3	.88	.99
4	1.5	1.6	12	1.6	4.5	5.6	6.6	3.2	2.1	1.3	.94	1.0
5	1.5	1.6	3.8	1.5	4.2	5.3	6.3	3.2	2.1	1.3	.86	.94
6	1.5	1.6	2.8	1.5	3.9	4.8	6.1	3.2	2.0	1.3	.78	.91
7	1.5	1.6	2.4	1.5	3.7	4.5	6.0	3.1	2.0	1.2	.77	.91
8	1.5	1.6	2.2	1.5	4.2	4.3	5.8	3.0	1.9	1.2	.69	.90
9	1.5	1.6	2.1	1.5	6.4	4.1	5.6	3.0	1.8	1.2	.79	.86
10	1.5	1.7	2.0	1.4	5.0	3.8	5.5	2.9	1.7	1.3	.83	.77
11	1.7	1.7	1.8	1.4	5.0	3.7	5.3	2.9	1.7	1.1	.92	.77
12	2.0	1.6	1.8	1.3	4.5	3.7	5.2	2.8	1.7	1.0	1.0	.77
13	1.8	1.6	1.8	1.2	4.3	8.1	5.0	2.8	1.7	1.0	1.1	.77
14	1.7	1.6	1.7	1.2	5.3	6.0	4.9	2.8	1.6	.98	1.0	.81
15	1.9	1.6	1.7	1.3	4.6	7.3	4.8	2.8	1.6	.95	.99	.77
16	1.8	1.6	1.7	1.5	4.2	7.5	4.6	2.8	1.6	.95	.91	.77
17	1.8	1.6	1.6	1.5	4.0	6.4	4.5	2.8	1.5	.89	.91	.77
18	1.7	1.6	1.6	1.4	3.7	7.0	4.4	3.4	1.5	.95	.91	.77
19	1.7	1.6	1.6	1.4	3.6	8.8	4.6	2.8	1.5	.92	.93	.77
20	1.7	1.6	1.6	1.5	3.5	15	4.5	2.4	1.4	.92	.99	.77
21	1.7	1.6	2.1	1.5	3.2	54	4.3	2.2	1.4	.95	.94	.77
22	1.7	1.6	2.4	8.3	3.1	25	4.2	2.2	1.4	.89	.86	.77
23	1.7	1.5	1.9	7.6	3.1	15	4.0	2.2	1.4	.86	.86	.74
24	1.7	1.5	1.7	5.1	3.4	13	4.0	2.1	1.4	.92	.86	.62
25	1.7	1.5	1.7	3.5	3.8	14	3.9	2.1	1.3	.91	.86	.79
26	1.7	1.4	1.7	3.3	3.5	13	3.8	2.1	1.3	.95	.93	.86
27	1.7	1.4	1.6	24	3.5	11	3.7	2.1	1.4	.91	.92	.78
28	1.7	1.4	1.5	21	4.0	10	3.7	2.1	1.4	.86	.86	.77
29	1.6	1.4	1.5	21	---	9.4	3.5	2.1	1.4	.86	.89	.77
30	1.6	1.4	1.4	13	---	8.6	3.5	2.0	1.4	.80	.82	.69
31	1.6	---	1.4	9.0	---	8.1	---	2.0	---	.80	.91	---
TOTAL	51.2	46.9	76.1	145.7	119.9	301.0	150.3	82.9	49.3	31.97	27.59	24.41
MEAN	1.65	1.56	2.45	4.70	4.28	9.71	5.01	2.67	1.64	1.03	.89	.81
MAX	2.0	1.7	12	24	6.9	54	7.7	3.4	2.1	1.3	1.1	1.0
MIN	1.5	1.4	1.4	1.2	3.1	3.7	3.5	2.0	1.3	.80	.69	.62
AC-FT	102	93	151	289	238	597	298	164	98	63	55	48
CAL YR 1980	TOTAL	4718.10	MEAN	12.9	MAX	430	MIN	1.4	AC-FT	9360		
WTR YR 1981	TOTAL	1107.27	MEAN	3.03	MAX	54	MIN	.62	AC-FT	2200		

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 mi² (118.9 km²).

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, except those for periods of no gage height record, which are poor. Minor regulation from swimming pools in San Mateo County Memorial Park and Portola State Park during summer months. Small diversions above station by pumping.

AVERAGE DISCHARGE.--30 years, 39.4 ft³/s (1.116 m³/s), 28,550 acre-ft/yr (35.2 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 631 ft³/s (17.9 m³/s) Mar. 21, gage height, 4.79 ft (1.460 m), no peak above base of 700 ft³s (19.8 m³/s); minimum daily, 0.34 ft³/s (0.010 m³/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	1.7	3.3	3.0	45	24	45	8.5	4.7	2.1	2.2	.71
2	3.8	1.7	3.7	2.8	33	30	43	8.2	4.4	2.0	2.4	.65
3	3.4	1.8	17	2.8	26	31	39	8.0	4.3	2.0	2.6	.59
4	1.7	1.7	44	2.7	21	28	33	7.9	4.2	1.9	2.3	.65
5	1.6	1.9	9.2	2.8	18	26	31	7.6	4.2	1.8	2.3	.51
6	1.7	1.8	4.4	2.6	16	51	28	7.5	4.1	1.7	2.5	.59
7	1.7	1.8	3.2	2.6	14	50	27	7.2	4.0	1.7	2.5	.68
8	1.7	2.3	2.9	2.6	14	42	25	7.1	3.9	1.6	2.3	.69
9	1.8	2.2	2.6	2.6	33	35	23	6.8	3.9	1.6	2.1	.65
10	1.7	2.2	2.5	2.6	26	31	22	6.7	3.9	1.6	1.8	.71
11	1.7	2.2	2.5	2.6	23	27	20	6.5	3.8	1.6	1.8	.75
12	1.9	2.2	2.5	2.6	20	24	19	6.4	3.8	1.6	2.0	.64
13	2.3	2.1	2.4	2.5	18	21	17	6.1	3.7	1.6	2.1	.67
14	2.4	1.9	2.5	2.5	18	19	17	6.2	3.8	1.6	2.1	.64
15	2.6	2.4	2.9	2.5	21	18	17	6.5	3.9	1.6	2.1	.65
16	2.6	2.7	2.9	2.9	18	37	15	6.4	3.7	1.6	4.4	.75
17	2.7	2.6	2.9	3.6	16	50	15	6.3	3.7	1.7	2.1	2.0
18	2.7	2.5	3.0	3.0	15	47	15	6.9	3.4	1.7	1.0	1.1
19	2.5	2.4	3.0	2.8	14	56	16	7.6	3.3	1.7	1.1	.37
20	1.9	2.3	3.0	3.0	5.0	85	14	7.1	3.4	1.7	1.8	.35
21	1.8	2.4	4.4	3.1	11	400	13	6.4	3.1	1.7	1.3	.43
22	1.8	3.0	6.8	12	10	191	12	6.6	3.0	1.6	1.2	.39
23	1.9	3.4	5.0	34	9.9	109	11	6.0	2.8	1.6	1.2	.34
24	1.7	3.3	3.2	17	12	81	11	5.4	2.7	1.5	1.1	.35
25	1.8	3.1	2.9	9.5	19	82	11	5.4	2.6	1.4	1.1	.38
26	1.9	3.1	3.0	6.7	19	104	10	5.3	2.5	1.6	.99	.46
27	2.1	2.7	3.0	136	17	86	10	5.3	2.4	1.9	1.0	.50
28	2.1	2.6	3.0	232	16	70	9.7	5.2	2.3	1.9	1.2	.68
29	1.8	2.7	3.1	293	---	63	9.2	4.7	2.2	2.1	.96	.72
30	1.7	3.2	3.2	123	---	56	8.9	4.6	2.2	2.2	.85	.59
31	1.7	---	3.1	66	---	50	---	4.7	---	2.3	.72	---
TOTAL	66.1	71.9	161.1	987.4	527.9	2024	586.8	201.1	103.9	54.2	55.12	19.19
MEAN	2.13	2.40	5.20	31.9	18.9	65.3	19.6	6.49	3.46	1.75	1.78	.64
MAX	3.8	3.4	44	293	45	400	45	8.5	4.7	2.3	4.4	2.0
MIN	1.6	1.7	2.4	2.5	5.0	18	8.9	4.6	2.2	1.4	.72	.34
AC-FT	131	143	320	1960	1050	4010	1160	399	206	108	109	38
CAL YR 1980	TOTAL	19832.70	MEAN	54.2	MAX	1960	MIN	1.6	AC-FT	39340		
WTR YR 1981	TOTAL	4858.71	MEAN	13.3	MAX	400	MIN	.34	AC-FT	9640		

11162570 SAN GREGORIO CREEK AT SAN GREGORIO, CA

LOCATION.--Lat 37°19'33", long 122°23'08", in San Gregorio Grant, San Mateo County, Hydrologic Unit 18050006, on right bank at downstream side of bridge on Old Coast Highway, 0.1 mi (0.2 km) south of town of San Gregorio, and 1.4 mi (2.3 km) upstream from mouth.

DRAINAGE AREA.--50.9 mi² (131.8 km²).

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

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

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

AVERAGE DISCHARGE.--12 years, 33.9 ft³/s (0.96 m³/s), 24,560 acre-ft/yr (30.3 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,240 ft³/s (35.1 m³/s) Mar. 21 (unknown), gage height 9.69 ft (2.954 m) no other peak above base of 1,000 ft³/s (28.3 m³/s); minimum daily, 0.01 ft³/s (<0.001 m³/s) Sept. 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	.94	1.9	2.9	38	30	48	3.9	.70	.15	.12	.05
2	1.8	.94	2.1	2.8	27	38	42	3.7	.65	.14	.12	.04
3	1.6	1.0	2.5	2.7	21	40	39	3.4	.61	.14	.12	.05
4	1.6	.96	2.9	2.6	17	35	34	3.2	.58	.13	.11	.04
5	1.6	1.0	3.2	2.8	14	33	31	3.1	.54	.13	.10	.04
6	1.6	1.0	3.5	2.7	12	65	29	2.9	.51	.12	.10	.04
7	1.8	1.0	3.2	2.7	11	64	26	2.7	.48	.12	.11	.03
8	1.8	1.3	2.6	2.6	11	52	23	2.5	.46	.11	.16	.04
9	1.5	1.2	2.3	2.6	26	48	21	2.4	.44	.11	.16	.04
10	1.5	1.2	2.1	2.6	22	37	19	2.3	.42	.11	.15	.04
11	1.3	1.2	2.0	2.6	19	33	18	2.1	.40	.11	.11	.05
12	2.0	1.2	2.0	2.6	16	28	17	2.1	.38	.11	.08	.05
13	2.8	1.1	1.9	2.5	15	26	15	2.0	.36	.11	.07	.05
14	2.6	1.1	2.1	2.5	15	23	14	2.1	.34	.11	.07	.05
15	1.8	1.3	2.3	2.5	17	23	14	2.1	.32	.11	.08	.05
16	1.9	1.5	2.3	2.9	15	42	13	2.1	.30	.11	.07	.03
17	1.9	1.5	2.3	3.5	14	62	12	2.0	.29	.11	.08	.01
18	1.9	1.4	2.5	3.0	12	58	13	2.3	.27	.11	.07	.01
19	1.7	1.4	2.4	2.8	11	74	14	2.5	.26	.11	15 .07	.02
20	1.3	1.3	2.4	2.9	10	110	10	2.3	.25	.11	.07	.03
21	1.0	1.4	3.5	3.1	9.0	500	8.7	1.8	.24	.11	.08	.03
22	1.0	1.6	8.6	9.0	8.2	260	7.9	1.5	.23	.11	.08	.02
23	1.0	1.9	4.6	28	12	150	6.8	1.3	.21	.11	.07	.02
24	.96	1.8	3.5	13	17	110	6.2	1.2	.20	.10	.07	.02
25	1.0	1.7	2.8	7.0	25	100	5.8	1.1	.20	.10	.07	.02
26	1.1	1.7	2.9	5.4	23	140	5.4	1.0	.19	.10	.06	.03
27	1.2	1.6	2.9	86	21	99	5.1	.95	.18	.11	.07	.04
28	1.2	1.5	2.9	190	20	84	4.8	.90	.17	.11	.06	.28
29	1.0	1.6	3.0	235	---	80	4.5	.86	.16	.12	.05	.07
30	.96	1.7	3.1	125	---	61	4.2	.80	.16	.13	.05	.08
31	.94	---	3.0	86	---	53	---	.75	---	.13	.05	---
TOTAL	47.16	40.04	89.3	842.3	478.2	2558	511.4	63.86	10.50	3.59	17.66	1.37
MEAN	1.52	1.33	2.88	27.2	17.1	82.5	17.0	2.06	.35	.12	.57	.046
MAX	2.8	1.9	8.6	235	38	500	48	3.9	.70	.15	.15	.28
MIN	.94	.94	1.9	2.5	8.2	23	4.2	.75	.16	.10	.05	.01
AC-FT	94	79	177	1670	949	5070	1010	127	21	7.1	35	2.7
CAL YR 1980	TOTAL	15464.91	MEAN	42.3	MAX	1410	MIN	.49	AC-FT	30670		
WTR YR 1981	TOTAL	4663.38	MEAN	12.8	MAX	500	MIN	.01	AC-FT	9250		

11162630 PILARCITOS CREEK AT HALF MOON BAY, CA

LOCATION.--Lat 37°28'07", long 122°26'08", on north boundary of Miramontes Grant, San Mateo County, Hydrologic Unit 18050006, on left bank 0.2 mi (0.3 km) downstream from State Highway 1, 0.5 mi (0.8 km) northwest of town of Half Moon Bay, and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--27.2 mi² (70.4 km²).

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

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

REMARKS.--Records fair. Flow partly regulated by storage in Pilarcitos Lake 10 mi (16 km) upstream, capacity, 3,100 acre-ft (3.82 hm³). Water is diverted to City of San Francisco Water System; small diversions for irrigation above station by pumping.

AVERAGE DISCHARGE (unadjusted).--15 years, 11.9 ft³/s (0.337 m³/s), 8,620 acre-ft/yr (10.6 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 221 ft³/s (6.26 m³/s) Jan. 29 (0045 hrs), gage height 4.61 ft (1.405 m), no other peak above base of 200 ft³/s (5.66 m³/s); minimum daily, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	2.3	.74	1.1	14	4.9	9.0	1.9	.86	0		
2	.02	2.4	1.7	1.0	9.9	4.7	8.0	1.8	.79	0		
3	0	1.6	7.5	1.1	8.4	4.7	6.9	1.6	.25	0		
4	0	.15	4.3	1.1	6.6	8.8	6.1	1.7	.23	0		
5	.17	.01	3.3	1.1	5.2	7.7	6.0	1.6	.08	0		
6	.50	0	3.0	1.1	4.7	6.7	5.8	1.4	.12	0		
7	.14	.88	2.1	1.1	3.9	6.5	5.6	1.4	.31	0		
8	.10	1.2	3.3	1.1	6.7	6.2	5.4	1.3	.32	0		
9	2.6	1.0	1.7	1.0	12	5.7	5.1	1.3	.12	0		
10	3.2	.95	1.4	1.0	6.3	5.8	4.9	1.2	0	0		
11	2.7	.85	1.4	.86	6.6	6.1	4.3	1.2	0	0		
12	2.1	1.0	1.4	1.7	5.0	7.5	3.5	.97	0	0		
13	1.7	1.1	1.4	.65	4.9	4.9	3.5	1.0	0	0		
14	1.1	.87	1.1	.58	17	22	3.3	1.1	0	0		
15	.73	1.1	1.1	.52	7.8	34	3.5	1.1	0	0		
16	.42	3.4	1.1	1.6	6.7	22	3.7	.76	0	0		
17	.34	2.7	1.2	.90	5.9	16	3.5	.82	0	0		
18	.23	1.4	1.2	.75	5.7	25	4.0	2.0	0	0		
19	.42	.55	1.6	.77	5.7	23	4.1	1.3	0	0		
20	.52	.09	1.2	.88	5.1	40	3.6	.97	0	0		
21	.46	.24	2.7	.88	4.6	73	3.3	.92	0	0		
22	.48	1.0	2.8	6.5	4.4	40	3.2	.90	0	0		
23	.49	.82	1.8	5.4	4.5	19	3.1	.70	0	0		
24	.48	.76	1.4	2.9	5.5	15	3.0	.87	0	0		
25	.65	.57	1.3	2.2	5.7	21	3.0	.83	0	0		
26	.85	.45	2.1	3.2	4.8	19	2.9	.53	0	0		
27	.71	.45	1.1	4.8	4.5	15	2.7	.53	0	.05		
28	.43	.47	3.0	47	5.3	13	2.3	.56	0	0		
29	.24	.48	4.1	89	---	12	2.0	.73	0	0		
30	.37	.60	2.2	32	---	11	1.9	.73	0	0		
31	2.3	---	1.2	18	---	9.6	---	.93	---	0		---
TOTAL	24.54	29.39	65.44	274.99	187.4	553.9	127.2	34.65	3.08	.05	0	0
MEAN	.79	.98	2.11	8.87	6.69	17.9	4.24	1.12	.10	.002	0	0
MAX	3.2	3.4	7.5	89	17	73	9.0	2.0	.86	.05	0	0
MIN	0	0	.74	.52	3.9	4.7	1.9	.53	0	0	0	0
AC-FT	49	58	130	545	372	1100	252	69	6.1	.10	0	0
(†)	58	47	19	17	3.7	0	6.1	54	88	133	124	121
CAL YR 1980	TOTAL	3654.88	MEAN	9.99	MAX	360	MIN	0	AC-FT	7250	†	4040
WTR YR 1981	TOTAL	1300.64	MEAN	3.56	MAX	89	MIN	0	AC-FT	2580	†	550

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

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CA

LOCATION.--Lat 37°39'14", long 122°25'31", in Buri Buri Grant, San Mateo County, Hydrologic Unit 18050004, on left bank in Orange Memorial Park, 1.0 mi (1.6 km) southwest of South San Francisco Post Office.

DRAINAGE AREA.--10.8 mi² (28.0 km²).

WATER-DISCHARGE RECORDS

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, except those for period of no gage-height record, Dec. 17 to Jan. 19, which are poor. Low flow affected by return flow from urban irrigation.

AVERAGE DISCHARGE.--18 years, 6.84 ft³/s (0.194 m³/s), 4,960 acre-ft/yr (6.12 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 976 ft³/s (27.6 m³/s) Jan. 27 (0130 hrs), gage height 7.44 ft (2.268 m), no other peak above base of 900 ft³/s (25 m³/s); minimum daily, 0.34 ft³/s (0.010 m³/s) Dec. 16-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.79	1.3	.40	1.6	4.4	5.8	2.0	2.0	1.3	1.0	1.3
2	1.4	.78	1.1	5.0	1.2	1.5	1.7	1.7	3.1	1.0	1.0	1.3
3	1.3	.78	80	4.2	1.1	1.3	1.6	1.6	1.3	.90	.97	1.3
4	1.1	.78	16	.82	.91	38	1.7	1.6	1.4	.91	.83	1.1
5	1.1	.78	1.3	.63	.74	1.6	1.5	1.9	1.3	1.2	1.0	1.1
6	1.2	.78	1.1	.56	.56	1.3	1.5	1.9	1.3	1.3	1.1	1.1
7	1.3	1.1	1.1	.52	.56	1.1	1.6	.90	1.2	1.2	1.3	1.3
8	1.3	2.0	.78	.50	37	1.1	2.1	.78	1.3	1.5	1.3	1.5
9	1.3	1.9	.78	.48	13	1.2	1.5	.78	1.3	1.7	1.5	1.1
10	1.5	1.6	.78	.46	1.8	1.1	1.3	.78	1.3	1.5	1.3	1.1
11	1.5	1.6	.78	.44	5.4	1.2	1.7	.78	1.3	1.5	1.3	1.8
12	3.0	1.6	.78	.43	1.1	30	1.4	.78	1.3	1.7	1.2	1.3
13	3.5	1.6	.61	.42	11	21	1.7	.78	1.3	1.4	1.2	1.3
14	3.0	1.3	.56	.41	18	1.3	1.6	.78	1.2	1.5	.93	1.3
15	1.7	1.3	.47	.40	1.3	60	1.6	1.1	1.1	1.1	1.0	1.3
16	1.7	1.3	.34	.70	1.1	3.5	1.6	.78	1.1	1.3	1.3	1.3
17	1.7	1.3	.34	.80	1.1	2.3	1.6	.78	1.2	1.6	1.3	1.3
18	1.7	1.3	.34	.50	1.3	48	7.1	6.3	1.3	1.1	1.7	1.4
19	1.4	1.3	.34	8.0	2.9	19	3.7	1.5	1.3	1.2	1.5	1.3
20	1.3	1.3	.34	2.0	1.1	76	2.8	1.3	1.3	1.1	1.1	1.3
21	1.3	2.2	20	2.0	1.1	47	2.6	1.3	1.3	1.2	1.1	1.3
22	1.3	23	2.5	72	1.1	7.6	5.5	1.3	1.3	1.7	1.1	1.1
23	1.3	3.5	.90	15	1.3	4.8	2.7	1.2	1.3	1.8	1.4	1.1
24	1.3	1.3	.58	1.1	16	3.3	2.3	1.1	1.3	1.6	1.4	1.3
25	1.2	1.3	.52	.57	12	48	2.9	1.1	1.3	2.1	1.4	17
26	1.1	1.3	.48	63	27	7.1	2.8	1.1	1.4	1.8	1.1	2.0
27	1.1	1.3	.46	203	1.3	2.1	2.4	1.1	1.9	1.5	1.3	2.0
28	1.1	1.3	.44	98	35	2.2	2.3	1.1	1.8	1.7	1.2	1.7
29	1.1	1.3	.42	32	---	3.5	2.0	1.2	1.5	1.2	1.1	1.7
30	1.1	1.6	.41	3.1	---	1.5	2.0	1.3	1.3	1.2	1.1	1.7
31	1.1	---	.41	1.9	---	1.9	---	1.3	---	.91	1.1	---
TOTAL	46.5	63.29	136.26	519.34	197.57	443.9	72.6	41.92	42.3	42.72	37.13	56.7
MEAN	1.50	2.11	4.40	16.8	7.06	14.3	2.42	1.35	1.41	1.38	1.20	1.89
MAX	3.5	23	80	203	37	76	7.1	6.3	3.1	2.1	1.7	17
MIN	1.1	.78	.34	.40	.56	1.1	1.3	.78	1.1	.90	.83	1.1
AC-FT	92	126	270	1030	392	880	144	83	84	85	74	112
(†)	.24	.21	.91	2.61	1.72	3.36	.30	.12	.06	.02	.13	.39
(‡)	.18	.22	--	--	--	3.61	.28	.14	.01	0	--	--

CAL YR 1980 TOTAL 2394.70 MEAN 6.54 MAX 211 MIN .34 AC-FT 4750
WTR YR 1981 TOTAL 1700.23 MEAN 4.66 MAX 203 MIN .34 AC-FT 3370

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

‡ Precipitation, in inches, at Skyline College gage.

COLMA CREEK BASIN

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-77, 1981.

WATER TEMPERATURES: Water years 1970-76.

SEDIMENT RECORDS: Water years 1966-76, 1981.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1969 to September 1976.

SEDIMENT RECORDS: October 1965 to March 1976 (seasonal record only for water years 1972-76).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
JAN										
19...	1400	15.0	19	118	6.1	63	74	82	89	92
23...	1105	14.0	99	1120	299	--	--	--	--	--
23...	1445	14.0	6.6	96	1.7	--	--	--	--	--
27...	1020	11.0	665	1100	1980	16	21	25	30	36
27...	1110	12.0	371	1040	1040	--	--	--	--	--
27...	1420	11.5	60	286	46	--	--	--	--	--

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. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
JAN									
19...	--	94	--	98	--	99	--	100	--
23...	--	72	--	--	--	--	--	--	--
23...	--	96	--	--	--	--	--	--	--
27...	47	--	65	--	85	--	99	--	100
27...	--	37	--	--	--	--	--	--	--
27...	--	53	--	--	--	--	--	--	--

11162800 REDWOOD CREEK AT REDWOOD CITY, CA

LOCATION.--Lat 37°26'58", long 122°13'57", in Pulgas Grant, San Mateo County, Hydrologic Unit 18050004, at Menlo Country Club, on right bank 200 ft (61 m) upstream from Alameda de las Pulgas bridge, and 2.5 mi (4.0 km) south of Redwood City Old Post Office.

DRAINAGE AREA.--1.82 mi² (4.71 km²).

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

REVISED RECORDS.--WSP 1929: Drainage area.

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

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

AVERAGE DISCHARGE.--22 years, 1.04 ft³/s (0.029 m³/s), 753 acre-ft/yr (928,000 m³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 182 ft³/s (5.15 m³/s) Jan. 28 (2230 hrs), gage height, 4.91 ft (1.497 m), no other peak above base of 130 ft³/s (3.7 m³/s) (revised); minimum daily, no flow several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.01	.06	.08	.81	1.4	.70	.16	.11	.01	.01	0
2	.02	.01	.03	.07	.65	.76	.64	.16	.09	.03	.02	0
3	.05	.02	5.2	.07	.55	.61	.60	.15	.08	.02	.02	.01
4	.02	.02	2.2	.07	.50	4.1	.50	.14	.08	.02	.02	.01
5	.02	.02	.16	.06	.46	2.1	.50	.15	.07	.02	.01	.01
6	.02	.02	.08	.06	.43	.86	.50	.17	.04	.02	.01	.01
7	.02	.03	.07	.07	.42	.67	.50	.13	.04	.01	.01	.01
8	.02	.04	.06	.06	3.0	.60	.46	.14	.05	.01	.01	.01
9	.03	.04	.05	.06	3.6	.55	.42	.13	.04	.01	.01	0
10	.03	.04	.05	.06	.86	.55	.39	.14	.04	.01	.01	.01
11	.03	.04	.05	.06	.79	.51	.39	.15	.04	.01	.01	.01
12	.03	.04	.05	.05	.60	1.3	.35	.14	.03	.01	.02	.01
13	.02	.03	.05	.07	.73	6.0	.35	.12	.04	.01	.02	0
14	.02	.03	.05	.08	.98	1.1	.35	.14	.04	.01	.03	0
15	.03	.08	.05	.07	.55	2.3	.32	.15	.04	.01	.04	0
16	.02	.02	.04	.51	.51	1.1	.29	.13	.04	.01	.02	.01
17	.03	.02	.05	.10	.51	.80	.29	.14	.04	.02	.02	.01
18	.04	.04	.06	.06	.42	1.9	.32	.21	.03	.08	.02	.01
19	.04	.02	.08	.09	.42	1.7	.46	.16	.03	.01	.02	.01
20	.04	.03	.07	.09	.40	11	.29	.16	.03	.01	.01	.01
21	.03	.03	.56	.06	.40	16	.26	.16	.03	.01	.01	0
22	.02	.05	.25	3.0	.39	2.4	.26	.16	.04	.01	.01	0
23	.02	.04	.10	2.2	.42	1.5	.21	.14	.03	.02	.01	0
24	.02	.04	.09	.47	1.9	1.2	.19	.13	.04	.03	.01	.01
25	.03	.04	.09	.28	.77	5.8	.21	.13	.03	.02	.01	.06
26	.01	.04	.13	2.2	.58	5.6	.19	.13	.06	.02	.04	.01
27	.01	.03	.13	31	.47	2.4	.19	.12	.02	.02	.05	.01
28	.02	.05	.08	30	2.3	1.3	.19	.12	.02	.02	.01	.01
29	.01	.06	.10	12	---	.95	.15	.09	.03	.01	.01	.01
30	.01	.06	.07	2.2	---	.88	.14	.09	.05	.01	.01	.01
31	.02	---	.07	1.2	---	.75	---	.11	---	.01	.01	---
TOTAL	.75	1.04	10.18	86.45	24.42	78.69	10.61	4.35	1.35	.52	.52	.26
MEAN	.024	.035	.33	2.79	.87	2.54	.35	.14	.045	.017	.017	.009
MAX	.05	.08	5.2	31	3.6	16	.70	.21	.11	.08	.05	.06
MIN	.01	.01	.03	.05	.39	.51	.14	.09	.02	.01	.01	0
AC-FT	1.5	2.1	20	171	48	156	21	8.6	2.7	1.0	1.0	.5

CAL YR 1980 TOTAL 545.70 MEAN 1.49 MAX 69 MIN .01 AC-FT 1080
WTR YR 1981 TOTAL 219.14 MEAN .60 MAX 31 MIN 0 AC-FT 435

SAN FRANCISQUITO CREEK BASIN

11164500 SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CA

LOCATION.--Lat 37°25'24", long 122°11'18", in San Francisquito Grant, Santa Clara County, Hydrologic Unit 18050003, at golf course, on right bank 1.1 mi (1.8 km) downstream from Los Trancos Creek, and 1.1 mi (1.8 km) west of Stanford University Post Office.

DRAINAGE AREA.--37.4 mi² (96.9 km²).

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

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

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

AVERAGE DISCHARGE.--42 years, 17.9 ft³/s (0.507 m³/s), 12,970 acre-ft/yr (16.0 hm³/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 626 ft³/s (17.7 m³/s) Jan. 29, gage height, 3.79 ft (1.155 m), no peak above base of 700 ft³/s (20 m³/s); minimum daily, 0.02 ft³/s (0.001 m³/s) Aug. 26-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.19	1.8	.60	5.2	11	12	.50	.32	.28	.09	.64
2	.24	.19	2.0	.74	3.3	7.9	9.8	.34	.35	.15	.14	.55
3	.24	.14	7.5	.77	4.2	5.1	6.7	.30	.25	.16	.19	.42
4	.30	.23	4.6	.77	3.7	15	5.3	.24	.27	.10	.09	.40
5	.30	.29	1.2	.72	1.1	22	4.6	.24	.31	.32	.06	.18
6	.36	.59	.65	.38	1.3	9.0	4.0	.23	.26	.47	.06	.51
7	.36	.64	.50	.38	.38	5.1	2.6	.52	.16	.44	.24	.71
8	.19	.75	.44	.41	3.9	3.8	2.2	.49	.15	.41	.24	.76
9	.24	.85	.47	.37	24	3.1	2.1	.49	.25	.39	.14	.50
10	.36	.82	.50	.38	7.5	2.2	2.0	.58	.23	.18	.24	.71
11	.44	.83	.58	.43	4.2	1.2	1.0	.59	.17	.23	.36	.63
12	.60	.70	.60	.44	2.6	1.1	1.1	.65	.15	.35	.22	.94
13	.63	.80	.61	.39	2.2	103	1.3	.68	.19	.17	.22	.88
14	.52	.87	.59	.36	4.5	33	.64	.82	.23	.15	.21	.52
15	.36	.93	.56	.37	3.3	19	.73	.69	.18	.11	.24	.14
16	.44	.96	.58	.50	2.1	14	.91	.89	.21	.07	.25	.19
17	.60	.97	.52	.46	1.6	.76	.90	.99	.13	.11	.33	.36
18	.44	.88	.66	.47	1.1	2.4	.97	.83	.19	.19	.49	.36
19	.17	.91	.59	.52	1.3	14	1.8	1.4	.16	.15	.25	.52
20	.14	.99	.61	.43	.66	101	1.7	1.4	.19	.14	.25	.19
21	.19	1.1	1.3	.44	.47	298	1.3	1.4	.23	.30	.31	.14
22	.14	1.2	.89	4.3	.36	91	1.1	1.3	.21	.20	.20	.52
23	.14	1.3	.50	7.6	.40	40	.75	1.4	.04	.19	.10	.14
24	.24	1.4	.56	2.4	3.3	25	.51	1.5	.07	.25	.08	.14
25	.30	1.5	.60	1.0	5.7	68	.38	1.5	.09	.24	.05	.44
26	.24	1.5	.64	1.9	5.0	104	.30	1.5	.29	.19	.02	.14
27	.24	1.4	.67	81	3.5	51	.30	1.3	.16	.18	.02	.30
28	.24	1.3	.59	124	5.2	29	.29	1.0	.22	.06	.04	.19
29	.24	1.5	.88	179	---	21	.21	.75	.28	.09	.12	.14
30	.30	1.7	.60	34	---	18	.25	.64	.16	.14	.06	.19
31	.24	---	.64	9.9	---	14	---	.39	---	.19	.20	---
TOTAL	9.68	27.43	33.43	455.43	102.07	1132.66	67.74	25.55	6.10	6.60	5.51	12.45
MEAN	.31	.91	1.08	14.7	3.65	36.5	2.26	.82	.20	.21	.18	.42
MAX	.63	1.7	7.5	179	24	298	12	1.5	.35	.47	.49	.94
MIN	.14	.14	.44	.36	.36	.76	.21	.23	.04	.06	.02	.14
AC-FT	19	54	66	903	202	2250	134	51	12	13	11	25
(†)	.03	.07	1.34	3.70	1.60	3.01	.19	0	0	0	0	0
CAL YR 1980 TOTAL	10162.49			MEAN 27.8	MAX 1370	MIN .14	AC-FT 20160	(†) TOTAL 13.39				
WTR YR 1981 TOTAL	1884.65			MEAN 5.16	MAX 298	MIN .02	AC-FT 3740	(†) TOTAL 9.94				

† Precipitation, in inches.

11166000 MATADERO CREEK AT PALO ALTO, CA

LOCATION.--Lat 37°25'18", long 122°08'04", in Rincon de San Francisquito Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank on Ash Street 150 ft (46 m) upstream from Lambert Avenue Bridge, and 2.1 mi (3.4 km) southeast of Palo Alto Post Office.

DRAINAGE AREA.--7.26 mi² (18.80 km²).

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

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

GAGE.--Water-stage recorder. Datum of gage is 22.07 ft (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.--29 years, 1.96 ft³/s (0.056 m³/s), 1,420 acre-ft/yr (1.75 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,380 ft³/s (39.1 m³/s) Feb. 27, 1973, gage height, 5.57 ft (1.698 m), from rating curve extended above 400 ft³/s (11.3 m³/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.--Maximum discharge, 133 ft³/s (3.77 m³/s) Jan. 27, gage height, 1.72 ft (0.524 m), no peak above base of 200 ft³/s (5.7 m³/s); minimum daily, 0.02 ft³/s (0.001 m³/s) Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.07	.09	.21	.59	4.3	.84	.21	.29	.23	.16	.12
2	.11	.10	.09	.22	.42	1.5	.70	.16	.32	.25	.17	.06
3	.10	.09	.20	.30	.29	.89	.68	.14	.33	.21	.17	.07
4	.12	.09	1.3	.23	.20	9.1	.68	.16	.29	.29	.17	.05
5	.12	.07	.21	.08	.15	6.4	.52	.21	.45	.21	.09	.03
6	.10	.09	.11	.05	.14	1.9	.68	.19	.48	.23	.13	.04
7	.10	.07	.08	.07	.14	1.1	.60	.16	.42	.22	.09	.03
8	.09	.09	.06	.07	9.6	.92	.60	.16	.36	.31	.11	.02
9	.12	.10	.07	.08	8.7	.77	.60	.24	.33	.30	.06	.03
10	.11	.07	.07	.09	1.3	.74	.45	.19	.29	.28	.09	.07
11	.10	.08	.06	.11	1.3	.72	.45	.21	1.8	.29	.18	.05
12	.11	.08	.06	.19	.62	5.6	.52	.24	.19	.22	.07	.03
13	.07	.11	.08	.15	1.1	16	.45	.19	1.3	.20	.09	.11
14	.07	.09	.09	.15	4.0	1.9	.52	.16	.18	.22	.07	.26
15	.08	.15	.10	.17	.50	4.0	.40	.21	.15	.38	.06	.09
16	.07	.11	.06	.30	.34	1.4	.40	.30	.20	.21	.03	.12
17	.07	.09	.08	.10	.30	.89	.45	.24	.20	.18	.05	.08
18	.09	.09	.05	.08	.32	2.5	.99	.27	.25	.21	.06	.07
19	.14	.09	.06	.08	.29	3.0	1.9	1.9	.32	.17	.11	.07
20	.33	.11	.07	.09	.22	12	.45	.38	.28	.18	.09	.05
21	.08	.11	3.1	.10	.19	18	.35	.27	.30	.19	.07	.05
22	.08	.24	.19	12	.15	4.1	.52	.32	.32	.18	.06	.21
23	.10	.13	.05	2.3	.24	2.2	.35	.31	.33	.17	.05	.29
24	.10	.15	.07	.46	3.3	1.6	.27	.34	.23	.16	.05	.16
25	.08	.09	.04	.14	10	6.8	.30	.28	.21	.13	.08	.49
26	.06	.11	.04	4.9	2.8	11	.30	.36	.21	.13	.04	.15
27	.08	.09	.04	52	.89	3.0	.35	.33	.20	.16	.05	.13
28	.16	.13	.26	42	3.0	1.7	.35	.27	.21	.31	.04	.11
29	.09	.15	.22	26	---	1.4	.30	.43	.26	.35	.04	.12
30	.12	.09	.17	3.6	---	.98	.24	.31	.27	.28	.03	.04
31	.08	---	.19	1.3	---	.83	---	.28	---	.18	.09	---
TOTAL	3.23	3.13	27.16	147.62	51.09	127.24	16.21	9.42	10.97	7.03	2.65	3.20
MEAN	.10	.10	.88	4.76	1.82	4.10	.54	.30	.37	.23	.086	.11
MAX	.33	.24	.20	52	10	18	1.9	1.9	1.8	.38	.18	.49
MIN	.06	.07	.04	.05	.14	.72	.24	.14	.15	.13	.03	.02
AC-FT	6.4	6.2	54	293	101	252	32	19	22	14	5.3	6.3
CAL YR 1980	TOTAL	1312.80	MEAN 3.59	MAX 221	MIN .03	AC-FT 2600						
WTR YR 1981	TOTAL	408.95	MEAN 1.12	MAX 52	MIN .02	AC-FT 811						

STEVENS CREEK BASIN

11166480 STEVENS CREEK RESERVOIR NEAR MONTE VISTA, CA

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

DRAINAGE AREA.--17.3 mi² (44.8 km²).

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

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

REMARKS.--Reservoir is formed by earthfill dam completed in 1936. Capacity, 3,600 acre-ft (4.44 hm³) between elevations 444.9 ft (135.61 m), invert of outlet tunnel and 534.8 ft (163.01 m), crest of spillway. Water released down Stevens Creek for irrigation and ground-water recharge by percolation.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 4,100 acre-ft (5.06 hm³) Dec. 26, 1955, elevation, 538.61 ft (164.168 m); maximum elevation, 539.70 ft (164.501 m) Mar. 16, 1967; no contents at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 1,190 acre-ft (1.48 hm³) Apr. 19, elevation, 500.8 ft (152.63 m); no minimum observed.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Contents
Sept. 30, 1980.....	406
Oct. 31.....	258
Nov. 30.....	139
Dec. 31.....	228
Jan. 31, 1981.....	908
Feb. 29.....	965
Mar. 31.....	1130
Apr. 30.....	1150
May 31.....	998
June 30.....	693
July 31.....	467
Aug. 31.....	229
Sept. 30.....	--

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 mi² (31.1 km²), revised. PERIOD OF RECORD, January 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).
Reservoir is formed by earthfill dam completed in 1936. Capacity, 1,780 acre-ft (2.19 hm³) between elevations 533.1 ft (162.49 m), invert of outlet tunnel and 606.9 ft (184.98 m), crest of spillway. Water released down Alamitos Creek for ground-water recharge by percolation and minor irrigation. Up to 100 ft³/s (2.83 m³/s) diverted to Calero Reservoir at times. Record of contents furnished by Santa Clara Valley Water District.
EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 2,150 acre-ft (2.65 hm³) Jan. 31, 1963, elevation, 610.24 ft (186.001 m), from floodmarks; no contents at times in each year except 1942-43, 1962-63, 1966, 1968-70, 1973-75.
EXTREMES FOR CURRENT YEAR: Maximum contents observed, 1,540 acre-ft (1.90 hm³) Oct. 1, elevation, 602.7 ft (183.71 m); minimum observed, 235 acre-ft (290,000 m³) Dec. 3, elevation, 563.4 ft (171.73 m).
- 11166740 CALERO RESERVOIR.--Lat 37°11'00", long 121°47'28", in San Vicente Grant, Santa Clara County, Hydrologic Unit 18050003, at center of dam on Arroyo Calero, 1.7 mi (2.7 km) northeast of New Almaden, and 6 mi (10 km) southeast of Edenvale. DRAINAGE AREA, 6.93 mi² (17.95 km²) revised. PERIOD OF RECORD, January 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).
Reservoir is formed by earthfill dam completed to crest elevation 482.55 ft (147.081 m) in 1936 and raised to 483.5 ft (147.37 m) in 1962. Capacity, 10,160 acre-ft (12.5 hm³) between elevations 393.7 ft (120.00 m), center of outlet tunnel and 483.5 ft (147.37 m), crest of spillway. Water released down Arroyo Calero for ground-water recharge by percolation and minor irrigation. Up to 100 ft³/s (2.83 m³/s) diverted from Almaden Reservoir to Calero Reservoir at times. For WATER-QUALITY RECORDS, see following page. Record of contents furnished by Santa Clara Valley Water District.
EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 10,520 acre-ft (13.0 hm³) Apr. 7, 1967, elevation, 485.21 ft (147.892 m); no contents at times in each year except 1942-45, 1963-78.
EXTREMES FOR CURRENT YEAR: Maximum contents observed, 7,790 acre-ft (9.61 hm³) Oct. 1, elevation, 476.5 ft (145.25 m); minimum observed, 1,310 acre-ft (1.62 hm³) Sept. 30, elevation, 440.0 ft (134.12 m).
- 11167370 GUADALUPE RESERVOIR.--Lat 37°11'57", long 121°52'42", in Los Capitancillos Grant, Santa Clara County, Hydrologic Unit 18050003, at center of dam on Guadalupe Creek, 3.6 mi (5.8 km) northwest of New Almaden, and 5.0 mi (8.0 km) southeast of Los Gatos. DRAINAGE AREA, 5.99 mi² (15.51 km²), revised. PERIOD OF RECORD, January 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).
Reservoir is formed by earthfill dam completed in 1936. Capacity, 3,740 acre-ft (4.61 hm³) between elevations 506.8 ft (154.47 m), invert of outlet tunnel and 617.3 ft (188.15 m), crest of spillway. Water released down Guadalupe Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.
EXTREMES FOR PERIOD OF RECORD: Maximum contents 3,790 acre-ft (4.67 hm³) 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, 1,910 acre-ft (2.36 hm³) May 1, elevation, 589.5 ft (179.67 m); minimum observed, 290 acre-ft (358,000 m³) Dec. 3, elevation, 543.4 ft (165.64 m).
- 11167950 LAKE ELSMAN.--Lat 37°07'51", long 121°55'47", in SE¼ sec.23, T.9 S., R.1 W., Santa Clara County, Hydrologic Unit 18050003, at center of Austrian Dam on Los Gatos Creek, and 7.3 mi (11.7 km) southeast of Los Gatos. DRAINAGE AREA, 9.78 mi² (25.33 km²), revised. PERIOD OF RECORD, February 1951 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by San Jose Water Works).
Reservoir is formed by earthfill dam completed in 1951; topped by a 2-foot (0.6-m) inflatable surcharge dam since 1956. Usable capacity, 6,280 acre-ft (7.74 hm³) between elevations 944 ft (287.7 m), elevation of outlet gates and 1,112 ft (338.9 m), top of 2-foot (0.6-m) inflatable surcharge dam. Dead storage, 60 acre-ft (74,000 m³). Water released down Los Gatos Creek for domestic and industrial use. Record of contents furnished by San Jose Water Works.
EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 6,640 acre-ft (8.19 hm³) Jan. 31, 1963, elevation, 1,115.1 ft (339.88 m); no contents Nov. 30, 1968, Nov. 5, 1969, Oct. 31, 1972, Nov. 30, 1974.
EXTREMES FOR CURRENT YEAR: Maximum contents observed, 3,410 acre-ft (4.20 hm³) Apr. 30 elevation, 1,079.7 ft (329.09 m); minimum observed, 648 acre-ft (799,000 m³) Nov. 30 elevation, 1,022.6 ft (311.69 m).
- 11167980 LEXINGTON RESERVOIR.--Lat 37°12'06", long 121°59'17", in SE¼ sec.29, T.8 S., R.1 W., Santa Clara County, Hydrologic Unit 18050003, at center of dam on Los Gatos Creek, and 1.7 mi (2.7 km) south of Los Gatos. DRAINAGE AREA, 36.9 mi² (95.6 km²), revised. PERIOD OF RECORD, December 1952 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).
Reservoir is formed by earthfill dam completed in 1952. Capacity, 20,210 acre-ft (24.9 hm³) between elevations 519 ft (158.2 m), invert at outlet tunnel and 649.9 ft (198.09 m), crest of spillway. Dead storage, 31 acre-ft (38,200 m³). Water released down Los Gatos Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.
EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 23,190 acre-ft (28.6 hm³) Mar. 16, 1967, elevation, 654.00 ft (199.339 m); no contents at times in each year except 1963, 1966-74.
EXTREMES FOR CURRENT YEAR: Maximum contents observed, 6,380 acre-ft (7.86 hm³) Apr. 3, elevation, 602.8 ft (183.72 m); minimum observed, 1,460 acre-ft (1.80 hm³) Sept. 30, elevation 561.2 ft (171.06 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY
STORAGE ABOVE SPILLWAY CREST) AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Almaden Reservoir	Calero Reservoir	Guadalupe Reservoir	Lake Elsman	Lexington Reservoir
Sept. 30, 1980.....	1540	7790	436	1380	6250
Oct. 31.....	514	7480	359	826	4840
Nov. 30.....	239	5900	295	648	4060
Dec. 31.....	259	4910	322	786	3840
Jan. 31, 1981.....	998	5710	1020	786	5520
Feb. 29.....	387	6810	1230	1560	5480
Mar. 31.....	1250	6970	1740	2140	6380
Apr. 30.....	1430	6560	1910	2980	5370
May 31.....	1280	5600	1570	3410	4410
June 30.....	1100	4570	820	3150	3580
July 31.....	880	3280	612	2460	2840
Aug. 31.....	770	1670	466	1090	2120
Sept. 30.....	726	1310	373	1020	1460

WATER-QUALITY RECORDS

BIOLOGICAL DATA: Water year 1981.

[illegible]

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TRANS- PAR- ENCY (SECCHI DISK) (M)	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)
APR											
07...	1305	5.2	--	--	--	--	--	--	--	1.0	--
07...	1310	5.0	301	8.5	17.4	750	--	10.3	108	--	3.38
07...	1311	1.0	300	8.5	17.1	750	--	10.3	107	--	3.47
07...	1312	2.0	301	8.5	16.5	750	--	10.4	107	--	3.47
07...	1313	3.0	300	8.5	16.0	750	--	10.5	107	--	3.57
07...	1314	4.0	300	8.5	15.8	750	--	10.3	105	--	3.57
07...	1315	5.0	299	8.4	15.6	750	--	10.2	103	--	3.67
07...	1316	6.0	302	8.3	14.2	750	--	9.3	91	--	3.11
07...	1317	7.0	305	8.2	13.7	750	--	8.6	83	--	3.98
07...	1318	8.0	305	8.0	13.2	750	--	7.7	74	--	5.55
07...	1319	9.0	303	7.9	12.8	750	--	6.9	66	--	8.48
07...	1320	10.0	300	7.8	12.6	750	--	6.6	63	--	10.93
07...	1321	11.0	299	7.8	12.4	750	--	6.1	58	--	10.31
07...	1322	12.0	299	7.8	12.3	750	--	5.7	54	--	11.98
07...	1323	13.0	297	7.7	12.2	750	--	5.1	48	--	13.53
07...	1324	14.0	298	7.7	12.0	750	--	4.6	43	--	14.92
07...	1325	15.0	299	7.6	11.7	750	--	3.4	31	--	16.07
07...	1326	16.0	300	7.6	11.5	750	--	1.3	12	--	18.04
07...	1327	17.0	301	7.5	11.4	750	--	1.1	10	--	18.04
07...	1328	18.0	301	7.5	11.4	750	--	.7	6	--	18.04
07...	1329	19.0	301	7.5	11.4	750	--	.6	6	--	18.04
07...	1330	20.0	301	7.4	11.4	750	--	.2	2	--	23.24
07...	1345	1.0	300	8.5	17.1	750	--	10.3	107	--	--
07...	1400	7.0	305	8.2	13.7	750	--	8.6	83	--	--
07...	1410	18.0	301	7.5	11.4	750	--	.7	6	--	--
JUN											
16...	1214	--	--	--	--	--	1.20	--	--	--	--
16...	1215	.10	--	--	--	--	--	--	--	48	--
16...	1216	.50	323	8.4	21.5	755	--	8.9	102	37	5.39
16...	1217	1.0	319	8.4	21.4	755	--	9.0	103	25	5.39
16...	1218	1.5	319	8.4	21.4	755	--	9.1	105	17	5.39
16...	1219	2.0	318	8.4	21.4	755	--	9.2	106	8.2	5.39
16...	1220	2.5	--	--	--	--	--	--	--	4.9	--
16...	1221	3.0	318	8.4	21.0	755	--	9.1	103	3.0	5.88
16...	1222	3.5	--	--	--	--	--	--	--	1.6	--
16...	1223	4.0	320	8.4	20.7	755	--	8.9	100	1.0	6.24
16...	1224	5.0	318	8.4	20.6	755	--	8.8	99	--	6.64
16...	1225	6.0	316	8.3	20.3	755	--	8.0	90	--	8.32
16...	1226	7.0	316	8.2	20.1	755	--	7.2	80	--	11.25
16...	1227	8.0	317	8.0	19.8	755	--	6.3	70	--	10.81
DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TRANS- PAR- ENCY (SECCHI DISK) (M)	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)
JUN											
16...	1228	9.0	310	7.9	18.4	755	--	2.8	30	--	9.54
16...	1229	10.0	315	7.7	17.1	755	--	1.3	14	--	5.71
16...	1230	12.0	316	7.6	16.0	755	--	.6	6	--	13.50
16...	1231	14.0	310	7.6	15.6	755	--	.4	4	--	14.60
16...	1232	16.0	304	7.5	14.5	755	--	.2	2	--	31.30
16...	1235	1.0	319	8.4	21.4	755	--	9.0	103	--	--
16...	1250	10.0	315	7.7	17.1	755	--	1.3	14	--	--
16...	1300	16.0	304	7.5	14.5	755	--	.2	2	--	--
SEP											
24...	1230	.10	--	--	--	--	--	--	--	78	--
24...	1231	.50	361	8.5	21.9	755	--	7.6	87	25	16.54
24...	1232	1.0	359	8.5	21.8	755	--	7.7	89	6.3	16.54
24...	1233	1.5	--	--	--	--	--	--	--	1.6	--
24...	1234	1.8	--	--	--	--	--	--	--	1.0	--
24...	1235	2.0	361	8.5	21.2	755	--	7.8	89	--	16.30
24...	1236	3.0	366	8.4	20.9	755	--	7.8	89	--	16.30
24...	1237	4.0	363	8.4	20.7	755	--	8.1	91	--	16.07
24...	1238	5.0	363	8.4	20.6	755	--	8.0	90	--	17.69
24...	1239	6.0	363	8.4	20.6	755	--	7.8	88	--	20.46
24...	1240	7.0	364	8.4	20.6	755	--	7.4	83	--	22.09
24...	1241	8.0	365	8.3	20.5	755	--	7.4	83	--	23.24
24...	1242	9.0	366	8.3	20.4	755	--	6.7	75	--	24.86
24...	1243	10.0	366	8.3	20.2	755	--	6.8	76	--	24.86
24...	1245	.10	--	--	--	--	.53	--	--	--	--
24...	1300	1.0	359	8.5	21.8	755	--	7.7	89	--	--
24...	1310	4.0	363	8.4	20.7	755	--	8.1	91	--	--
24...	1320	9.0	366	8.3	20.4	755	--	6.7	75	--	--

GUADALUPE RIVER BASIN
11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--

AT DAM--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (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)
DEC												
09...A	1335	1.0	278	8.2	11.6	9.8	--	--	140	9	30	15
09...A	1345	9.0	282	8.2	11.3	9.5	--	--	140	9	30	15
09...A	1400	8.0	285	8.2	10.8	9.7	--	--	140	9	30	15
09...	1415	.10	--	--	--	--	K5	K7	--	--	--	--
APR												
07...A	1345	1.0	300	8.5	17.1	10.3	--	--	140	7	29	16
07...A	1400	7.0	305	8.2	13.7	8.6	--	--	140	9	29	16
07...A	1410	18.0	301	7.5	11.4	.7	--	--	140	9	31	14
07...	1610	.10	--	--	--	--	K1	K4	--	--	--	--
JUN												
16...A	1235	1.0	319	8.4	21.4	9.0	--	--	150	10	31	18
16...A	1250	10.0	315	7.7	17.1	1.3	--	--	150	11	30	17
16...A	1300	16.0	304	7.5	14.5	.2	--	--	140	1	31	16
16...	1315	.10	--	--	--	--	<1	<1	--	--	--	--
SEP												
24...	1245	.10	--	--	--	--	K1	K2	--	--	--	--
24...A	1300	1.0	359	8.5	21.8	7.7	--	--	170	0	34	20
24...A	1310	4.0	363	8.4	20.7	8.1	--	--	170	0	34	20
24...A	1320	9.0	366	8.3	20.4	6.7	--	--	170	0	35	20

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RINE, 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)
DEC											
09...	9.0	12	.3	1.4	--	15	11	.2	12	172	.22
09...	10	14	.4	1.4	--	15	11	.2	12	174	.24
09...	9.0	12	.3	1.3	--	15	11	.2	12	173	.23
09...	--	--	--	--	--	--	--	--	--	--	--
APR											
07...	9.0	12	.3	1.5	--	13	11	.1	9.5	169	.21
07...	9.0	12	.3	1.5	--	14	10	.1	10	169	.21
07...	8.8	12	.3	1.6	--	13	10	.1	12	171	.21
07...	--	--	--	--	--	--	--	--	--	--	--
JUN											
16...	11	13	.4	2.0	--	12	12	.1	4.0	174	.25
16...	11	14	.4	1.8	--	13	14	.1	7.7	178	.25
16...	10	13	.4	1.7	--	12	11	.1	11	177	.23
16...	--	--	--	--	--	--	--	--	--	--	--
SEP											
24...	--	--	--	--	--	--	--	--	--	--	--
24...	16	17	.5	1.4	172	19	21	.1	6.4	222	.28
24...	14	15	.5	1.5	205	19	18	.1	6.3	237	.28
24...	13	14	.4	1.4	172	16	14	.1	6.4	210	.28

DATE	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, AMMONIA SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
DEC											
09...	.09	.02	<.02	<.02	.74	.48	.76	.50	.04	<.01	<.01
09...	.08	.02	<.02	<.02	.69	.44	.71	.46	.04	<.01	<.01
09...	.11	.03	<.02	.06	.44	.42	.46	.48	.05	<.01	<.01
09...	--	--	--	--	--	--	--	--	--	--	--
APR											
07...	.02	<.01	<.10	<.10	.66	.69	.76	.79	.05	.06	<.03
07...	.11	<.01	<.10	<.10	--	.69	--	.79	.04	<.03	<.03
07...	.41	<.01	<.10	<.10	.82	.75	.83	.85	.11	.09	<.03
07...	--	--	--	--	--	--	--	--	--	--	--
JUN											
16...	<.01	<.01	.04	.10	.41	.37	.45	.47	.03	<.01	<.01
16...	.02	<.01	.02	<.02	.50	.39	.52	.41	.04	<.01	<.01
16...	.02	<.01	<.02	.03	.44	.53	.46	.56	.07	<.01	.02
16...	--	--	--	--	--	--	--	--	--	--	--
SEP											
24...	--	--	--	--	--	--	--	--	--	--	--
24...	.02	<.01	<.10	<.10	.83	.61	.93	.71	.06	.06	.01
24...	.05	<.01	<.10	<.10	.82	.49	.92	.59	.09	.02	.01
24...	.07	<.01	.16	.15	.76	.53	.92	.68	.08	.02	.01

A Chemical-quality sample analyzed by Santa Clara Valley Water District.
K Results based on colony count outside the acceptable range (non-ideal colony count).
< Actual value is known to be less than the value shown.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA

AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE	DEC 9,80		DEC 9,80		DEC 9,80		APR 7,81		APR 7,81		APR 7,81	
TIME	1335		1345		1400		1345		1400		1410	
DEPTH (M)	1.0		9.0		18.0		1.0		7.0		18.0	
TOTAL CELLS/ML	2600		1600		1900		3300		1000		300	
DIVERSITY: DIVISION	1.1		1.0		0.8		1.6		0.9		0.3	
..CLASS	1.1		1.0		0.8		1.6		0.9		0.3	
..ORDER	1.5		1.3		0.9		1.7		1.3		0.7	
...FAMILY	2.4		2.2		2.0		2.2		2.7		0.7	
....GENUS	2.6		2.7		2.2		2.3		3.1		0.7	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)												
..BACILLARIOPHYCEAE												
...BACILLARIALES												
....NITZSCHIAEAE												
.....NITZSCHIA	39	1	13	1	--	-	* 0	--	-	--	-	
....EUPODISCALES												
....COSCINODISCAEAE												
.....COSCINODISCUS	--	-	--	-	--	-	* 0	65	6	--	-	
....CYCLOTELLA	310	12	78	5	230	12	--	-	--	-	26	9
....MELOSIRA	130	5	78	5	--	-	--	-	--	-	--	-
....STEPHANODISCUS	39	1	13	1	26	1	--	-	13	1	--	-
..FRAGILARIALES												
....FRAGILARIAEAE												
.....ASTERIONELLA	26	1	--	-	--	-	--	-	--	-	--	-
.....FRAGILARIA	--	-	--	-	--	-	590#	18	--	-	260#	87
....SYNEDRA	65	2	91	6	--	-	* 0	--	-	--	-	
..NAVICULALES												
....NAVICULACEAE												
.....NAVICULA	--	-	26	2	--	-	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
....CHLOROCOCCACEAE												
....SCHROEDERIA	170	6	52	3	78	4	* 0	13	1	--	-	
....COCCOMYXACEAE												
.....ELAKATOTHRIS	--	-	--	-	--	-	--	-	39	4	--	-
....HYDRODICTYACEAE												
.....PEDIASTRUM	1300#	48	740#	46	960#	51	39	1	230#	23	--	-
....MICRACTINIACEAE												
.....MICRACTINIUM	--	-	--	-	--	-	--	-	--	-	--	-
....OOCYSTACEAE												
.....ANKISTRODESMUS	--	-	--	-	--	-	--	-	--	-	--	-
.....CLOSTERIOPSIS	* 0		--	-	--	-	--	-	--	-	--	-
....FRANCEIA	--	-	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	26	1	--	-	26	1	420	13	160#	15	--	-
....PALMELLACEAE												
....SPHAEROCYSTIS	--	-	--	-	--	-	100	3	--	-	--	-
....SCENEDESMACEAE												
.....COELASTRUM	360	14	210	13	360#	19	210	6	160#	15	--	-
....CRUCIGENIA	--	-	210	13	100	5	--	-	--	-	--	-
....SCENEDESMUS	--	-	26	2	--	-	210	6	190#	19	--	-
..VOLVOCALES												
....CHLAMYDOMONADACEAE												
.....CARTERIA	* 0		--	-	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	52	2	13	1	13	1	* 0	39	4	--	-	
....CHLOROGONIUM	--	-	--	-	--	-	--	-	--	-	--	-
....PHACOTACEAE												
.....PHACOTUS	--	-	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES												
....DESMIDIACEAE												
.....CLOSTERIUM	--	-	--	-	--	-	--	-	--	-	--	-
....STAUSTRUM	--	-	--	-	39	2	--	-	26	3	--	-
....ZYGNEMATAEAE												
.....MOUGEOTIA	--	-	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
..CRYPTOPHYCEAE												
...CRYPTOMONADALES												
....CRYPTOCHRYSIDACEAE												
.....CHROOMONAS	78	3	--	-	--	-	* 0	--	-	--	-	
....CRYPTOMONADACEAE												
.....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-	--	-

See footnotes at end of table.

AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE TIME	DEC 9,80 1335		DEC 9,80 1345		DEC 9,80 1400		APR 7,81 1345		APR 7,81 1400		APR 7,81 1410	
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
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
...ANACYSTIS	*	0	78	5	--	-	--	-	39	4	13	4
...NOSTOCALES												
...NOSTOCACEAE												
...APHANIZOMENON	--	-	--	-	--	-	1600#	49	--	-	--	-
...OSCILLATORIALES												
...OSCILLATORIAEAE												
...LYNGBYA	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
...EUGLENA	--	-	--	-	--	-	26	1	13	1	--	-
...PHACUS	--	-	--	-	--	-	--	-	13	1	--	-
...TRACHELOMONAS	39	1	--	-	52	3	*	0	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
...DINOKONTAE												
...GLENODINIACEAE												
...GLENODINIUM	--	-	--	-	--	-	--	-	--	-	--	-
...GYMNODINIACEAE												
...GYMNODINIUM	--	-	--	-	--	-	--	-	26	3	--	-
...PERIDINIACEAE												
...PERIDINIUM	--	-	--	-	--	-	--	-	--	-	--	-
DATE	JUN 16,81		JUN 16,81		JUN 16,81		SEP 24,81		SEP 24,81		SEP 24,81	
TIME	1235		1250		1300		1300		1310		1320	
DEPTH (M)	1.0		10.0		16.0		1.0		4.0		9.0	
TOTAL CELLS/ML	19000		7800		250		5200		6800		8200	
DIVERSITY: DIVISION	1.4		1.4		0.8		1.8		1.3		1.2	
..CLASS	1.4		1.4		0.8		1.8		1.3		1.2	
...ORDER	1.7		1.5		1.4		2.3		1.7		1.4	
...FAMILY	1.9		1.6		1.4		2.6		2.0		1.4	
...GENUS	1.9		1.7		1.4		2.9		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	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)												
..BACILLARIOPHYCEAE												
...BACILLARIALES												
...NITZSCHIAEAE												
...NITZSCHIA	--	-	--	-	--	-	80	2	80	1	210	3
...EUPODISCALES												
...COSCINODISCACEAE												
...COSCINODISCUS	--	-	*	0	--	-	40	1	80	1	82	1
...CYCLOTELLA	*	0	--	-	--	-	80	2	--	-	--	-
...MELOSIRA	9100#	48	3500#	45	180#	74	340	7	480	7	120	2
...STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-	--	-
...FRAGILARIALES												
...FRAGILARIAEAE												
...ASTERIONELLA	--	-	--	-	--	-	--	-	--	-	--	-
...FRAGILARIA	--	-	52	1	--	-	--	-	--	-	--	-
...SYNEDRA	--	-	--	-	13	5	--	-	--	-	--	-
...NAVICULALES												
...NAVICULACEAE												
...NAVICULA	--	-	--	-	13	5	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
...CHLOROCOCCACEAE												
...SCHROEDERIA	*	0	*	0	--	-	80	2	80	1	--	-
...COCCOMYXACEAE												
...ELAKATOTHRIX	*	0	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE												
...PEDIASTRUM	610	3	680	9	--	-	780	15	1600#	24	2600#	32
...MICRACTINIACEAE												
...MICRACTINIUM	--	-	--	-	--	-	40	1	--	-	--	-
...OOCYSTACEAE												
...ANKISTRODESMUS	--	-	--	-	--	-	--	-	120	2	41	1
...CLOSTERIOPSIS	--	-	--	-	--	-	120	2	--	-	--	-
...FRANCEIA	--	-	--	-	--	-	100	2	--	-	--	-
...KIRCHNERIELLA	--	-	--	-	--	-	40	1	--	-	--	-
...OOCYSTIS	680	4	*	0	13	5	40	1	--	-	--	-
...PALMELLACEAE												
...SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
...COELASTRUM	260	1	--	-	--	-	--	-	--	-	--	-
...CRUCIGENIA	150	1	210	3	--	-	--	-	160	2	--	-
...SCENEDESMUS	--	-	--	-	--	-	--	-	--	-	--	-

See footnotes at end of table.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA

AT DAM--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE	JUN 16,81	JUN 16,81	JUN 16,81	SEP 24,81	SEP 24,81	SEP 24,81
TIME	1235	1250	1300	1300	1310	1320
DEPTH (M)	1.0	10.0	16.0	1.0	4.0	9.0
TOTAL CELLS/ML	19000	7800	250	5200	6800	8200
DIVERSITY: DIVISION	1.4	1.4	0.8	1.8	1.3	1.2
..CLASS	1.4	1.4	0.8	1.8	1.3	1.2
..ORDER	1.7	1.5	1.4	2.3	1.7	1.4
...FAMILY	1.9	1.6	1.4	2.6	2.0	1.4
....GENUS	1.9	1.7	1.4	2.9	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	CELLS /ML	PER- CENT
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CARTERIA	--	-	--	-	--	-	--	-	--	-	--	-
...CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
...CHLOROGONIUM	--	-	--	-	--	-	440	8	160	2	--	-
...PHACOTACEAE												
....PHACOTUS	--	-	--	-	--	-	*	0	--	-	--	-
..ZYGNEMATALES												
...DESMIDIACEAE							*	0	40	1	--	-
....CLOSTERIUM	--	-	--	-	--	-	--	-	--	-	--	-
....STAUSTRUM	*	0	*	0	13	5	--	-	--	-	--	-
..ZYGNEMATAACEAE												
....MOUGEOTIA	--	-	--	-	--	-	120	2	120	2	210	3
CRYPTOPHYTA (CRYPTOMONADS)												
..CRYPTOPHYCEAE												
...CRYPTOMONADALES												
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE												
....CRYPTOMONAS	--	-	*	0	--	-	100	2	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	6300#	33	3200#	42	--	-	--	-	80	1	--	-
...NOSTOCALES												
...NOSTOCACEAE												
....APHANIZOMENON	1800	10	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIALES												
...OSCILLATORIAACEAE												
....LYNGBYA	--	-	--	-	--	-	2400#	46	3800#	56	4900#	60
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	13	5	*	0	--	-	--	-
....PHACUS	*	0	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	280	5	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)												
..DINOPHYCEAE												
...DINOKONTAE												
...GLENODINIACEAE												
....GLENODINIUM	--	-	--	-	--	-	*	0	--	-	--	-
...GYMNODINIACEAE												
....GYMNODINIUM	--	-	--	-	--	-	*	0	--	-	--	-
...PERIDINIACEAE												
....PERIDINIUM	--	-	--	-	--	-	*	0	--	-	--	-

DATE	TIME	SAM- PLING DEPTH (M)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
DEC				
09...	1335	1.0	5.04	.910
09...	1345	9.0	4.54	1.23
09...	1400	18.0	3.69	.820
APP				
07...	1345	1.0	5.56	.000
07...	1400	7.0	1.12	.000
07...	1410	18.0	4.17	.620
JUN				
16...	1235	1.0	4.00	.000
16...	1250	10.0	5.56	.000
16...	1300	16.0	1.71	.000
SEP				
24...	1300	1.0	14.5	1.91
24...	1310	4.0	9.12	1.76
24...	1320	9.0	9.04	1.29

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

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

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA--Continued

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

WATER QUALITY DATA: WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM HG)	TRANS- PAR- ENCY (SECCHI DISK) (M)	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)
DEC											
09...	1021	.50	273	8.6	11.4	760	.63	9.7	88	--	10.36
09...	1022	1.0	279	8.5	11.4	760	--	9.7	88	--	10.58
09...	1023	2.0	280	8.4	11.4	760	--	9.6	87	--	10.64
09...	1024	3.0	281	8.4	11.3	760	--	9.6	87	--	10.64
09...	1025	4.0	282	8.3	11.3	760	--	9.6	87	--	10.64
09...	1026	5.0	282	8.3	11.3	760	--	9.6	87	--	10.64
09...	1027	6.0	282	8.3	11.3	760	--	9.6	87	--	10.41
09...	1028	7.0	282	8.3	11.3	760	--	9.6	87	--	10.36
09...	1029	8.0	282	8.3	11.3	760	--	9.6	87	--	10.36
09...	1030	9.0	282	8.3	11.3	760	--	9.6	87	--	10.36
09...	1031	10.0	282	8.2	11.3	760	--	9.6	87	--	10.36
09...	1032	11.0	283	8.2	11.2	760	--	9.6	87	--	11.25
09...	1033	12.0	283	8.2	11.2	760	--	9.7	88	--	11.68
09...	1034	.10	--	--	--	--	--	--	--	70	--
09...	1035	.50	--	--	--	--	--	--	--	23	--
09...	1036	1.0	--	--	--	--	--	--	--	10	--
09...	1037	1.5	--	--	--	--	--	--	--	3.2	--
09...	1038	2.0	--	--	--	--	--	--	--	1.8	--
09...	1039	2.1	--	--	--	--	--	--	--	1.0	--
09...	1100	1.0	279	8.5	11.4	760	--	9.7	88	--	--
09...	1101	1.0	279	8.5	11.4	760	--	9.7	88	--	--
09...	1125	5.0	282	8.3	11.3	760	--	9.6	87	--	--
09...	1135	11.0	283	8.2	11.2	760	--	9.6	87	--	--
APR											
07...	0926	.10	--	--	--	--	--	--	--	61	--
07...	0927	.50	--	--	--	--	--	--	--	44	--
07...	0928	1.0	--	--	--	--	--	--	--	23	--
07...	0929	1.5	--	--	--	--	--	--	--	16	--
07...	0930	2.0	--	--	--	--	1.40	--	--	8.4	--
07...	0931	2.5	--	--	--	--	--	--	--	4.8	--
07...	0932	3.0	--	--	--	--	--	--	--	2.6	--
07...	0933	3.5	--	--	--	--	--	--	--	2.1	--
07...	0934	4.0	--	--	--	--	--	--	--	1.3	--
07...	0935	4.4	--	--	--	--	--	--	--	1.0	--
07...	0940	.50	287	8.5	15.8	750	--	10.2	104	--	4.32
07...	0941	1.0	291	8.5	15.8	750	--	10.2	104	--	4.43
07...	0942	2.0	293	8.5	15.7	750	--	10.2	103	--	4.43
07...	0943	3.0	293	8.5	15.7	750	--	10.2	103	--	4.32
07...	0944	4.0	293	8.5	15.6	750	--	10.1	102	--	4.20
07...	0945	5.0	297	8.4	14.9	750	--	9.9	99	--	3.67

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA

AT CENTER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
APR											
07...	0946	6.0	299	8.3	14.3	750	--	9.4	93	--	3.67
07...	0947	7.0	297	8.2	14.0	750	--	8.8	86	--	4.09
07...	0948	8.0	297	8.0	13.6	750	--	8.2	80	--	7.09
07...	0949	9.0	298	7.9	13.2	750	--	7.1	68	--	9.21
07...	0950	10.0	297	7.8	12.8	750	--	6.5	62	--	10.93
07...	0951	11.0	298	7.8	12.6	750	--	5.8	55	--	14.93
07...	0952	12.0	297	7.7	12.4	750	--	4.2	40	--	14.76
07...	0953	13.0	297	7.6	11.9	750	--	3.0	28	--	18.42
07...	0954	14.0	295	7.5	11.7	750	--	2.2	20	--	19.31
07...	0955	14.3	296	7.5	11.6	750	--	1.6	15	--	19.31
07...	1054	1.0	291	8.5	15.8	750	--	10.2	104	--	--
07...	1055	1.0	291	8.5	15.8	750	--	10.2	104	--	--
07...	1115	6.0	299	8.3	14.3	750	--	9.4	93	--	--
07...	1130	13.0	297	7.6	11.9	750	--	3.0	28	--	--
JUN											
16...	0929	--	--	--	--	--	1.10	--	--	--	--
16...	0930	.10	--	--	--	--	--	--	--	66	--
16...	0931	.50	318	8.4	21.5	755	--	8.8	101	45	5.97
16...	0932	1.0	319	8.4	21.4	755	--	8.7	100	23	6.24
16...	0933	1.5	--	--	--	--	--	--	--	12	--
16...	0934	2.0	318	8.4	21.3	755	--	8.7	100	6.0	6.44
16...	0935	2.5	--	--	--	--	--	--	--	3.5	--
16...	0936	3.0	316	8.4	21.1	755	--	8.6	98	2.4	5.88
16...	0937	3.5	--	--	--	--	--	--	--	1.6	--
16...	0938	4.0	316	8.4	21.1	755	--	8.6	98	1.0	5.88
16...	0939	5.0	316	8.4	20.8	755	--	8.2	93	--	6.06
16...	0940	6.0	318	8.3	20.5	755	--	7.9	89	--	7.59
16...	0941	7.0	317	8.3	20.3	755	--	7.3	82	--	8.16
16...	0942	8.0	316	8.1	20.0	755	--	6.4	71	--	13.77
16...	0943	8.5	314	7.7	18.6	755	--	1.8	19	--	17.37
16...	0944	9.0	320	7.7	17.8	755	--	.8	9	--	13.77
16...	0945	9.5	312	7.6	17.6	755	--	.2	2	--	15.65
16...	0946	10.0	314	7.6	17.4	755	--	.2	2	--	12.59
16...	0947	11.0	307	7.6	16.7	755	--	.2	2	--	18.42
16...	1030	1.0	319	8.4	21.4	755	--	8.7	100	--	--
16...	1031	1.0	319	8.4	21.4	755	--	8.7	100	--	--
16...	1045	8.5	314	7.7	18.6	755	--	1.8	19	--	--
16...	1050	10.0	314	7.6	17.4	755	--	.2	2	--	--
SEP											
24...	1015	--	--	--	--	--	.50	--	--	--	--
SEP											
24...	1020	.10	--	--	--	--	--	--	--	88	--
24...	1021	.50	340	8.4	20.5	755	--	6.1	69	17	14.92
24...	1022	1.0	350	8.4	20.6	755	--	6.1	69	5.0	19.31
24...	1023	1.5	354	8.4	20.6	755	--	6.1	69	1.4	21.19
24...	1024	1.7	355	8.4	20.5	755	--	6.2	70	1.0	21.19
24...	1025	2.0	355	8.4	20.5	755	--	6.2	70	--	21.19
24...	1026	2.5	356	8.4	20.4	755	--	6.4	72	--	19.85
24...	1027	3.0	356	8.4	20.4	755	--	6.6	74	--	19.85
24...	1028	3.5	356	8.4	20.3	755	--	6.7	74	--	20.46
24...	1029	4.0	358	8.4	20.1	755	--	6.8	76	--	23.24
24...	1045	1.0	350	8.4	20.6	755	--	6.1	69	--	--
24...	1046	1.0	350	8.4	20.6	755	--	6.1	69	--	--
24...	1115	1.7	355	8.4	20.5	755	--	6.2	70	--	--

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA
AT CENTER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS, (MG/L AS CAC03)	HARDNESS, NONCARBONATE (MG/L AS CAC03)	CALCIUM DISSOLVED (MG/L AS CA)
DEC											
09...	1100	1.0	279	8.5	11.4	9.7	--	--	130	2	25
09...A	1101	1.0	279	8.5	11.4	9.7	--	--	140	9	30
09...A	1125	5.0	282	8.3	11.3	9.6	--	--	140	9	30
09...A	1135	11.0	283	8.2	11.2	9.6	--	--	140	9	31
09...	1420	.10	--	--	--	--	K7	K12	--	--	--
APR											
07...	1054	1.0	291	8.5	15.8	10.2	--	--	140	--	27
07...A	1055	1.0	291	8.5	15.8	10.2	--	--	140	7	29
07...A	1115	6.0	299	8.3	14.3	9.4	--	--	140	7	29
07...A	1130	13.0	297	7.6	11.9	3.0	--	--	140	9	29
07...	1605	.10	--	--	--	--	K6	K1	--	--	--
JUN											
16...	1030	1.0	319	8.4	21.4	8.7	--	--	150	--	29
16...A	1031	1.0	319	8.4	21.4	8.7	--	--	150	4	30
16...A	1045	8.5	314	7.7	18.6	1.8	--	--	150	9	31
16...A	1050	10.0	314	7.6	17.4	.2	--	--	150	11	31
16...	1320	.10	--	--	--	--	<1	<1	--	--	--
SEP											
24...	1045	1.0	350	8.4	20.6	6.1	--	--	170	--	33
24...A	1046	1.0	350	8.4	20.6	6.1	--	--	170	0	36
24...A	1115	1.7	355	8.4	20.5	6.2	--	--	170	0	36
24...	1250	.10	--	--	--	--	K1	K1	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY, FIELD (MG/L AS CAC03)	SULFATE, DISSOLVED (MG/L AS S04)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SI02)
DEC										
09...	17	9.4	13	.4	1.7	--	13	8.9	.1	11
09...	15	9.0	12	.3	1.4	--	20	11	.2	11
09...	16	9.0	12	.3	1.3	--	16	11	.2	12
09...	14	10	14	.4	1.4	--	15	11	.2	12
09...	--	--	--	--	--	--	--	--	--	--
APR										
07...	17	9.9	13	.4	1.6	--	15	10	.2	9.4
07...	16	9.0	12	.3	1.6	--	13	11	.1	9.4
07...	16	9.0	12	.3	1.6	--	13	11	.1	9.6
07...	16	9.0	12	.3	1.6	--	13	11	.1	12
07...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	19	8.0	10	.3	1.8	--	3.6	12	.1	3.7
16...	18	11	14	.4	1.8	--	13	12	.1	3.7
16...	18	11	13	.4	1.8	--	13	12	.1	4.4
16...	17	10	13	.4	1.8	--	12	11	.1	6.9
16...	--	--	--	--	--	--	--	--	--	--
SEP										
24...	21	12	13	.5	2.1	--	8.0	12	.2	6.3
24...	20	14	15	.5	1.4	172	16	15	.1	--
24...	19	13	14	.4	1.4	172	16	15	.1	6.4
24...	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, TOTAL NITRATE (MG/L AS N)	NITROGEN, TOTAL NITRITE (MG/L AS N)	NITROGEN, TOTAL NITRATE+NITRITE (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
DEC										
09...	164	.22	.00	.00	.00	.00	.04	.04	.70	.63
09...	177	.24	.11	.03	--	--	<.02	.05	.72	.62
09...	175	.23	.10	.02	--	--	.02	<.02	.66	.65
09...	174	.22	.10	.02	--	--	<.02	<.02	.70	.57
09...	--	--	--	--	--	--	--	--	--	--
APR										
07...	162	.22	.20	.01	.21	.02	.08	.05	1.5	.68
07...	169	.21	.02	<.01	--	--	<.10	<.10	1.5	.63
07...	170	.21	--	<.01	--	--	<.10	<.10	--	--
07...	172	.22	.35	<.01	--	--	<.10	<.10	1.1	.87
07...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	162	.22	.00	.00	.00	.03	.11	.10	.40	.24
16...	177	.24	.01	<.01	--	--	.18	<.02	.33	.32
16...	176	.26	.01	<.01	--	--	.03	<.02	.44	.44
16...	174	.25	.02	<.01	--	--	.02	<.02	.48	.37
16...	--	--	--	--	--	--	--	--	--	--
SEP										
24...	185	.25	--	.03	<.10	.12	.16	.17	.76	.42
24...	--	.29	<.01	<.01	--	--	<.10	<.10	--	--
24...	211	.29	<.01	<.01	--	--	<.10	.10	.88	.62
24...	--	--	--	--	--	--	--	--	--	--

See footnotes at end of table.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA

AT CENTER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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, ORTHO, DIS- SOLVED (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)
DEC										
09...	.74	.67	.74	.05	.03	.00	--	--	--	--
09...	.74	.67	--	.05	<.01	<.01	--	--	--	--
09...	.68	.67	--	.04	<.01	<.01	--	--	--	--
09...	.72	.59	--	.04	.04	<.01	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
APR										
07...	1.60	.73	1.8	.04	.03	.00	--	--	--	--
07...	1.60	.73	--	.06	<.03	<.03	--	--	--	--
07...	--	--	--	.06	.05	<.03	--	--	--	--
07...	1.20	.97	--	.14	.04	<.03	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	.51	.34	.51	.03	.01	.01	--	--	--	--
16...	.51	.34	--	.04	<.01	<.01	--	--	--	--
16...	.47	.46	--	.04	<.01	<.01	--	--	--	--
16...	.50	.39	--	.06	<.01	<.01	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
SEP										
24...	.92	.59	--	.07	.03	.02	10	1	0	0
24...	--	--	--	.13	.02	.01	50	<10	<1	<5
24...	.98	.72	--	.06	.02	.01	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--

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)
DEC										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
SEP										
24...	0	2	0	0	0	4.7	2	5	0	10
24...	<10	<10	30	<10	8	<1.0	<10	<50	<10	<50
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--

A Chemical-quality sample analyzed by Santa Clara Valley Water District.

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

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE	DEC 9,80		DEC 9,80		DEC 9,80		APR 7,81		APR 7,81		APR 7,81	
TIME	1100		1125		1135		1055		1115		1130	
DEPTH (M)	1.0		5.0		11.0		1.0		6.0		13.0	
TOTAL CELLS/ML	3100		2000		2700		4700		2300		450	
DIVERSITY: DIVISION	1.0		1.3		1.2		1.3		1.2		1.4	
..CLASS	1.0		1.3		1.2		1.3		1.2		1.4	
...ORDER	1.1		1.3		1.3		1.7		1.3		1.6	
...FAMILY	2.1		2.3		2.1		2.3		0.0		1.6	
...GENUS	2.4		2.5		2.4		2.5		0.0		1.6	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)												
.BACILLARIOPHYCEAE												
...ACHNANTHALES												
...ACHNANTHACEAE												
...ACHNANTHES												
...COCCONEIS												
.BACILLARIALES												
...NITZSCHIAEAE												
...NITZSCHIA												
...EUPODISCALES												
...COSCINODISCAEAE												
...COSCINODISCUS												
...CYCLOTELLA												
...MELOSIRA												
...STEPHANODISCUS												
...FRAGILARIALES												
...FRAGILARIAEAE												
...FRAGILARIA												
...SYNEDRA												
...NAVICULALES												
...NAVICULACEAE												
...NAVICULA												
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
...CHLOROCOCCALES												
...CHLOROCOCCACEAE												
...SCHROEDERIA												
...TETRAEDRON												
...COCCOMYXACEAE												
...ELAKATOTHRIX												
...HYDRODICTYACEAE												
...PEDIASTRUM												
...MICRACTINIACEAE												
...MICRACTINIUM												
...OOCYSTACEAE												
...ANKISTRODESMUS												
...CLOSTERIOPSIS												
...KIRCHNERIELLA												
...OOCYSTIS												
...PALMELLACEAE												
...SPHAEROCYSTIS												
...SCENEDSMUS												
...COELASTRUM												
...CRUCIGENIA												
...VOLVOCALES												
...CHLAMYDOMONADACEAE												
...CHLAMYDOMONAS												
...CHLOROGONIUM												
...ZYGNEMATALES												
...DESMIDIACEAE												
...CLOSTERIUM												
...STAUSTRUM												
...ZYGNEMATAEAE												
...MOUGEOTIA												
CHRYSOPHYTA												
.CHRYSOPHYCEAE												
...OCHROMONADALES												
...OCHROMONADACEAE												
...OCHROMONAS												
...SYNURACEAE												
...MALLONAS												
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
...CRYPTOMONADALES												
...CRYPTOCHRYSIDACEAE												
...CHROOMONAS												
...CRYPTOMONADACEAE												
...CRYPTOMONAS												

See footnotes at end of table.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA

AT CENTER--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE TIME	DEC 9,80 1100	DEC 9,80 1125	DEC 9,80 1135	APR 7,81 1055	APR 7,81 1115	APR 7,81 1130
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	90	3	13	1	230	9
...NOSTOCALES						
...NOSTOCACEAE						
....APHANIZOMENON	--	-	340#	17	--	-
...OSCILLATORIALES						
...OSCILLATORIAEAE						
....LYNGBYA	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
...EUGLENAEAE						
....EUGLENA	--	-	--	-	--	-
...PHACUS	*	0	--	-	--	-
....TRACHELOMONAS	--	-	13	1	--	-

DATE TIME	JUN 16,81 1030	JUN 16,81 1045	JUN 16,81 1050	SEP 24,81 1045	SEP 24,81 1115
DEPTH (M)	1.0	8.0	10.0	1.0	1.7
TOTAL CELLS/ML	15000	9300	15000	5300	6700
DIVERSITY: DIVISION	1.3	1.5	1.6	1.6	1.6
..CLASS	1.3	1.5	1.6	1.6	1.6
...ORDER	1.6	2.0	2.1	2.2	2.0
...FAMILY	1.8	2.3	2.3	2.4	2.4
....GENUS	1.9	2.5	2.4	2.6	2.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)										
..BACILLARIOPHYCEAE										
...ACHNANTHALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	*	0	--	-	--	-
...COCCONEIS	--	-	--	-	--	-	--	-	44	1
..BACILLARIALES										
...NITZSCHIAEAE										
....NITZSCHIA	--	-	*	0	*	0	120	2	180	3
...EUPODISCALES										
...COSCINODISCACEAE										
....COSCINODISCUS	*	0	*	0	--	-	80	2	44	1
...CYCLOTELLA	--	-	--	-	120	1	--	-	130	2
...MELOSIRA	9600#	63	4100#	44	5400#	36	280	5	360	5
...STEPHANODISCUS	--	-	*	0	--	-	--	-	--	-
..FRAGILARIALES										
...FRAGILARIAEAE										
....FRAGILARIA	130	1	530	6	*	0	--	-	--	-
...SYNEURA	--	-	--	-	--	-	--	-	--	-
..NAVICULALES										
...NAVICULACEAE										
....NAVICULA	--	-	--	-	*	0	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...CHLOROCOCCACEAE										
....SCHROEDERIA	*	0	*	0	*	0	40	1	--	-
...TETRAEDRON	--	-	--	-	--	-	--	-	--	-
...COCCOMYXACEAE										
....ELAKATOTHRIX	--	-	--	-	*	0	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	1100	7	760	8	2600#	18	1200#	23	3000#	45
...MICRACTINIAEAE										
....MICRACTINIUM	--	-	--	-	*	0	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	*	0	120	2	220	3
...CLOSTERIOPSIS	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	52	1	*	0	--	-	--	-
...OOCYSTIS	210	1	250	3	140	1	--	-	--	-
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										

See footnotes at end of table.

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA

AT CENTER--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON						
DATE	JUN 16,81		JUN 16,81		JUN 16,81	
TIME	1030		1045		1050	
DEPTH (M)	1.0		8.0		10.0	
TOTAL CELLS/ML	15000		9300		15000	
DIVERSITY: DIVISION	1.3		1.5		1.6	
..CLASS	1.3		1.5		1.6	
..ORDER	1.6		2.0		2.1	
...FAMILY	1.8		2.3		2.3	
....GENUS	1.9		2.5		2.4	
....COELASTRUM	1200	8	340	4	--	--
....CRUCIGENIA	210	1	320	3	260	2
....SCENEDESMUS	--	--	--	--	--	--
..VOLVOCALES	--	--	--	--	--	--
...CHLAMYDOMONADACEAE	--	--	--	--	--	--
....CHLAMYDOMONAS	--	--	--	--	* 0	40 1
....CHLOROGONIUM	--	--	--	--	--	200 4
..ZYGNEATALES	--	--	--	--	--	130 2
...DESMIDIACEAE	--	--	--	--	--	--
....CLOSTERIUM	--	--	--	--	40 1	--
....STAUSTRUM	* 0	--	* 0	--	--	--
...ZYGNEATAACEAE	--	--	--	--	--	--
....MOUGEOTIA	--	--	--	--	640 12	130 2
CHRYSTOPHYTA	--	--	--	--	--	--
..CHRYSTOPHYCEAE	--	--	--	--	--	--
...OCHROMONADALES	--	--	--	--	--	--
....OCHROMONADACEAE	--	--	--	--	--	--
....OCHROMONAS	--	--	--	--	* 0	--
...SYNURACEAE	--	--	--	--	--	--
....MALLONAS	--	--	--	--	--	--
CRYPTOPHYTA (CRYPTOMONADS)	--	--	--	--	--	--
..CRYPTOPHYCEAE	--	--	--	--	--	--
...CRYPTOMONADALES	--	--	--	--	--	--
....CRYPTOCHRYSIDACEAE	--	--	--	--	--	--
....CHROOMONAS	--	--	--	--	--	--
...CRYPTOMONADACEAE	--	--	--	--	--	--
....CRYPTOMONAS	* 0	--	--	--	* 0	44 1
CYANOPHYTA (BLUE-GREEN ALGAE)	--	--	--	--	--	--
..CYANOPHYCEAE	--	--	--	--	--	--
...CHROOCOCCALES	--	--	--	--	--	--
....CHROOCOCCACEAE	--	--	--	--	--	--
....ANACYSTIS	1500	10	2300#	24	3500#	24
...NOSTOCALES	--	--	--	--	--	--
....NOSTOCACEAE	--	--	--	--	--	--
....APHANIZOMENON	1200	8	630	7	2300#	15
...OSCILLATORIALES	--	--	--	--	--	--
....OSCILLATORIAACEAE	--	--	--	--	2200#	42
....LYNGBYA	--	--	--	--	--	1800# 26
EUGLENOPHYTA (EUGLENOIDS)	--	--	--	--	--	--
..EUGLENOPHYCEAE	--	--	--	--	--	--
...EUGLENALES	--	--	--	--	--	--
....EUGLENACEAE	--	--	--	--	40 1	89 1
....EUGLENA	--	--	--	--	--	--
...PHACUS	--	--	--	--	--	--
....TRACHELOMONAS	* 0	65 1	--	--	* 0	280 5

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

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

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA

AT CENTER--Continued

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)	PROUUC- TIVITY, PRIMARY NET (MG O2/ CU M/D)	RESPI- RATION (MG O2/ M3/D)
DEC							
09...	1100	1.0	5.46	1.12	--	--	--
09...	1125	5.0	4.77	1.29	--	--	--
09...	1135	11.0	4.93	1.03	--	--	--
09...	1400	1.0	--	--	1900	960	960
09...	1401	2.0	--	--	1400	1400	.0
APR							
07...	1055	1.0	6.62	.600	--	--	--
07...	1115	6.0	4.57	.000	--	--	--
07...	1130	13.0	2.64	.000	--	--	--
07...	1615	1.0	--	--	1800	1800	.0
07...	1616	2.0	--	--	930	930	.0
07...	1617	3.0	--	--	740	740	.0
07...	1618	4.0	--	--	.0	.0	.0
JUN							
16...	1030	1.0	4.79	.180	--	--	--
16...	1045	8.5	7.63	.150	--	--	--
16...	1050	10.0	6.36	.000	--	--	--
16...	1515	1.0	--	--	3800	2400	1400
16...	1516	2.0	--	--	3300	1400	1900
16...	1517	3.0	--	--	950	-480	1400
16...	1518	4.0	--	--	950	-1400	2400
SEP							
24...	1045	1.0	15.5	1.74	--	--	--
24...	1115	1.7	16.6	3.30	--	--	--
24...	1230	1.0	--	--	2700	1600	1100
24...	1231	1.7	--	--	530	.0	530

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM HG)	TRANS- PAR- ENCY (SECCHI DISK) (M)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
DEC											
09...	1500	.50	274	8.3	11.5	760	.68	10.3	94	--	9.50
09...	1501	1.0	278	8.3	11.5	760	--	10.3	94	--	9.59
09...	1502	2.0	278	8.3	11.5	760	--	10.3	94	--	9.50
09...	1503	3.0	281	8.3	11.3	760	--	10.4	95	--	9.25
09...	1504	4.0	286	8.3	10.8	760	--	10.5	95	--	10.20
09...	1505	5.0	286	8.3	10.2	760	--	10.6	94	--	11.12
09...	1506	6.0	287	8.2	10.0	760	--	10.6	94	--	11.25
09...	1507	.10	--	--	--	--	--	--	--	80	--
09...	1508	.50	--	--	--	--	--	--	--	29	--
09...	1509	1.0	--	--	--	--	--	--	--	11	--
09...	1510	1.5	--	--	--	--	--	--	--	4.0	--
09...	1520	2.0	--	--	--	--	--	--	--	1.8	--
09...	1521	2.4	--	--	--	--	--	--	--	1.0	--
09...	1525	1.0	278	8.3	11.5	760	--	10.3	94	--	--
09...	1540	5.0	286	8.3	10.2	760	--	10.6	94	--	--
APR											
07...	1457	.10	--	--	--	--	--	--	--	69	--
07...	1458	.50	--	--	--	--	--	--	--	57	--
07...	1459	1.0	--	--	--	--	--	--	--	25	--
07...	1500	1.5	--	--	--	--	1.20	--	--	14	--
07...	1501	2.0	--	--	--	--	--	--	--	6.2	--
07...	1502	2.5	--	--	--	--	--	--	--	3.8	--
07...	1503	3.0	--	--	--	--	--	--	--	2.2	--
07...	1504	3.5	--	--	--	--	--	--	--	1.2	--
07...	1505	3.6	--	--	--	--	--	--	--	1.0	--
07...	1510	.50	301	8.5	17.4	750	--	10.2	107	--	5.79
07...	1511	1.0	300	8.5	17.1	750	--	10.3	107	--	5.79
07...	1512	2.0	300	8.5	16.9	750	--	10.2	106	--	5.79
07...	1513	3.0	300	8.4	16.0	750	--	10.3	105	--	5.97
07...	1514	4.0	301	8.4	15.6	750	--	10.0	101	--	5.97
07...	1515	5.0	303	8.2	14.9	750	--	9.4	94	--	7.86
07...	1535	1.0	300	8.5	17.1	750	--	10.3	107	--	--
07...	1545	4.0	301	8.4	15.6	750	--	10.0	101	--	--
JUN											
16...	1413	--	--	--	--	--	.80	--	--	--	--
16...	1414	.10	--	--	--	--	--	--	--	48	--
16...	1415	.50	326	8.5	22.7	755	--	8.9	103	22	11.25
16...	1416	1.0	323	8.5	22.6	755	--	8.9	103	10	11.46
16...	1417	1.5	323	8.5	22.5	755	--	8.9	103	3.5	11.83
16...	1418	2.0	321	8.4	22.4	755	--	9.0	105	1.3	11.75

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
JUN										
16...	1419	2.2	--	--	--	--	--	--	1.0	--
16...	1420	2.5	318	8.5	22.4	755	9.0	105	--	11.39
16...	1421	3.0	321	8.5	22.3	755	8.9	103	--	10.87
16...	1425	1.0	323	8.5	22.6	755	8.9	103	--	--
16...	1445	3.0	321	8.5	22.3	755	8.9	103	--	--

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA

AT EAST END--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
DEC											
09...	1425	.10	--	--	--	--	K6	K10	--	--	--
09...A	1525	1.0	278	8.3	11.5	10.3	--	--	130	0	31
09...A	1540	5.0	286	8.3	10.2	10.6	--	--	140	9	29
APR											
07...A	1535	1.0	300	8.5	17.1	10.3	--	--	140	7	30
07...A	1545	4.0	301	8.4	15.6	10.0	--	--	140	7	29
07...	1600	.10	--	--	--	--	K3	K3	--	--	--
JUN											
16...	1325	.10	--	--	--	--	K1	K2	--	--	--
16...A	1425	1.0	323	8.5	22.6	8.9	--	--	150	4	30
16...A	1445	3.0	321	8.5	22.3	8.9	--	--	150	4	31

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	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)
DEC											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	14	9.5	13	.4	1.3	15	11	.2	12	173	.24
09...	16	9.5	13	.4	1.3	16	11	.2	12	174	.23
APR											
07...	15	9.0	12	.3	1.6	14	11	.1	9.1	170	.21
07...	16	9.0	12	.3	1.5	12	11	.1	9.3	169	.22
07...	--	--	--	--	--	--	--	--	--	--	--
JUN											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	18	11	14	.4	1.9	12	12	.1	3.4	176	.25
16...	18	11	13	.4	1.8	13	12	.1	3.4	178	.24

DATE	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, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
DEC											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	.12	.01	<.02	<.02	.98	.79	1.00	.81	.04	<.01	<.01
09...	.10	.01	<.02	<.02	.84	.67	.86	.69	.04	<.01	--
APR											
07...	.07	<.01	<.10	<.10	.82	.59	.92	.69	.09	<.03	<.03
07...	--	<.01	<.10	<.10	.61	.46	.71	.56	.13	<.03	<.03
07...	--	--	--	--	--	--	--	--	--	--	--
JUN											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	<.02	<.01	.08	.04	1.7	.72	1.80	.76	.04	<.01	<.01
16...	.01	<.01	.14	<.02	.66	.85	.80	.87	.05	<.01	<.01

A Chemical-quality sample analyzed by Santa Clara Valley Water District.

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

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

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA

AT EAST END--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE	DEC 9,80	DEC 9,80	APR 7,81	APR 7,81	JUN 16,81	JUN 16,81
TIME	1525	1540	1535	1545	1425	1445
DEPTH (M)	1.0	5.0	1.0	4.0	1.0	3.0
TOTAL CELLS/ML	2700	2800	7600	4100	16000	23000
DIVERSITY: DIVISION	1.4	1.6	1.2	1.6	1.3	1.3
..CLASS	1.4	1.6	1.2	1.6	1.3	1.3
..ORDER	1.5	1.8	1.6	2.0	1.6	1.7
...FAMILY	2.0	2.3	2.3	2.9	1.7	2.0
....GENUS	2.2	2.4	2.4	3.1	1.8	2.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)												
..BACILLARIOPHYCEAE												
...ACHNANTHALES												
....ACHNANTHACEAE												
.....ACHNANTHES	--	-	--	-	--	-	*	0	--	-	--	-
..BACILLARIALES												
...NITZSCHIA												
....NITZSCHIA	--	-	43	2	--	-	*	0	--	-	*	0
..EUPODISCALES												
...COSCINODISCAEAE												
....COSCINODISCUS	--	-	--	-	--	-	26	1	*	0	--	-
...CYCLOTELLA	1400#	53	1300#	48	--	-	*	0	*	0	*	0
...MELOSIRA	130	5	22	1	--	-	--	-	9100#	58	14000#	62
...STEPHANODISCUS	--	-	--	-	*	0	*	0	*	0	*	0
..FRAGILARIALES												
...FRAGILARIAEAE												
....ASTERIONELLA	--	-	--	-					*	0	--	-
...FRAGILARIA	--	-	--	-	150	2	210	5	--	-	500	2
...SYNEDRA	18	1	--	-	--	-	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
....CHLOROCOCCACEAE												
.....SCHROEDERIA	150	5	110	4	*	0	26	1	*	0	*	0
...DICTYOSPHAERIAEAE												
....DICTYOSPHAERIUM	37	1	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE												
....PEDIASTRUM	580#	21	350	13	170	2	410	10	990	6	2000	9
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	--	-	*	0	*	0	*	0
...OOCYSTIS	73	3	87	3	410	5	460	11	350	2	750	3
...PALMELLACEAE												
....SPHAEROCYSTIS	--	-	--	-	1900#	25	640#	16	--	-	--	-
...SCENEDESMACEAE												
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-	130	1
...COELASTRUM	--	-	--	-	490	6	--	-	--	-	--	-
...CRUCIGENIA	--	-	87	3	--	-	210	5	--	-	940	4
...SCENEDESMUS	37	1	--	-	310	4	180	4	--	-	--	-
...TETRASTRUM	--	-	87	3	--	-	--	-	*	0	--	-
...VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	39	1	*	0	--	-	--	-

See footnotes at end of table.

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA

AT EAST END--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE	DEC 9,80	DEC 9,80	APR 7,81	APR 7,81	JUN 16,81	JUN 16,81
TIME	1525	1540	1535	1545	1425	1445
DEPTH (M)	1.0	5.0	1.0	4.0	1.0	3.0
TOTAL CELLS/ML	2700	2800	7600	4100	16000	23000
DIVERSITY: DIVISION	1.4	1.6	1.2	1.6	1.3	1.3
..CLASS	1.4	1.6	1.2	1.6	1.3	1.3
..ORDER	1.5	1.8	1.6	2.0	1.6	1.7
...FAMILY	2.0	2.3	2.3	2.9	1.7	2.0
....GENUS	2.2	2.4	2.4	3.1	1.8	2.0

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
..ZYGNEATALES												
...DESMIDIACEAE												
....COSMARIUM	--	-	--	-	--	-	* 0	--	-	--	-	
....STAUSTRUM	--	-	22	1	*	0	* 0	* 0		* 0		
CHRYSTOPHYTA												
..CHRYSTOPHYCEAE												
..OCHROMONADALES												
...SYNURACEAE												
....MALLOMONAS	18	1	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
..CRYPTOPHYCEAE												
...CRYPTOMONADALES												
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	150	5	520#	19	52	1	150	4	*	0	--	-
...CRYPTOMONADACEAE												
....CRYPTOMONAS	55	2	22	1	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
..CYANOPHYCEAE												
...CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	18	1	--	-	620	8	190	5	3100#	20	2200	10
...NOSTOCALES												
...NOSTOCACEAE												
....ANABAENA	--	-	22	1	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	--	-	3400#	44	1400#	35	1900	12	1400	6
...OSCILLATORIALES												
...OSCILLATORIA	--	-	--	-	--	-	--	-	--	-	450	2
EUGLENOPHYTA (EUGLENOIDS)												
..EUGLENOPHYCEAE												
...EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	22	1	--	-	*	0	--	-	--	-
....TRACHELOMONAS	18	1	43	2	77	1	77	2	--	-	*	0

DATE	TIME	SAM- PLING DEPTH (M)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L)
DEC				
09...	1525	1.0	6.57	1.16
09...	1540	5.0	9.52	1.72
APR				
07...	1535	1.0	7.46	1.01
07...	1545	4.0	8.24	1.89
JUN				
16...	1425	1.0	6.49	.920
16...	1445	3.0	5.87	.000

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

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

GUADALUPE RIVER BASIN

11166740 CALERO RESERVOIR NEAR NEW ALMADEN, CA

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)
DEC 09...	1415	.85
APR 07...	1430	.30

11169000 GUADALUPE RIVER AT SAN JOSE, CA

LOCATION.--Lat 37°20'04", long 121°53'54", Santa Clara County, Hydrologic Unit 18050003, on right bank at San Jose, 100 ft (30 km) downstream from Los Gatos Creek.

DRAINAGE AREA.--146 mi² (378 km²).

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.

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, 7,130 acre-ft (8.79 hm³) was diverted by San Jose Water Works for urban use and zero acre-ft was diverted by Santa Clara Valley Water District into Alamitos percolation ponds from Coyote Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft³/s (259 m³/s) Apr. 2, 1958, gage height, 16.55 ft (5.044 m); no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,490 ft³/s (70.5 m³/s) Jan. 27, gage height, 5.80 ft (1.768 m); no flow several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	.01	.30	1.0	24	30	.52	.38	.29	.31	.27	.12
2	.20	0	.27	.60	22	6.4	.38	.37	.28	.31	.23	.14
3	.01	.01	218	1.9	19	2.0	.38	.33	.22	.29	.26	.24
4	0	.13	304	.44	13	33	.27	.41	.19	.21	.37	.11
5	0	.06	29	.27	5.2	23	.27	.39	.21	.22	.28	.05
6	0	.13	15	.34	2.9	2.2	.25	.40	.20	.29	.28	.10
7	.05	2.0	9.0	.43	2.2	.72	.28	.37	.18	.26	.25	.16
8	.10	.28	6.4	.29	105	.46	.32	.32	.18	.24	.26	.08
9	.14	.16	1.8	.30	39	.47	.24	.31	.21	.24	.38	.04
10	0	.19	.85	.42	6.2	.49	.27	.33	.50	.22	.27	.20
11	0	.18	.48	.28	12	.44	.24	.34	.44	.21	.29	.30
12	0	.17	.83	.33	9.1	5.9	.23	.32	.17	.20	.32	.27
13	0	.14	4.8	1.0	10	193	.21	.37	.17	.20	.29	.27
14	0	.15	5.0	2.4	42	22	.33	.43	.17	.23	.22	.47
15	.29	.15	3.8	1.4	3.0	25	.29	.35	.10	.28	.49	.31
16	0	.10	1.0	3.1	1.5	18	.27	.29	.60	.29	.19	.34
17	.76	.12	.68	1.7	.85	14	.31	.33	.20	.25	.21	.28
18	4.2	.15	.40	.49	.59	20	3.7	.86	.17	.24	.26	.30
19	1.7	.14	.35	.28	.44	49	13	5.6	.18	.20	.22	.30
20	.38	.16	.41	11	.42	23	3.3	6.6	.31	.23	.22	.25
21	3.5	.15	21	11	.39	49	1.4	3.7	.51	.31	.20	.28
22	.53	2.2	19	121	.39	15	.61	.97	.20	.28	.23	.21
23	0	.31	15	58	.51	8.1	.55	.42	.17	.35	.21	.26
24	.88	.86	5.0	4.1	4.2	1.3	.53	.28	.22	.33	.17	.27
25	2.8	.38	3.1	1.5	6.6	1.3	.57	.28	.27	.30	.21	.28
26	3.1	.27	5.3	20	4.9	19	.50	.29	.29	.30	.18	.11
27	3.2	.26	3.4	813	.89	4.5	.45	.27	.28	.32	.20	.03
28	1.2	.26	4.9	546	2.0	1.2	.66	.25	.25	.24	.15	.03
29	.66	1.9	4.8	326	---	.54	.52	.25	.24	.26	.18	.16
30	.51	.25	2.4	68	---	.44	.45	.26	.27	.33	.19	.15
31	.29	---	1.7	34	---	.47	---	.45	---	.31	.14	---
TOTAL	26.40	11.27	687.97	2030.57	338.28	569.93	31.30	26.52	7.67	8.25	7.62	6.11
MEAN	.85	.38	22.2	65.5	12.1	18.4	1.04	.86	.26	.27	.25	.20
MAX	4.2	2.2	304	813	105	193	13	6.6	.60	.35	.49	.47
MIN	0	0	.27	.27	.39	.44	.21	.25	.10	.20	.14	.03
AC-FT	52	22	1360	4030	671	1130	62	53	15	16	15	12
CAL YR 1980	TOTAL	21342.36	MEAN 58.3	MAX 3900	MIN 0	AC-FT 42330						
WTR YR 1981	TOTAL	3751.89	MEAN 10.3	MAX 813	MIN 0	AC-FT 7440						

11169500 SARATOGA CREEK AT SARATOGA, CA

LOCATION.--Lat 37°15'16", long 122°02'18", in Quito Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank on upstream side of private road bridge, 0.5 mi (0.8 km) southwest of Saratoga, and 0.7 mi (1.1 km) downstream from diversion dam.

DRAINAGE AREA.--9.22 mi² (23.88 km²).

PERIOD OF RECORD.--October 1933 to current year. Prior to October 1951, published as Campbell Creek at Saratoga.

REVISED RECORDS.--WSP 1445: 1940, 1952(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 500 ft (152 m), from topographic map. Prior to Dec. 6, 1968, at site 40 ft (12 m) downstream at different datum.

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

AVERAGE DISCHARGE (adjusted for diversion).--48 years, 9.87 ft³/s (0.280 m³/s), 7,150 acre-ft/yr (8.82 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,730 ft³/s (77.3 m³/s) Dec. 22, 1955, gage height, 6.40 ft (1.951 m) site and datum then in use, from rating curve extended above 510 ft³/s (14.4 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 161 ft³/s (4.56 m³/s) Jan. 27 (1045 hrs), gage height 4.19 ft (1.277 m), no other peak above base of 110 ft³/s (3.12 m³/s); minimum daily, 0.18 ft³/s (0.005 m³/s) several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.84	.73	1.2	1.2	9.8	6.9	4.6	.30	.35	.26	.43	.28
2	.94	.73	1.3	1.2	7.7	5.0	4.3	.35	.35	.26	.44	.28
3	.80	.73	1.7	1.3	6.2	4.0	3.6	.50	.55	.18	.47	.30
4	.74	.73	8.1	1.3	5.4	7.8	3.0	.55	.55	.30	.51	.31
5	.80	.73	2.2	1.2	4.9	7.2	2.7	.45	.35	.55	.48	.29
6	1.1	.73	1.7	1.2	4.6	4.7	2.6	.30	.26	.55	.40	.28
7	1.2	.84	1.5	1.2	4.3	4.9	2.1	.18	.26	.50	.32	.28
8	.81	.98	1.3	1.2	6.2	3.7	1.7	.26	.30	.40	.29	.32
9	.85	1.0	1.2	1.2	10	3.4	1.8	.45	.35	.40	.32	.32
10	.91	1.0	1.2	1.3	6.2	3.0	2.0	.45	.22	.50	.31	.32
11	.94	1.0	1.3	1.2	5.3	3.0	1.8	.67	.26	.51	.36	.31
12	.99	1.0	1.3	1.1	3.4	3.4	1.8	.79	.30	.57	.42	.27
13	.95	.98	1.2	1.1	2.2	22	1.6	.26	.30	.58	.36	.30
14	.93	.88	1.2	1.1	4.0	12	1.4	.40	.26	.51	.36	.31
15	.93	.88	1.2	1.2	2.4	11	1.2	.86	.26	.58	.35	.31
16	.93	.85	1.2	1.6	2.5	10	1.1	.22	.22	.64	.38	.34
17	.92	.79	1.3	1.4	2.0	7.5	1.2	.35	.22	.69	.35	.34
18	.93	.83	1.3	1.4	1.9	8.2	1.0	.45	.22	.65	.38	.30
19	.87	.86	1.3	1.4	1.8	17	1.4	.35	.18	.55	.42	.30
20	.79	.86	1.3	1.4	1.7	23	1.2	.18	.18	.51	.41	.27
21	.87	.86	1.3	1.4	1.5	44	1.0	.30	.30	.54	.36	.27
22	.86	.88	1.6	6.8	1.4	27	.67	.30	.18	.54	.30	.26
23	.82	.93	1.3	5.9	1.2	19	.50	.26	.30	.54	.32	.25
24	.79	.98	1.4	3.2	2.6	13	.45	.26	.26	.51	.35	.27
25	.90	1.0	1.3	2.3	3.6	17	.55	.26	.18	.55	.30	.35
26	.93	1.0	1.1	2.4	3.5	17	.35	.38	.18	.57	.26	.44
27	.87	1.0	1.2	69	2.0	13	.40	.30	.22	.55	.26	.66
28	.81	1.1	1.3	65	4.3	8.9	.40	.30	.22	.55	.24	.43
29	.79	1.1	1.2	47	---	7.5	.61	.22	.26	.51	.22	.40
30	.79	1.1	1.1	22	---	6.2	.61	.18	.22	.48	.26	.38
31	.79	---	1.2	14	---	5.3	---	.22	---	.45	.27	---
TOTAL	27.39	27.08	63.3	264.2	112.6	345.6	47.64	11.30	8.26	15.48	10.90	9.74
MEAN	.88	.90	2.04	8.52	4.02	11.1	1.59	.36	.28	.50	.35	.32
MAX	1.2	1.1	1.7	69	10	44	4.6	.86	.55	.69	.51	.66
MIN	.74	.73	1.1	1.1	1.2	3.0	.35	.18	.18	.18	.22	.25
AC-FT	54	54	126	524	223	685	94	22	16	31	22	19
(†)	0	0	0	0	55	103	180	108	44	0	0	0
CAL YR 1980	TOTAL	5621.04	MEAN 15.4	MAX 703	MIN .39	AC-FT 11150	† 490					
WTR YR 1981	TOTAL	943.49	MEAN 2.58	MAX 69	MIN .18	AC-FT 1870	† 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 mi² (282 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 790 ft (241 m), from topographic map. Prior to Nov. 14, 1963, at site 0.4 mi (0.6 km) downstream at different datum.

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

AVERAGE DISCHARGE.--21 years, 44.4 ft³/s (1.257 m³/s), 32,170 acre-ft/yr (39.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/s (286 m³/s) Jan. 31, 1963, gage height, 12.60 ft (3.840 m) site and datum then in use, from rating curve extended above 3,200 ft³/s (90.6 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,030 ft³/s (142 m³/s) Jan. 29 (0045 hrs), gage height, 11.31 ft (3.447 m), no other peak above base of 1,000 ft³/s (28.3 m³/s); minimum daily, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03		0	.98	65	12	30	4.5	1.4	.36	.09	
2	.03		0	.90	38	37	28	4.2	1.4	.35	.07	
3	.02		0	.90	28	38	24	4.0	1.2	.34	.07	
4	.02		0	.90	21	33	21	3.8	1.2	.34	.07	
5	.02		1.2	1.0	16	54	19	3.6	1.1	.34	.05	
6	.01		.84	1.1	13	36	18	3.5	1.0	.33	.04	
7	.01		.32	.95	11	26	17	3.3	.94	.31	.04	
8	.01		.14	.85	12	21	15	3.1	.91	.30	.03	
9	.01		.11	.80	69	17	14	3.0	.87	.29	.02	
10	.01		.11	.72	46	14	13	2.9	.82	.27	.02	
11	.01		.12	.68	32	12	12	2.7	.79	.26	.02	
12	0		.18	.64	25	11	11	2.5	.70	.26	.02	
13	0		.20	.63	20	75	11	2.4	.68	.24	.01	
14	0		.22	.64	23	102	10	2.4	.64	.22	0	
15	0		.27	.68	22	67	9.6	2.4	.60	.22	0	
16	0		.31	.71	17	99	8.9	2.3	.57	.22	0	
17	0		.36	.72	14	66	8.6	2.1	.54	.20	0	
18	0		.42	.78	12	52	9.5	2.3	.52	.19	0	
19	0		.47	.85	10	265	11	2.8	.50	.19	0	
20	0		.54	.95	8.4	244	11	2.9	.47	.16	0	
21	0		.64	.99	6.8	462	9.2	2.7	.45	.16	0	
22	0		.83	1.3	5.9	290	8.4	2.4	.43	.16	0	
23	0		1.0	7.1	5.5	151	7.7	2.2	.42	.16	0	
24	0		1.1	7.9	7.2	100	7.0	2.1	.40	.14	0	
25	0		1.1	2.8	9.1	93	6.5	1.9	.40	.14	0	
26	0		1.1	2.3	7.8	96	6.2	1.9	.39	.13	0	
27	0		.99	574	6.4	79	5.8	1.8	.38	.12	0	
28	0		.99	901	6.9	60	5.5	1.7	.36	.11	0	
29	0		1.0	1540	---	48	5.1	1.6	.37	.11	0	
30	0		1.0	330	---	41	4.8	1.5	.36	.09	0	
31	0	---	.99	128	---	34	---	1.4	---	.09	0	---
TOTAL	.18	0	16.55	3511.77	558.0	2735	367.8	81.9	20.81	6.80	.55	0
MEAN	.006	0	.53	113	19.9	88.2	12.3	2.64	.69	.22	.018	0
MAX	.03	0	1.2	1540	69	462	30	4.5	1.4	.36	.09	0
MIN	0	0	0	.63	5.5	11	4.8	1.4	.36	.09	0	0
AC-FT	.4	0	33	6970	1110	5420	730	162	41	13	1.1	0
CAL YR 1980	TOTAL	34490.78	MEAN	94.2	MAX	3540	MIN	0	AC-FT	68410		
WTR YR 1981	TOTAL	7299.36	MEAN	20.0	MAX	1540	MIN	0	AC-FT	14480		

RESERVOIRS IN COYOTE CREEK BASIN, CA

11169850 COYOTE LAKE.--Lat 37°07'06", long 121°32'55", in SE¼ sec.29, T.9 S., R.4 E., Santa Clara County, Hydrologic Unit 18050003, at center of dam on Coyote Creek, 3.8 mi (6.1 km) northeast of San Martin. DRAINAGE AREA, 120 mi² (311 km²). PERIOD OF RECORD, February 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).

Reservoir is formed by rockfill and earthfill dam completed in 1936. Capacity, 23,700 acre-ft (29.2 hm³) between elevations 693.3 ft (211.32 m), invert of outlet tunnel and 777.2 ft (236.89 m), crest of spillway. Water released down Coyote Creek for storage in Anderson Lake. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 28,120 acre-ft (34.7 hm³) Dec. 8, 1950, elevation, 782.5 ft (238.51 m); no contents at times.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 24,330 acre-ft (30.0 hm³) Mar. 8, elevation, 778.2 ft (237.19 m); minimum observed, 15,170 acre-ft (18.7 hm³) Sept. 30, elevation 762.7 ft (232.47 m).

11169920 ANDERSON LAKE.--Lat 37°09'56", long 121°37'42", in southeast corner of La Laguna Seca Grant, Santa Clara County, Hydrologic Unit 18050003, at center of dam on Coyote Creek, 2.5 mi (4.0 km) northeast of Madrone. DRAINAGE AREA, 195 mi² (505 km²). PERIOD OF RECORD, December 1950 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill and rockfill dam completed in 1950. Capacity, 91,280 acre-ft (113 hm³) between elevations 439 ft (133.8 m), invert of outlet tunnel and 625.0 ft (190.50 m), crest of spillway.

Water released down Coyote Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 95,990 acre-ft (118 hm³) Apr. 3, 1958, elevation, 628.67 ft (191.619 m), from floodmarks; no contents at times in 1960-62.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 75,910 acre-ft (93.6 hm³) Oct. 1, elevation, 611.7 ft (186.45 m); minimum observed, 55,230 acre-ft (68.1 hm³) Sept. 30, elevation, 590.65 ft (180.03 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST), AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Coyote Lake	Anderson Lake
Sept. 30, 1980.....	16380	75910
Oct. 31.....	15980	71530
Nov. 30.....	15650	69180
Dec. 31.....	15570	68210
Jan. 31, 1981.....	22470	68370
Feb. 29.....	23600	67150
Mar. 31.....	23680	72340
Apr. 30.....	23680	71130
May 31.....	23360	68130
June 30.....	20920	64960
July 31.....	18650	62450
Aug. 31.....	16630	59040
Sept. 30.....	15170	55230

11170000 COYOTE CREEK NEAR MADRONE, CA

LOCATION.--Lat 37°10'06", long 121°38'55", near southeast corner of La Laguna Seca Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank 1.2 mi (1.9 km) downstream from Anderson Dam, and 1.8 mi (2.9 km) northeast of Madrone.

DRAINAGE AREA.--196 mi² (508 km²).

PERIOD OF RECORD.--October 1902 to September 1912, December 1916 to current year. Records for water years 1917-19 incomplete, yearly estimates published in WSP 1315-B. Published as Coyote River near Madrone 1902-12, 1916-26.

REVISED RECORDS.--WSP 1345: 1932, 1935(M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 375 ft (114 m), from topographic map. Prior to Mar. 1, 1950, nonrecording gage and water-stage recorders at various sites within 1.4 mi (2.3 km) upstream at different datums.

REMARKS.--Records good. Flow regulated by Coyote (station 11169880), and Anderson (station 11169920) Lakes; water released during summer. Water is diverted to Main Avenue percolation ponds by Santa Clara Valley Water District.

AVERAGE DISCHARGE (unadjusted).--75 years, 62.5 ft³/s (1.770 m³/s), 45,280 acre-ft/yr (55.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s (708 m³/s) probably Mar. 7, 1911 (record furnished by Duryea, Haehl, and Gilman); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71 ft³/s (2.01 m³/s) Aug. 29, Aug. 31 to Sept. 3, gage height, 2.42 ft (0.738 m); minimum daily 3.1 ft³/s (0.088 m³/s) Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	57	15	22	30	25	18	25	51	63	47	67
2	60	57	10	22	29	25	18	26	54	63	47	68
3	59	50	4.5	22	29	25	18	25	54	63	49	67
4	60	39	6.4	22	29	25	18	25	55	62	53	64
5	59	39	7.5	22	29	25	18	26	57	62	57	59
6	59	37	16	22	29	25	18	29	57	59	60	59
7	60	35	17	22	28	25	18	31	58	57	61	60
8	59	35	16	22	28	25	18	32	60	57	66	60
9	59	35	12	25	28	24	18	33	56	57	67	59
10	59	35	4.4	28	28	26	18	33	55	59	67	62
11	59	35	3.1	28	28	26	18	40	55	59	66	65
12	59	35	12	28	27	26	18	42	59	59	64	65
13	59	35	21	28	28	27	18	42	61	58	64	66
14	60	25	22	28	28	26	19	42	61	57	65	64
15	59	15	22	28	28	26	28	42	61	57	65	59
16	59	16	22	28	27	26	30	42	61	57	65	59
17	59	15	22	28	26	22	30	42	61	58	65	59
18	59	15	22	28	26	17	30	43	62	59	66	59
19	59	15	22	28	26	17	30	46	62	46	67	60
20	57	15	22	28	26	17	30	48	62	36	68	61
21	47	14	23	28	26	17	29	48	62	32	67	61
22	59	15	23	28	26	17	29	48	62	30	67	61
23	60	15	22	29	26	16	29	49	63	26	68	61
24	59	15	22	29	26	16	29	48	61	22	67	64
25	59	15	22	29	26	17	28	49	62	22	67	66
26	59	13	22	23	25	18	28	48	63	22	67	66
27	59	14	22	11	25	18	28	48	63	39	67	66
28	58	14	22	19	25	18	26	48	63	59	67	66
29	58	14	22	30	---	18	25	48	63	58	68	66
30	58	14	22	30	---	18	25	48	63	59	68	66
31	58	---	22	30	---	18	---	48	---	53	68	---
TOTAL	1793	783	542.9	795	762	671	707	1244	1787	1570	1970	1885
MEAN	57.8	26.1	17.5	25.6	27.2	21.6	23.6	40.1	59.6	50.6	63.5	62.8
MAX	60	57	23	30	30	27	30	49	63	63	68	68
MIN	36	13	3.1	11	25	16	18	25	51	22	47	59
AC-FT	3560	1550	1080	1580	1510	1330	1400	2470	3540	3110	3910	3740
(†)	0	0	3	9	103	356	418	525	533	512	519	224

CAL YR 1980 TOTAL 12773.8 MEAN 34.9 MAX 72 MIN 1.4 AC-FT 25340 † 724
WTR YR 1981 TOTAL 14509.9 MEAN 39.8 MAX 68 MIN 3.1 AC-FT 28780 † 3200

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

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 mi² (55.7 km²).

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

GAGE.--Water-stage recorder. Concrete control since Sept. 12, 1963. Datum of gage is 265.30 ft (80.863 m) 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 m³).

AVERAGE DISCHARGE.--20 years, 4.83 ft³/s (0.137 m³/s), 3,500 acre-ft/yr (4.32 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,700 ft³/s (48.1 m³/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 ft³/s (10.2 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1935, 2,100 ft³/s (59.5 m³/s) Apr. 2, 1958, from information furnished by Santa Clara Valley Water District.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 90 ft³/s (2.55 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 29	0130	155	4.39	4.23	1.289
Mar. 13	0815	*571	16.1	5.20	1.585

Minimum daily discharge, 0.01 ft³/s (<0.001 m³/s) July 8-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.19	.40	.28	5.1	1.4	7.4	.84	.30	.06	.04	.35
2	.06	.19	.40	.28	3.4	1.4	6.4	.83	.28	.05	.04	.36
3	.07	.22	.77	.28	2.5	1.3	5.4	.75	.28	.04	.04	.38
4	.07	.20	1.0	.31	2.0	2.7	4.5	.74	.28	.04	.04	.42
5	.09	.21	.62	.32	1.7	3.9	4.6	.73	.26	.02	.04	.38
6	.10	.24	.55	.32	1.5	2.8	4.4	.68	.23	.02	.04	.36
7	.09	.24	.51	.29	1.4	2.3	3.7	.68	.20	.02	.04	.35
8	.08	.25	.49	.26	1.7	2.0	3.2	.62	.21	.01	.04	.35
9	.10	.25	.49	.25	3.1	1.8	3.1	.59	.20	.01	.04	.35
10	.12	.25	.49	.25	2.0	1.7	2.8	.57	.20	.01	.05	.36
11	.13	.28	.49	.24	1.7	1.6	2.5	.55	.17	.01	.06	.34
12	.13	.29	.49	.22	1.6	1.8	2.4	.51	.16	.01	.06	.36
13	.15	.27	.49	.22	1.5	145	2.2	.47	.17	.01	.06	.37
14	.17	.27	.49	.22	2.2	38	2.1	.48	.17	.01	.05	.41
15	.18	.23	.49	.23	1.9	28	1.9	.51	.14	.01	.05	.39
16	.17	.24	.49	.28	1.7	26	1.7	.51	.11	.02	.05	.29
17	.17	.22	.49	.28	1.5	17	1.8	.49	.10	.03	.07	.22
18	.17	.23	.49	.33	1.4	15	1.9	.56	.09	.04	.19	.19
19	.18	.24	.49	.36	1.4	32	3.0	.71	.09	.09	.24	.16
20	.10	.24	.53	.40	1.4	29	2.4	.50	.08	.07	.27	.15
21	.18	.25	.66	.43	1.2	35	2.0	.66	.07	.04	.29	.14
22	.18	.30	.47	1.1	1.2	26	1.8	.56	.05	.04	.30	.14
23	.16	.30	.29	1.4	1.1	18	1.6	.52	.05	.04	.34	.13
24	.17	.32	.28	.99	1.3	14	1.2	.49	.04	.05	.37	.12
25	.19	.33	.28	.84	1.6	19	1.2	.48	.06	.05	.33	.15
26	.20	.35	.28	1.2	1.5	40	1.2	.47	.06	.05	.32	.17
27	.20	.35	.28	10	1.2	25	1.0	.44	.05	.05	.31	.32
28	.20	.35	.28	37	1.4	17	1.3	.39	.06	.05	.31	.40
29	.17	.35	.28	54	---	15	1.1	.36	.06	.05	.33	.43
30	.19	.39	.28	25	---	11	.84	.31	.06	.05	.34	.42
31	.19	---	.28	9.2	---	8.8	---	.32	---	.05	.36	---
TOTAL	4.44	8.04	14.32	146.78	51.2	583.5	80.64	17.32	4.28	1.10	5.11	8.96
MEAN	.14	.27	.46	4.73	1.83	18.8	2.69	.56	.14	.036	.16	.30
MAX	.20	.39	1.0	54	5.1	145	7.4	.84	.30	.09	.37	.43
MIN.	.06	.19	.28	.22	1.1	1.3	.84	.31	.04	.01	.04	.12
AC-FT	8.8	16	28	291	102	1160	160	34	8.5	2.2	10	18
CAL YR 1980	TOTAL	2824.79	MEAN 7.72	MAX 545	MIN .06	AC-FT 5600						
WTR YR 1981	TOTAL	925.69	MEAN 2.54	MAX 145	MIN .01	AC-FT 1840						

11173200 ARROYO HONDO NEAR SAN JOSE, CA

LOCATION.--Lat 37°27'42", long 121°46'06", in NE¼NE¼ sec.32, T.5 S., R.2 E., Santa Clara County, Hydrologic Unit 18050004, on right bank 150 ft (46 m) upstream from road bridge, 3.5 mi (5.6 km) southeast of Calaveras Dam, 3.5 mi (5.6 km) northeast of city limits of San Jose.

DRAINAGE AREA.--77.1 mi² (199.7 km²).

PERIOD OF RECORD.--October 1968 to September 1981 (discontinued).

GAGE.--Waterstage 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.--13 years, 47.4 ft³/s (1.342 m³/s), 34,340 acre-ft/yr (42.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,600 ft³/s (187 m³/s) Feb. 19, 1980, gage height, 12.36 ft (3.767 m); minimum daily, 0.11 ft³/s (0.003 m³/s) July 28-30, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,160 ft³/s (118 m³/s) Jan. 29 (0315 hrs), gage height 10.66 ft (3.249 m), no other peak above base of 800 ft³/s (22.7 m³/s); minimum daily discharge, 0.35 ft³/s (0.010 m³/s) Aug. 24 to Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.87	1.3	1.9	2.6	78	22	55	10	5.1	1.2	.43	.35
2	.88	1.3	1.9	2.6	52	50	49	9.8	4.8	1.1	.42	.35
3	.98	1.3	2.6	2.6	39	46	43	9.8	4.7	1.1	.42	.35
4	.98	1.3	39	2.6	31	50	38	9.8	4.5	1.0	.41	.35
5	.99	1.5	20	2.6	25	96	34	9.6	4.2	.97	.41	.35
6	1.1	1.4	5.5	2.6	22	60	31	9.3	3.9	.90	.40	.35
7	1.1	1.4	3.6	2.6	20	43	29	9.0	3.7	.85	.40	.35
8	1.0	1.4	3.2	2.5	20	34	27	8.7	3.5	.80	.40	.35
9	.90	1.3	2.9	2.4	44	29	25	8.5	3.4	.76	.39	.35
10	.90	1.3	2.7	2.4	44	25	24	8.3	3.3	.73	.39	.35
11	.90	1.3	2.6	2.4	31	22	22	8.1	3.2	.70	.39	.35
12	.96	1.3	2.6	2.4	26	20	21	7.7	3.1	.68	.38	.35
13	1.0	1.3	2.6	2.4	23	165	20	7.5	3.1	.64	.38	.35
14	1.0	1.4	2.4	2.4	26	174	19	7.5	3.0	.61	.38	.35
15	.98	1.4	2.4	2.4	29	133	18	7.6	2.9	.58	.38	.35
16	.95	1.5	2.4	2.4	24	208	16	7.8	2.8	.57	.37	.35
17	.95	1.5	2.4	2.4	22	114	16	7.5	2.7	.56	.37	.35
18	1.0	1.5	2.4	2.8	20	85	17	7.9	2.5	.54	.37	.35
19	1.1	1.5	2.4	3.1	20	212	21	9.7	2.3	.53	.37	.35
20	1.3	1.5	2.6	3.2	20	222	19	9.3	2.2	.52	.37	.36
21	1.3	1.5	2.8	3.2	20	410	16	8.2	2.1	.51	.36	.36
22	1.3	1.8	3.1	4.0	20	273	15	7.7	1.9	.50	.36	.36
23	1.3	1.8	3.8	15	20	158	14	7.3	1.8	.49	.36	.36
24	1.3	1.8	3.5	27	20	111	13	6.9	1.7	.48	.35	.36
25	1.4	1.8	3.1	12	20	113	13	6.7	1.6	.47	.35	.36
26	1.5	1.9	2.9	8.1	20	207	11	6.7	1.5	.47	.35	.36
27	1.3	1.9	2.9	662	20	154	12	6.6	1.4	.46	.35	.36
28	1.3	1.9	2.9	1210	20	113	12	6.3	1.4	.45	.35	.37
29	1.3	1.9	2.6	1480	---	90	11	5.9	1.3	.45	.35	.37
30	1.3	1.9	2.6	374	---	75	11	5.6	1.3	.44	.35	.37
31	1.3	---	2.6	143	---	63	---	5.3	---	.43	.35	---
TOTAL	34.44	45.9	140.9	3989.7	776	3577	672	246.6	84.9	20.49	11.71	10.64
MEAN	1.11	1.53	4.55	129	27.7	115	22.4	7.95	2.83	.66	.38	.35
MAX	1.5	1.9	39	1480	78	410	55	10	5.1	1.2	.43	.37
MIN	.87	1.3	1.9	2.4	20	20	11	5.3	1.3	.43	.35	.35
AC-FT	68	91	279	7910	1540	7090	1330	489	168	41	23	21
CAL YR 1980 TOTAL	29099.58			MEAN 79.5	MAX 3470	MIN .67	AC-FT 57720					
WTR YR 1981 TOTAL	9610.28			MEAN 26.3	MAX 1480	MIN .35	AC-FT 19060					

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 mi² (105.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

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. No regulation or large diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,340 ft³/s (123 m³/s) Jan. 13, 1980, gage height, 13.40 ft (4.084 m), from rating curve extended above 76 ft³/s (2.15 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.27 ft³/s (0.008 m³/s) Oct. 14, 1979.

EXTREMES FOR CURRENT PERIOD.--Peak discharges above base of 500 ft³/s (14 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Dec. 4	0200	*922	26.1	6.14	1.871
Jan. 27	1200	878	24.9	5.99	1.826

Minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Jan. 2, 4, 8-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.5	1.8	1.2	4.1	6.9	4.0	2.5	2.5	1.8	1.7	2.6
2	1.3	1.4	1.4	1.1	3.9	3.7	3.9	3.5	1.7	1.8	1.6	1.8
3	1.5	1.4	56	1.2	3.3	3.2	3.6	2.7	1.9	1.9	1.9	1.9
4	1.7	2.0	104	1.1	3.1	9.2	3.5	2.9	2.0	2.1	1.6	1.8
5	1.5	1.7	2.4	1.5	2.8	4.2	3.5	2.5	2.0	2.0	1.6	1.8
6	1.6	1.6	1.8	1.2	2.8	3.0	4.1	2.4	2.1	1.9	2.0	1.8
7	2.1	1.7	1.6	1.2	2.6	2.6	4.2	2.5	2.1	2.0	2.0	1.9
8	3.0	2.3	1.8	1.1	12	2.4	3.7	2.5	2.3	1.7	2.0	2.3
9	2.5	1.6	1.4	1.1	12	2.7	3.6	2.6	2.5	1.8	1.8	1.9
10	1.7	1.9	1.4	1.1	3.3	2.4	3.5	2.7	2.4	1.9	2.2	1.8
11	1.5	1.4	1.3	1.9	3.3	2.6	3.1	3.1	2.5	1.8	1.9	2.4
12	2.2	1.4	1.3	1.2	2.8	6.0	3.0	2.7	2.6	1.7	2.1	2.4
13	2.2	1.4	1.3	1.6	4.5	55	3.4	2.8	2.5	2.1	2.2	1.9
14	1.7	1.4	1.3	1.3	14	4.7	3.1	2.6	2.3	1.7	2.9	2.2
15	1.7	1.4	1.7	1.2	3.1	36	2.9	2.7	2.5	1.9	2.1	1.8
16	1.7	1.2	1.4	1.3	2.9	15	2.9	2.7	2.1	1.7	2.1	1.7
17	1.8	1.7	1.4	2.3	2.9	6.3	2.9	2.8	2.1	1.7	2.4	1.6
18	1.7	1.4	1.3	1.5	2.6	13	20	15	2.2	1.7	1.8	1.5
19	1.6	1.3	1.3	1.6	2.6	31	12	3.3	1.9	1.7	1.7	1.7
20	2.2	1.4	1.3	1.5	2.4	48	3.5	3.9	2.0	2.1	1.8	1.6
21	1.6	1.5	25	1.5	2.1	58	2.5	2.2	1.9	1.7	2.1	1.9
22	1.7	4.1	6.3	16	2.2	14	2.6	1.8	2.2	1.9	1.9	1.5
23	1.7	1.8	1.6	14	3.1	7.8	2.6	1.9	1.8	1.7	1.8	1.5
24	1.8	1.9	1.3	3.0	21	5.5	2.7	1.9	1.8	1.5	2.1	1.5
25	1.8	1.4	1.3	1.6	9.1	38	2.6	1.9	1.8	1.5	1.6	2.2
26	1.8	1.6	1.3	15	3.0	21	2.4	2.2	1.9	1.6	1.7	1.4
27	1.8	1.4	1.2	296	2.6	7.7	2.6	1.7	1.9	2.1	1.7	1.4
28	2.1	1.3	1.2	221	8.8	5.4	2.3	1.6	1.9	1.5	1.9	1.7
29	1.5	1.6	1.6	115	---	6.3	2.7	1.5	2.2	1.7	1.9	1.4
30	1.7	1.3	1.2	12	---	4.8	2.7	1.5	1.8	1.7	1.9	1.4
31	1.5	---	1.2	6.0	---	4.0	---	1.8	---	1.8	2.5	---
TOTAL	55.7	49.0	230.4	728.3	142.9	430.4	120.1	88.4	63.4	55.7	60.5	54.3
MEAN	1.80	1.63	7.43	23.5	5.10	13.9	4.00	2.85	2.11	1.80	1.95	1.81
MAX	3.0	4.1	104	296	21	58	20	15	2.6	2.1	2.9	2.6
MIN	1.3	1.2	1.2	1.1	2.1	2.4	2.3	1.5	1.7	1.5	1.6	1.4
AC-FT	110	97	457	1440	283	854	238	175	126	110	120	108
CAL YR 1980	TOTAL	9096.7	MEAN	24.9	MAX	1490	MIN	1.2	AC-FT	18040		
WTR YR 1981	TOTAL	2079.1	MEAN	5.70	MAX	296	MIN	1.1	AC-FT	4120		

11174600 ALAMO CANAL NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1975 to current year.
 CHEMICAL ANALYSES: Water year 1975 to current year.
 SPECIFIC CONDUCTANCE: October 1979 to current year.

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

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

REMARKS.--Difference between specific conductance recorder values before adjustment and field measurement values exceeded ± 10 percent at times during the year.

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

EXTREMES FOR PERIOD OF RECORD.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,980 micromhos Oct. 17, 1979; minimum recorded 172 micromhos Feb. 19, 1980.

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,600 micromhos Oct. 30; minimum recorded 206 micromhos Mar. 15.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 01...	1600	1.3	1390	27.0	420	180	99	43	130	40	2.7	3.6
DEC 03...	1700	75	325	13.5	87	22	21	8.4	31	42	1.4	3.9
JAN 22...	1100	1.2	1390	13.0	460	140	110	46	130	38	2.6	1.9
MAR 05...	1100	4.1	1000	11.0	310	75	71	31	93	40	2.3	1.4
13...	1300	17	429	--	150	44	32	18	28	28	1.0	2.2
23...	1500	8.0	1170	19.0	360	64	88	35	120	42	2.7	2.4
30...	1315	5.3	1400	18.0	460	140	110	44	130	38	2.7	1.8
MAY 21...	1300	2.5	1230	20.5	400	110	95	39	100	35	2.2	1.7
JUN 12...	1130	1.8	1480	19.0	440	130	100	46	140	41	2.9	1.7
JUL 10...	1230	2.0	1281	22.5	390	110	86	42	130	42	2.9	1.9
AUG 13...	1300	1.7	1460	18.5	380	99	84	41	130	43	3.2	2.1

DATE	ALKA- LITY LAB (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, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 01...	240	150	200	.6	23	769	798	.78	690	30	200
DEC 03...	65	39	39	.2	4.7	195	191	.91	190	120	290
JAN 22...	320	170	170	.5	15	869	841	.89	490	20	620
MAR 05...	230	130	110	.2	12	584	592	1.0	290	30	210
13...	110	38	42	.1	6.4	239	236	.73	220	40	10
23...	300	150	100	.4	20	712	702	1.1	410	50	110
30...	320	210	170	.4	15	873	879	1.0	470	20	140
MAY 21...	290	140	140	.5	17	727	711	.58	340	20	370
JUN 12...	310	170	200	.5	17	885	862	.16	570	20	230
JUL 10...	280	140	170	.5	19	803	760	.22	530	110	230
AUG 13...	280	130	180	.5	22	780	759	.13	490	28	79

ALAMEDA CREEK BASIN

11174600 ALAMO CANAL NEAR PLEASANTON, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1490	1430	1460	1540	1460	1500	1540	1200	1400			
2	1510	1420	1460	1550	1430	1510	1500	1450	1480			
3	1510	1450	1480	1540	1430	1490	---	---	---			
4	1490	1390	1460	1560	1210	1410	---	---	---			
5	1430	1350	1410	1500	1350	1440	---	---	---			
6	1450	1410	1440	1500	1400	1450	---	---	---			
7	1580	1450	1510	1520	1330	1440	---	---	---			
8	1580	1480	1520	1530	1140	1330	---	---	---			
9	1510	1480	1490	1420	1230	1280	---	---	---			
10	1480	1410	1450	1490	1180	1360	---	---	---			
11	1470	1410	1450	1530	1480	1510	---	---	---			
12	1490	1420	1450	1500	1440	1470	---	---	---			
13	1460	1340	1410	1530	1430	1480	---	---	---			
14	1480	1400	1440	1520	1460	1480	---	---	---			
15	1500	1450	1480	1530	1480	1500	---	---	---			
16	1520	1490	1510	1570	1470	1530	---	---	---			
17	1530	1430	1480	1570	1210	1420	---	---	---			
18	1500	1470	1480	1590	1500	1540	---	---	---			
19	1540	1480	1510	1530	1490	1510	---	---	---			
20	1550	1340	1450	1550	1500	1520	---	---	---			
21	1430	1350	1390	1510	1420	1480	---	---	---			
22	1430	1320	1370	1420	948	1150	---	---	---			
23	1440	1300	1380	1300	1140	1220	---	---	---			
24	1400	1250	1370	1380	1290	1330	---	---	---			
25	1490	1380	1430	1470	1340	1400	---	---	---			
26	1440	1390	1420	1440	1290	1360	---	---	---			
27	1460	1290	1400	1520	1420	1470	---	---	---			
28	1480	1160	1360	1540	1470	1500	---	---	---			
29	1570	1450	1500	1500	1380	1450	---	---	---			
30	1600	1390	1460	1520	1460	1490	---	---	---			
31	1510	1450	1480	---	---	---	---	---	---			
MONTH	1600	1160	1450	1590	948	1430	---	---	---			

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	1140	1070	1100	1410	1270	1370
2				---	---	---	1160	1080	1110	1390	1050	1290
3				---	---	---	1180	1100	1150	1370	1160	1320
4				---	---	---	1190	1110	1150	1370	1100	1260
5				---	---	---	1210	1100	1150	1340	1270	1310
6				---	---	---	1200	1020	1120	1440	1330	1370
7				---	---	---	1170	1090	1120	1430	1320	1380
8				---	---	---	1130	1060	1090	1450	1350	1390
9				---	---	---	1140	1080	1110	1400	1320	1360
10				---	---	---	1130	1010	1060	1410	1320	1360
11				---	---	---	1160	1080	1130	1440	1130	1310
12				---	---	---	1230	1100	1150	1400	1310	1360
13				570	210	357	1140	1050	1100	1380	1310	1350
14				870	588	731	1130	1040	1090	1430	1350	1390
15				926	206	575	1160	1110	1140	1440	1350	1400
16				770	390	590	1130	1080	1110	1420	1350	1380
17				930	784	846	1130	1050	1090	1440	1360	1390
18				---	---	---	---	---	---	1410	608	1040
19				---	---	---	---	---	---	1050	770	946
20				---	---	---	---	---	---	1130	824	1000
21				---	---	---	---	---	---	1240	824	1070
22				---	---	---	---	---	---	1330	1220	1260
23				---	---	---	---	---	---	1300	1210	1240
24				---	---	---	---	---	---	1300	1230	1260
25				1420	228	654	---	---	---	1350	1280	1300
26				780	320	557	---	---	---	1350	1150	1280
27				984	780	893	---	---	---	1400	1250	1340
28				1090	984	1030	1490	1390	1440	1370	1320	1340
29				1140	826	1020	1550	1330	1440	1500	1330	1420
30				1040	936	979	1400	1270	1360	1400	1310	1370
31				1110	1040	1080	---	---	---	1340	1290	1320
MONTH				---	---	---	---	---	---	1500	608	1300

ALAMEDA CREEK BASIN

11176000 ARROYO MOCHO NEAR LIVERMORE, CA

LOCATION.--Lat 37°37'35", long 121°42'13", in NW¼SE¼ sec.36, T.3 S., R.2 E., Alameda County, Hydrologic Unit 18050004, on right bank 40 ft (12 m) downstream from Mines Road bridge, 2.4 mi (3.9 km) upstream from small right-bank tributary, and 5.2 mi (8.4 km) southeast of Livermore.

DRAINAGE AREA.--38.2 mi² (98.9 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1912 to September 1930, October 1963 to current year. Records for water year 1914 incomplete, yearly estimate and monthly discharge only for some months, published in WSP 1315-B.

GAGE.--Water-stage recorder. Concrete control since Aug. 5, 1964 (ineffective due to gravel fill). Datum of gage is 746.49 ft (227.530 m) National Geodetic Vertical Datum of 1929. 1912 to October 1914 at present site at different datum. November 1914 to Sept. 30, 1930, at site 1 mi (2 km) upstream at different datum.

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

AVERAGE DISCHARGE.--36 years, 4.27 ft³/s (0.121 m³/s), 3,090 acre-ft/yr (3.81 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 1,680 ft³/s (47.6 m³/s) Mar. 5, 1978, gage height, 7.66 ft (2.335 m), from rating curve extended above 270 ft³/s (7.65 m³/s); maximum daily discharge, 1,000 ft³/s (28.3 m³/s) Jan. 25, 1914 (estimated); no flow for parts of most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, discharge 1,880 ft³/s (53.2 m³/s), by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 146 ft³/s (4.13 m³/s) Jan. 29 (0515 hrs), gage height 4.52 ft (1.378 m), no other peak above base of 90 ft³/s (2.55 m³/s); minimum daily, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.03	.03	.60	3.9	1.2	2.2	.29	.11	.01		
2	.01	.03	.09	.60	2.7	3.2	1.6	.29	.13	.01		
3	.01	.03	.19	.60	2.0	3.2	1.4	.29	.11	.01		
4	.01	.03	.23	.60	1.6	2.4	1.4	.29	.10	.01		
5	.01	.03	.82	.60	1.3	3.3	1.1	.24	.09	.01		
6	.01	.03	.65	.56	1.1	2.8	.96	.25	.08	0		
7	.01	.03	.52	.60	1.1	2.1	.87	.26	.07	0		
8	.01	.03	.44	.60	1.1	1.7	.83	.22	.08	0		
9	.01	.03	.40	.60	1.8	1.6	.76	.20	.07	0		
10	.01	.03	.35	.54	1.6	1.4	.72	.19	.06	0		
11	.01	.03	.35	.51	1.3	1.3	.66	.19	.07	0		
12	.01	.03	.33	.44	1.1	1.5	.51	.19	.06	0		
13	.01	.03	.32	.47	.98	5.7	.54	.17	.06	0		
14	.01	.03	.29	.43	1.1	5.7	.58	.15	.06	0		
15	.01	.03	.31	.42	1.3	3.9	.55	.15	.06	0		
16	.02	.03	.31	.38	1.3	5.3	.53	.15	.06	0		
17	.02	.03	.29	.41	1.1	4.3	.52	.16	.05	0		
18	.02	.03	.29	.39	1.0	3.3	.66	.15	.05	0		
19	.02	.03	.29	.40	.97	7.2	1.1	.15	.05	0		
20	.02	.03	.29	.35	.97	9.5	1.2	.13	.04	0		
21	.02	.03	.34	.32	.85	14	.93	.13	.04	0		
22	.02	.03	.43	.40	.83	13	.78	.13	.04	0		
23	.02	.03	.47	.51	.81	7.0	.65	.15	.03	0		
24	.02	.03	.51	.69	.90	4.7	.59	.16	.03	0		
25	.02	.03	.54	.75	1.3	3.8	.56	.15	.02	0		
26	.02	.03	.59	.60	1.4	6.7	.56	.15	.02	0		
27	.02	.03	.51	5.2	1.3	5.9	.54	.15	.02	0		
28	.02	.03	.51	19	1.1	3.6	.52	.14	.01	0		
29	.02	.03	.51	45	---	2.7	.43	.12	.01	0		
30	.02	.03	.51	12	---	2.3	.34	.12	.01	0		
31	.03	---	.55	6.0	---	2.2	---	.12	---	0		
TOTAL	.48	.90	12.26	100.57	37.81	136.5	24.59	5.63	1.69	.05	0	0
MEAN	.016	.030	.40	3.24	1.35	4.40	.82	.18	.056	.002	0	0
MAX	.03	.03	.82	45	3.9	14	2.2	.29	.13	.01	0	0
MIN	.01	.03	.03	.32	.81	1.2	.34	.12	.01	0	0	0
AC-FT	1.0	1.8	24	199	75	271	49	11	3.4	.10	0	0
CAL YR 1980	TOTAL	2607.86	MEAN	7.13	MAX	542	MIN	.01	AC-FT	5170		
WTR YR 1981	TOTAL	320.48	MEAN	.88	MAX	45	MIN	0	AC-FT	636		

11176000 ARROYO MOCHO NEAR LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

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

CHEMICAL ANALYSES: December 1979 to current year.

SPECIFIC CONDUCTANCE: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1979 to current year.

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,750 micromhos Oct. 15, Nov. 18, 19, 1980; minimum recorded, 183 micromhos Feb. 21, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,750 micromhos Oct. 15, Nov. 18, 19; minimum recorded, 484 micromhos March 21, 22.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
MAR												
13...	1100	7.8	780	--	390	42	35	74	32	15	.7	2.3
23...	1100	7.4	--	14.0	290	25	29	54	28	17	.7	2.3
30...	1100	2.3	747	15.0	350	25	31	65	34	18	.8	2.3
MAY												
21...	1000	.16	1150	15.0	510	44	49	95	55	19	1.1	2.9
JUN												
12...	0830	.10	1295	16.0	600	68	58	110	60	18	1.1	3.6

DATE	ALKA- LINITY LAB (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, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MAR											
13...	350	54	26	.2	7.9	436	443	.07	610	60	10
23...	270	54	22	.2	7.9	368	361	.15	530	20	7
30...	320	56	31	.2	8.4	425	421	.01	620	<10	4
MAY											
21...	470	70	54	.1	14	632	625	.35	970	<10	20
JUN											
12...	530	86	79	.1	15	737	734	.55	1100	10	30

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

ALAMEDA CREEK BASIN

11176000 ARROYO MOCHO NEAR LIVERMORE, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1590	1530	1570	1710	1680	1700	1660	1660	1660	1080	1070	1070
2	1590	1560	1580	1710	1680	1700	1660	1650	1660	1070	1050	1060
3	1610	997	1530	1730	1700	1710	1650	1020	1540	1050	1050	1050
4	---	---	---	1730	1700	1710	1590	1430	1540	1050	1050	1050
5	---	---	---	1710	1700	1710	1350	1220	1230	1050	1050	1050
6	---	---	---	1730	1700	1710	1270	1220	1230	1050	1050	1050
7	---	---	---	1730	1700	1710	1270	1240	1260	1050	1040	1040
8	---	---	---	1730	1700	1710	1290	1270	1280	1040	1040	1040
9	---	---	---	1710	1700	1710	1290	1280	1280	1040	1030	1040
10	---	---	---	1710	1700	1710	1290	1280	1280	1040	1030	1030
11	---	---	---	1710	1700	1710	1280	1270	1270	1040	1030	1030
12	---	---	---	1710	1700	1700	1270	1260	1260	1040	1030	1030
13	---	---	---	1710	1700	1700	1270	1250	1260	1040	1030	1030
14	---	---	---	1710	1700	1710	1250	1230	1240	1040	1030	1030
15	1750	1700	1720	1710	1700	1710	1230	1220	1230	1040	1030	1030
16	1730	1700	1720	1710	1700	1700	1230	1200	1210	1040	1030	1030
17	1730	1700	1720	1730	1700	1700	1210	1200	1200	1040	1030	1030
18	1730	1700	1720	1750	1700	1730	1200	1180	1190	1030	1030	1030
19	1730	1700	1720	1750	1730	1730	1180	1170	1180	1030	1030	1030
20	1730	1710	1720	1730	1730	1730	1170	1160	1160	1030	1020	1030
21	1730	1710	1720	1730	1710	1730	1160	1090	1150	1030	1020	1030
22	1730	1710	1720	1730	1710	1730	1170	1140	1140	1050	1000	1030
23	1730	1700	1710	1730	1710	1710	1150	1110	1130	1040	892	1010
24	1730	1700	1710	1710	1700	1710	1110	1100	1110	1020	983	998
25	1710	1700	1710	1710	1700	1700	1100	1100	1100	990	983	987
26	1730	1700	1710	1700	1680	1700	1100	1100	1100	990	892	978
27	1710	1700	1700	1700	1680	1680	1100	1090	1100	---	---	---
28	1710	1700	1700	1680	1680	1680	1100	1090	1090	---	---	---
29	1710	1680	1700	1680	1660	1680	1090	1090	1090	---	---	---
30	1710	1680	1700	1680	1660	1660	1090	1080	1090	---	---	---
31	1710	1680	1700	---	---	---	1080	1070	1080	---	---	---
MONTH	---	---	---	1750	1660	1710	1660	1020	1240	1080	892	1030

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	765	752	759	995	975	983
2	---	---	---	---	---	---	782	748	771	995	975	985
3	---	---	---	---	---	---	796	778	787	1010	974	993
4	---	---	---	---	---	---	805	791	797	1010	993	1000
5	---	---	---	---	---	---	814	800	808	1030	1010	1020
6	---	---	---	---	---	---	819	810	817	1040	1010	1020
7	---	---	---	---	---	---	834	819	825	1050	1020	1040
8	---	---	---	---	---	---	838	829	833	1060	1030	1040
9	---	---	---	---	---	---	843	834	839	1060	1040	1050
10	---	---	---	---	---	---	854	838	847	1080	1050	1060
11	---	---	---	---	---	---	865	848	854	1090	1060	1070
12	---	---	---	---	---	---	909	854	867	1080	1010	1040
13	---	---	---	---	---	---	970	870	883	1040	1020	1030
14	---	---	---	---	---	---	892	876	884	1040	1020	1030
15	---	---	---	---	---	---	898	881	890	1050	1020	1030
16	---	---	---	---	---	---	903	887	896	1050	1040	940
17	---	---	---	---	---	---	909	898	903	1060	1040	945
18	---	---	---	---	---	---	903	876	897	1060	1060	1060
19	---	---	---	---	---	---	887	854	873	1070	1070	1070
20	---	---	---	---	---	---	881	865	872	1090	1070	1080
21	---	---	---	676	484	592	898	876	888	1090	1070	1080
22	---	---	---	560	484	523	915	892	903	1100	1080	1090
23	---	---	---	624	563	594	927	909	915	1110	1090	1100
24	---	---	---	656	627	643	927	915	920	1120	1100	1100
25	---	---	---	669	653	657	927	915	920	1130	1110	1120
26	---	---	---	666	615	638	933	915	922	1140	1120	1130
27	---	---	---	694	655	674	945	921	931	1150	1120	1130
28	---	---	---	716	694	707	951	933	940	1160	1130	1140
29	---	---	---	729	713	721	976	933	957	1160	1140	1150
30	---	---	---	---	---	---	990	963	977	1180	1150	1160
31	---	---	---	---	---	---	---	---	---	1190	1160	1170
MONTH	---	---	---	---	---	---	990	748	873	1190	974	1060

ALAMEDA CREEK BASIN

11176145 ARROYO LAS POSITAS AT LIVERMORE, CA

LOCATION.--Lat 37°42'00", long 121°46'22" in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on left bank 5 ft (1.5 m) upstream from North Livermore Avenue bridge, 0.6 mi (1.0 km) upstream from Cayetano Creek, and 1.3 mi (2.1 km) north of Livermore.

DRAINAGE AREA.--53.3 mi² (138.0 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with concrete control. Altitude of gage is 465 ft (142 m) from topographic map.

REMARKS.--Records good. Water from South Bay Aqueduct enters stream about 5 mi (8 km) upstream of gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 149 ft³/s (4.22 m³/s) Jan. 27, 1981, gage height, 3.20 ft (0.975 m); minimum daily discharge, 0.17 ft³/s (0.005 m³/s) Aug. 30, 1980, and Sept. 1-8, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 149 ft³/s (4.22 m³/s) Jan. 27, gage height, 3.20 ft (0.975 m), no peak above base of 300 ft³/s (8.5 m³/s); minimum daily, 0.24 ft³/s (0.007 m³/s) Oct. 1-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.46	.69	4.7	1.9	5.1	2.0	2.6	3.6	1.9	1.6	2.1
2	.24	.46	.84	5.1	1.7	2.4	4.7	2.2	1.9	1.5	2.0	1.9
3	.24	.46	.90	5.1	4.0	4.5	2.0	2.8	2.7	.66	1.9	2.1
4	.24	.46	5.7	5.1	4.4	7.8	3.5	2.2	2.1	1.3	1.7	2.1
5	.24	.46	1.3	5.2	4.3	3.9	1.8	2.7	1.9	1.5	1.6	1.9
6	.24	.46	.94	5.3	4.0	1.9	3.6	2.1	2.1	1.5	1.8	2.3
7	.24	.46	.88	5.2	4.2	1.6	1.7	2.7	2.5	1.3	1.9	2.2
8	.24	.46	.88	5.6	4.7	4.7	3.9	2.0	1.8	1.2	3.0	2.1
9	.24	.46	.83	5.6	4.8	2.3	1.7	3.4	2.2	2.3	2.7	2.1
10	.24	.46	.76	5.6	4.5	4.8	3.5	2.4	2.2	3.1	2.2	2.2
11	.24	.46	.76	6.1	5.2	2.2	1.9	3.0	2.4	3.0	2.0	2.3
12	.24	.46	.76	6.2	5.1	3.9	4.2	2.1	1.9	2.8	2.2	2.3
13	.24	.46	.72	5.9	4.9	8.6	1.4	2.6	2.4	2.6	2.0	2.5
14	.24	.46	.70	5.9	5.9	2.4	3.9	2.2	2.2	2.3	2.0	2.3
15	.24	.46	.69	7.1	5.0	5.7	1.8	2.6	2.7	2.2	2.1	2.1
16	.24	.46	.68	13	4.8	5.6	4.0	2.2	2.1	2.2	2.2	2.0
17	.24	.46	.68	14	4.6	2.4	1.9	3.0	2.2	1.8	2.1	2.1
18	.24	.46	.67	14	4.8	5.2	5.0	2.3	1.9	2.5	2.0	2.1
19	.24	.54	.66	13	4.8	11	5.0	3.6	2.1	2.6	1.9	2.2
20	.24	.56	.64	12	4.8	8.6	4.5	2.1	1.8	2.3	1.9	2.2
21	.32	.66	2.5	6.0	4.8	20	2.1	3.2	2.1	1.7	1.8	2.2
22	.42	.66	3.4	7.5	4.8	6.3	3.4	4.0	1.8	1.7	2.0	2.1
23	.42	.66	1.6	9.2	4.8	2.7	2.1	1.9	1.8	1.7	2.1	2.2
24	.42	.66	1.3	6.1	6.8	4.9	2.3	2.8	1.6	2.0	1.9	2.4
25	.42	.66	1.2	5.2	7.2	3.6	2.5	2.2	1.6	1.9	1.8	2.5
26	.42	.62	1.0	5.6	5.3	4.2	3.5	3.3	1.6	2.0	1.8	2.4
27	.42	.61	1.0	53	5.1	1.8	2.5	2.3	2.4	2.0	1.9	2.4
28	.42	.55	1.0	31	5.1	1.4	1.4	3.1	2.1	1.6	2.3	2.3
29	.42	.55	1.0	47	---	1.4	1.1	2.2	2.1	1.8	3.2	2.3
30	.42	.66	1.1	4.5	---	1.3	.94	2.8	1.6	1.7	2.6	2.2
31	.46	---	2.7	2.4	---	4.0	---	2.4	---	1.5	2.4	---
TOTAL	9.36	15.67	38.48	327.2	132.3	146.2	83.84	81.0	63.4	60.16	64.6	66.1
MEAN	.30	.52	1.24	10.6	4.73	4.72	2.79	2.61	2.11	1.94	2.08	2.20
MAX	.46	.66	5.7	53	7.2	20	5.0	4.0	3.6	3.1	3.2	2.5
MIN	.24	.46	.64	2.4	1.7	1.3	.94	1.9	1.6	.66	1.6	1.9
AC-FT	19	31	76	649	262	290	166	161	126	119	128	131

WTR YR 1981 TOTAL 1088.31 MEAN 2.98 MAX 53 MIN .24 AC-FT 2160

11176145 ARROYO LAS POSITAS AT LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: August 1980 to current year.

SPECIFIC CONDUCTANCE: August 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1980 to current year.

INSTRUMENTATION.--Water-quality monitor since August 1980.

REMARKS.--Difference between specific conductance recorder values before adjustment and field measurement values exceeded ± 10 percent at times during the year.

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

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 7,070 micromhos Oct. 21; minimum recorded, 466 micromhos Dec. 21.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (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)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
MAR												
13...	1400	6.0	1520	--	220	100	39	30	230	69	6.7	2.4
23...	1415	2.2	2600	17.5	420	110	75	56	390	67	8.3	4.2
30...	1145	1.0	3250	15.0	570	210	100	78	480	65	8.7	3.3
MAY												
21...	1030	3.9	1630	16.0	360	140	63	49	190	53	4.4	2.0
JUN												
12...	1000	1.1	--	17.5	240	54	45	32	150	57	4.2	2.9
JUL												
10...	1030	3.5	1050	19.0	210	58	37	28	140	59	4.2	2.4

11176145 ARROYO LAS POSITAS AT LIVERMORE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKA- LITY LAB (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 CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MAR											
13...	120	80	350	.3	8.7	823	823	1.5	4100	10	20
23...	310	180	550	.6	20	1470	1490	3.8	8800	70	90
30...	360	230	730	.6	19	1930	1890	5.0	10000	50	50
MAY											
21...	220	150	280	.2	15	930	895	2.5	2200	20	9
JUN											
12...	190	80	230	.2	6.4	662	663	.02	2200	10	20
JUL											
10...	150	81	210	.2	9.1	630	604	.89	2000	210	30

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1440	1270	1420	1490	1480	1490	3660	3230	3420	2120	1340	1520
2	1430	1400	1420	1510	1480	1500	5280	3520	4580	1410	1260	1310
3	1430	1390	1410	1500	1480	1490	4190	2260	3280	1270	1220	1250
4	1430	1380	1410	1490	1480	1480	5890	2120	2900	1290	1230	1250
5	1430	1410	1420	1500	1480	1490	2200	2120	2170	1360	1160	1210
6	1420	1400	1410	1730	1500	1610	2180	2040	2080	1450	1090	1150
7	1420	1390	1410	1650	1570	1600	2320	2110	2180	1110	1060	1080
8	1420	1400	1410	1710	1580	1650	2400	2320	2380	1110	1080	1100
9	1430	1400	1410	1850	1470	1740	2430	2370	2400	1130	1090	1110
10	1420	1400	1410	2050	1700	1870	2410	2040	2180	1110	1050	1060
11	1420	1400	1410	1750	1650	1690	2040	1800	1900	1060	1050	1060
12	1410	1390	1400	2060	1660	1830	1840	1700	1780	1080	1040	1060
13	1420	1400	1410	2200	1660	1980	1900	1670	1770	1070	1020	1040
14	1410	1410	1410	2010	1850	1940	2720	1830	2270	1190	1010	1100
15	1410	1370	1400	4150	1840	2720	3370	2720	3150	1190	1020	1110
16	1400	1350	1390	4820	3620	4060	4280	3370	3830	1020	758	799
17	1400	1380	1400	4720	2850	3780	3490	2480	2880	758	686	704
18	1410	1380	1390	4070	2220	2880	2480	2010	2170	699	679	689
19	1410	1390	1400	4820	3250	4070	2290	1830	1990	694	667	679
20	1400	1370	1390	4620	3400	4000	1850	1400	1710	773	667	686
21	7070	1390	2170	4770	3430	4070	3900	466	1440	1090	773	1050
22	---	---	---	3460	3050	3190	5020	1900	2930	---	---	---
23	2660	1810	2070	3870	2780	2980	1960	1780	1850	---	---	---
24	1810	1590	1670	3980	3460	3670	2160	1960	2010	---	---	---
25	1700	1450	1620	4150	3520	3870	2440	2160	2330	---	---	---
26	1670	1570	1620	4030	3310	3490	2640	2430	2550	---	---	---
27	1570	1480	1520	3980	3340	3660	2740	2480	2650	---	---	---
28	1480	1430	1450	3620	3230	3310	2740	2040	2640	980	788	906
29	1450	1410	1430	3230	2980	3070	2960	2550	2790	820	688	752
30	1480	1450	1460	3460	2980	3160	4280	2700	3800	1320	820	1060
31	1490	1480	1490	---	---	---	6300	2120	3760	1810	1320	1610
MONTH	7070	1270	1490	4820	1470	2640	6300	466	2570	2120	667	1050

ALAMEDA CREEK BASIN

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

LOCATION.--Lat 37°41'49", long 121°50'54", in Santa Rita Grant, Alameda County, Hydrologic Unit 18050004, on left bank at Santa Rita Rehabilitation Center Annex, 400 ft (122 m) downstream from El Charro Road bridge, and 2.8 mi (4.5 km) northeast of Pleasanton.

DRAINAGE AREA.--75.0 mi² (194.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1977 to current year. Records prior to October 1977 in files of Alameda County Flood Control and Water Conservation District.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 350 ft (107 m), from topographic map.

REMARKS.--Records good. Low flow affected by release flows from South Bay Aqueduct for ground-water recharge and water-quality improvement. Summer flow affected by diversions into basin above station from Arroyo Mocho Creek for irrigation.

COOPERATION.--Gage-height record and 7 discharge measurements were furnished by Alameda County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft³/s (38.2 m³/s) Feb. 19, 1980, gage height 7.28 ft (2.219 m), from rating curve extended above 830 ft³/s (23.5 m³/s); no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 164 ft³/s (4.64 m³/s) Jan. 29, gage height, 3.85 ft (1.173 m), no peak above base of 400 ft³/s (11 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	3.5	1.2	4.5	2.1	0	1.1	0	.58	1.5
2			0	3.5	.89	2.6	2.6	1.6	2.3	0	.78	1.4
3			0	3.5	2.4	2.4	2.1	.32	.48	0	.85	1.5
4			12	3.5	3.7	8.5	1.7	1.7	1.7	0	.63	1.5
5			.70	3.5	3.8	5.1	1.8	.31	.16	0	1.0	.69
6			0	3.4	3.3	1.4	1.8	1.8	1.3	0	1.2	.69
7			0	3.4	3.1	.88	1.6	.31	.09	.38	1.6	.91
8			0	3.8	5.1	2.5	1.8	1.4	1.3	.78	.99	1.7
9			0	3.8	8.5	2.3	1.9	.76	0	.87	1.5	.69
10			0	3.8	2.6	2.3	1.3	1.8	1.2	2.2	1.7	.91
11			0	3.9	4.2	2.4	1.9	.71	.03	1.2	1.1	.92
12			0	3.9	3.5	2.0	2.2	1.7	1.2	1.2	.78	.87
13			0	3.7	4.2	12	1.5	.06	.02	2.0	.88	1.0
14			0	4.0	7.2	2.2	1.6	1.6	1.1	1.6	1.7	1.7
15			0	3.5	4.2	6.5	1.7	.19	.03	1.5	.75	1.5
16			0	10	3.8	9.8	2.4	1.6	0	1.8	.90	1.3
17			0	12	3.5	2.0	2.1	.52	0	1.6	2.0	1.6
18			0	12	3.7	5.4	4.4	2.0	0	.78	1.5	1.6
19			0	12	3.6	15	9.0	1.2	0	1.3	1.4	1.1
20			0	12	3.3	12	2.7	2.1	0	2.2	.68	1.4
21			4.3	5.4	3.6	19	2.0	.50	0	1.6	.69	1.4
22			5.7	7.6	3.4	10	1.7	2.5	0	1.4	.69	1.2
23			.53	13	3.5	2.3	1.3	1.5	0	1.5	.79	1.4
24			.16	5.3	9.3	3.7	.13	.27	0	1.5	.79	1.3
25			.03	3.8	9.8	5.0	2.0	1.9	0	.81	1.5	1.1
26			0	5.6	4.7	6.0	1.1	.63	0	.94	1.4	1.6
27			0	78	4.1	1.5	2.2	2.3	0	.80	1.4	1.5
28			0	58	4.1	.80	.37	.50	0	.79	2.1	1.4
29			0	83	---	.70	.04	2.1	0	1.4	3.5	1.2
30			0	7.4	---	.58	0	.23	0	.73	3.8	1.4
31		---	2.0	2.0	---	2.0	---	2.3	---	.59	3.5	---
TOTAL	0	0	25.42	381.8	118.29	153.36	59.04	36.41	12.01	31.47	42.68	37.98
MEAN	0	0	.82	12.3	4.22	4.95	1.97	1.17	.40	1.02	1.38	1.27
MAX	0	0	12	83	9.8	19	9.0	2.5	2.3	2.2	3.8	1.7
MIN	0	0	0	2.0	.89	.58	0	0	0	0	.58	.69
AC-FT	0	0	50	757	235	304	117	72	24	62	85	75
CAL YR 1980	TOTAL	2877.12	MEAN 7.86	MAX 672	MIN 0	AC-FT 5710						
WTR YR 1981	TOTAL	898.46	MEAN 2.46	MAX 83	MIN 0	AC-FT 1780						

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: Water years 1979 to current year.

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 specific conductance recorder values before adjustment and field measurement values exceeded ± 10 percent at times during the year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 4,850 micromhos January 1, 1981; minimum recorded, 215 micromhos January 27, 1981.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 4,850 micromhos January 1; minimum recorded, 215 micromhos January 27.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
MAR												
13...	1515	14	850	--	140	56	28	16	110	63	4.1	3.1
23...	1340	2.6	1900	14.5	300	39	57	38	310	69	7.8	4.6
30...	1215	.79	2500	16.0	460	150	83	61	380	64	7.7	3.9
MAY												
21...	1145	.07	1430	18.0	270	80	47	37	180	59	4.8	2.3
JUN												
12...	1030	2.0	1340	18.0	240	62	41	34	170	60	4.8	4.0
JUL												
10...	1100	4.5	992	19.5	290	71	39	47	95	41	2.4	2.5

DATE	ALKA- LINITY LAB (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 CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MAR											
13...	80	54	160	.2	7.7	433	435	1.4	1600	130	20
23...	260	87	420	.5	16	1120	1100	2.0	6300	140	20
30...	310	180	590	.6	13	1520	1520	3.0	8200	80	10
MAY											
21...	190	100	270	.2	9.4	785	765	.68	1400	20	3
JUN											
12...	180	110	260	.3	1.0	719	731	2.7	2400	10	4
JUL											
10...	220	80	140	.2	12	559	560	2.5	1100	120	20

ALAMEDA CREEK BASIN

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---		4850	1710	3130
2							---	---		1710	1310	1440
3							---	---		1350	1240	1270
4							---	---		1310	1220	1260
5							---	---		1360	1270	1310
6							---	---		1420	1190	1270
7							---	---		1190	1140	1170
8							---	---		1150	1090	1120
9							---	---		1170	1120	1150
10							---	---		1190	1140	1170
11							---	---		1150	1080	1110
12							---	---		1100	1070	1080
13							---	---		1120	1060	1070
14							---	---		1140	1050	1080
15							---	---		1180	1100	1130
16							---	---		1150	773	943
17							---	---		796	643	706
18							---	---		727	643	675
19							---	---		687	617	646
20							---	---		662	604	627
21							---	---		969	604	676
22							---	---		1050	395	925
23							---	---		1280	427	922
24							---	---		1550	873	1340
25							---	---		1470	1330	1410
26							---	---		1330	891	1120
27							---	---		891	215	441
28							---	---		571	461	508
29							---	---		578	445	508
30							---	---		814	578	677
31							2970	2530		939	784	846
MONTH							---	---		4850	215	1060

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	820	698	756	---	---	---	4000	1710	2210	---	---	---
2	727	675	701	---	---	---	2790	1670	1820	2540	1380	---
3	838	681	755	---	---	---	2700	1460	1650	2540	1910	---
4	850	687	765	3020	760	1520	1460	1340	1410	1950	1550	1790
5	---	---	---	1370	1050	1260	2160	1180	1560	1820	1570	---
6	---	---	---	1530	1370	1460	---	---	---	1670	1350	1470
7	---	---	---	1680	1530	1570	---	---	---	1580	1390	---
8	---	---	---	3170	1680	2060	---	---	---	1700	1290	1450
9	---	---	---	3400	1490	1870	---	---	---	1670	1310	---
10	---	---	---	2000	1400	1530	---	---	---	1470	1230	1330
11	---	---	---	2630	1370	1660	---	---	---	1280	1170	1240
12	---	---	---	1600	1360	1420	---	---	---	1390	1160	1270
13	---	---	---	2670	432	931	---	---	---	1360	1340	---
14	---	---	---	1550	915	1230	---	---	---	1560	1180	1310
15	---	---	---	2110	382	1410	---	---	---	1620	1540	---
16	---	---	---	1430	550	1260	1710	1200	1360	1560	1290	1390
17	---	---	---	1820	1430	1640	2300	1220	1450	1650	1400	---
18	---	---	---	2610	905	1860	1490	436	1120	1480	1300	1380
19	---	---	---	1230	483	908	1210	411	818	1330	1080	1230
20	---	---	---	1970	636	1290	2140	1030	1540	1700	1130	1400
21	---	---	---	1400	679	1000	2410	1250	1590	1350	1230	---
22	---	---	---	1640	1160	1420	1500	1210	1340	1370	1200	1280
23	---	---	---	2030	1640	1850	2540	1500	1890	1200	970	1080
24	---	---	---	2640	2030	2220	1550	1460	---	1030	975	---
25	---	---	---	2260	800	1510	---	---	---	1370	1020	1210
26	---	---	---	1690	807	1280	---	---	---	1370	1170	1320
27	---	---	---	1820	1690	1760	---	---	---	1400	1160	1270
28	---	---	---	2340	1810	2060	---	---	---	1210	1150	---
29	---	---	---	2530	2340	2440	---	---	---	1400	1140	1270
30	---	---	---	2670	2530	2580	---	---	---	1300	1180	---
31	---	---	---	3540	2670	2870	---	---	---	1280	1110	1200
MONTH	---	---	---	3540	382	1640	---	---	---	2540	970	---

11176200 ARROYO MOCHO NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'26", long 121°52'20", in Santa Rita Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.3 mi (0.5 km) upstream from Santa Rita Road, 0.8 mi (1.3 km) downstream from Arroyo Las Positas, and 2 mi (3 km) north of Pleasanton.

DRAINAGE AREA.--142 mi² (368 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 319.51 ft (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.--19 years, 14.0 ft³/s (0.396 m³/s), 10,140 acre-ft/yr (12.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,220 ft³/s (62.9 m³/s) Feb. 19, 1980, gage height, 11.87 ft (3.618 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 374 ft³/s (10.6 m³/s) Jan. 27 (1645 hrs), gage height 9.69 ft (2.954 m³/s), no other peak above base of 250 ft³/s (7.08 m³/s); minimum daily discharge, 0.06 ft³/s (0.002 m³/s) Nov. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	6.1	12	13	23	26	13	2.8	7.7	12	4.3	3.7
2	1.4	13	9.7	16	18	22	11	7.3	6.6	3.4	4.6	4.0
3	1.3	14	18	16	16	19	13	12	7.4	1.2	4.5	4.1
4	.54	14	36	17	17	26	8.9	11	13	4.1	2.9	6.3
5	.58	11	10	15	18	20	13	11	12	4.5	2.7	5.6
6	.61	6.5	12	14	16	17	12	12	11	3.8	3.0	9.7
7	.52	8.8	13	16	18	17	14	11	11	2.2	2.9	12
8	.76	5.8	13	15	27	18	17	12	12	4.3	3.2	7.9
9	.58	11	10	15	28	19	17	11	9.1	2.8	4.2	.63
10	.76	9.8	11	26	21	17	13	14	15	3.4	3.6	.25
11	3.4	5.6	12	37	19	17	13	11	14	3.3	2.6	.31
12	.89	6.6	12	24	19	18	13	13	12	3.3	4.8	.41
13	2.5	8.6	12	23	21	38	13	11	12	3.3	4.8	.53
14	.47	8.1	19	19	22	19	15	12	13	3.2	3.8	1.1
15	1.3	11	16	14	27	38	13	10	11	1.5	3.2	.78
16	.90	15	14	27	23	29	2.9	13	12	3.3	4.1	1.0
17	.64	16	12	34	22	17	3.6	9.4	11	2.8	4.9	1.2
18	1.8	13	12	44	18	20	10	8.9	7.1	3.3	3.1	1.2
19	3.9	11	14	33	19	38	26	15	1.4	3.2	2.9	.33
20	3.2	4.5	14	31	17	37	12	11	1.9	3.3	3.2	.46
21	1.3	1.9	25	30	17	78	14	3.3	4.1	3.2	3.6	.75
22	1.3	8.2	26	31	24	48	14	4.1	3.7	1.9	3.7	.62
23	.89	16	14	36	21	23	14	6.3	6.0	3.4	7.2	.79
24	1.6	9.3	13	31	25	18	13	4.1	3.6	3.2	9.3	1.1
25	1.5	.06	17	29	19	24	16	6.2	2.8	4.2	4.2	1.4
26	5.9	.25	18	24	10	20	15	6.0	3.9	4.2	4.1	.97
27	3.2	6.5	23	180	13	18	15	4.8	1.8	3.4	4.3	.95
28	1.4	7.0	25	143	18	15	11	7.1	2.0	4.2	4.6	1.1
29	1.4	7.3	19	221	---	16	3.8	7.7	3.6	3.8	4.3	.74
30	1.6	11	11	38	---	15	4.2	7.8	6.6	4.5	6.9	.69
31	6.1	---	11	22	---	15	---	10	---	4.5	7.8	---
TOTAL	53.44	266.91	483.7	1234	556	762	373.4	285.8	238.3	112.7	133.3	70.61
MEAN	1.72	8.90	15.6	39.8	19.9	24.6	12.4	9.22	7.94	3.64	4.30	2.35
MAX	6.1	16	36	221	28	78	26	15	15	12	9.3	12
MIN	.47	.06	9.7	13	10	15	2.9	2.8	1.4	1.2	2.6	.25
AC-FT	106	529	959	2450	1100	1510	741	567	473	224	264	140
CAL YR 1980	TOTAL	7650.38	MEAN 20.9	MAX 1280	MIN 0	AC-FT 15170						
WTR YR 1981	TOTAL	4570.16	MEAN 12.5	MAX 221	MIN .06	AC-FT 9060						

11176200 ARROYO MOCHO NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1981.
 CHEMICAL ANALYSES: Water year 1981.
 SPECIFIC CONDUCTANCE: Water year 1981.

PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: October 1980 to September 1981.

INSTRUMENTATION.--Water-quality monitor since October 1980.

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

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 2,010 micromhos April 17; minimum recorded, 235 micromhos January 27.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
MAR												
13...	1130	39	646	--	190	64	38	24	61	40	1.9	2.5
23...	1430	17	960	21.0	340	83	68	42	74	32	1.7	2.3
30...	1250	15	918	19.0	370	130	67	48	60	26	1.4	2.0
APR												
10...	1100	--	930	15.0	360	89	73	43	47	22	1.1	1.9
MAY												
21...	1215	3.8	940	18.5	330	70	43	54	64	30	1.5	1.9
JUN												
12...	1100	13	1010	18.0	370	95	72	45	64	27	1.5	2.2
JUL												
01...	1100	13	--	18.0	370	96	74	44	53	24	1.2	1.9
10...	1145	4.2	847	21.5	310	85	37	54	63	30	1.5	1.8
27...	1930	7.5	880	21.5	320	85	41	54	66	31	1.9	2.1
AUG												
13...	1145	5.3	948	20.5	340	77	51	51	64	29	1.7	2.3
SEP												
24...	1130	1.7	1050	--	350	92	60	49	72	31	1.9	3.9

DATE	ALKA- LINITY LAB (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 CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MAR											
13...	130	51	89	.1	15	484	372	2.4	970	--	120
23...	260	66	130	.2	17	558	572	3.4	1200	70	20
30...	240	59	110	.2	19	522	528	4.1	610	20	8
APR											
10...	270	58	91	.2	17	518	509	3.4	510	<10	10
MAY											
21...	260	59	89	.1	13	518	495	3.1	530	20	20
JUN											
12...	270	70	120	.1	15	569	555	.74	740	<10	10
JUL											
01...	270	62	98	.1	18	584	531	3.8	530	<10	30
10...	230	67	100	.1	13	496	487	2.8	600	170	20
27...	240	57	110	.1	14	502	502	2.8	650	25	39
AUG											
13...	260	52	110	.1	17	532	516	2.6	710	13	24
SEP											
24...	260	58	130	.2	8.7	560	547	1.9	740	24	12

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

ALAMEDA CREEK BASIN

11176200 ARROYO MOCHO NEAR PLEASANTON, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	965	930	943	860	805	833	1530	935	1190
2	---	---	---	955	865	912	870	805	844	1240	975	1060
3	---	---	---	910	845	883	930	410	768	1050	930	986
4	---	---	---	885	820	857	1160	380	635	960	870	930
5	---	---	---	880	820	854	1330	850	1050	1500	900	989
6	---	---	---	895	815	864	915	855	888	1500	970	1030
7	---	---	---	930	850	897	915	815	855	1500	910	1010
8	---	---	---	915	850	888	895	825	857	920	845	888
9	---	---	---	920	855	890	900	850	877	930	865	906
10	---	---	---	890	765	849	885	835	872	910	880	898
11	---	---	---	950	830	882	880	815	858	900	850	884
12	---	---	---	925	630	837	890	840	873	905	870	885
13	---	---	---	860	710	780	905	845	882	920	870	899
14	---	---	---	885	795	846	905	825	870	935	880	912
15	---	---	---	905	775	844	915	755	852	980	910	937
16	945	905	934	815	710	784	925	755	853	995	870	934
17	960	905	943	810	745	780	925	805	880	870	820	845
18	965	910	946	810	695	771	945	870	911	825	765	804
19	965	885	931	810	700	769	960	875	917	830	775	809
20	940	865	910	870	790	834	950	845	917	845	750	815
21	935	865	905	885	795	832	945	405	810	865	770	822
22	950	885	929	870	700	800	930	570	780	915	640	845
23	955	900	936	835	800	813	980	910	951	820	660	737
24	955	920	944	890	760	822	955	870	923	895	825	854
25	960	945	953	900	825	874	930	865	905	930	865	902
26	970	890	934	890	830	868	905	835	879	950	860	930
27	940	870	911	880	805	841	935	805	863	710	235	421
28	945	870	910	845	765	811	860	800	840	750	410	549
29	960	910	941	860	790	823	935	840	880	710	315	525
30	995	925	961	865	755	826	940	905	925	920	710	820
31	1000	895	960	---	---	---	950	890	930	995	855	921
MONTH	---	---	---	965	630	842	1330	380	870	1530	235	869

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1000	815	883	975	860	888	1440	1270	1360	940	900	915
2	980	860	923	910	830	875	1340	1250	1290	1120	930	994
3	1310	955	1110	975	890	919	1420	1270	1320	985	900	941
4	1440	1030	1190	1320	995	1220	1260	1060	1170	1190	935	1050
5	1060	975	1030	1230	1170	1210	1180	1130	1160	1000	885	930
6	1040	980	1010	1230	1160	1200	1130	990	1070	1100	930	1010
7	1070	910	1000	1250	1210	1240	1110	1060	1080	990	865	929
8	930	770	880	1240	1160	1210	1050	915	1000	1040	915	967
9	940	635	817	1300	1170	1220	1130	980	1030	1030	865	926
10	1080	830	931	1170	1030	1100	1010	885	953	1030	885	966
11	1440	980	1120	1150	1040	1090	1090	1000	1040	990	885	921
12	1500	985	1050	1030	950	985	1050	855	975	1000	935	965
13	1010	890	969	990	700	850	1230	905	1030	955	890	926
14	1080	820	907	925	875	905	945	860	933	985	935	960
15	1020	895	930	920	760	869	1120	985	1030	945	870	907
16	1000	895	948	970	740	891	1230	890	1050	1020	930	959
17	990	860	920	975	930	962	2010	1140	1450	945	905	929
18	1000	950	980	1330	960	1070	1180	875	1030	1250	945	1060
19	985	960	978	---	---	---	955	625	791	970	860	926
20	995	945	970	---	---	---	1270	890	1030	1080	955	998
21	1500	915	991	---	---	---	1270	930	1070	1100	855	988
22	995	825	881	---	---	---	975	860	921	1430	965	1110
23	955	840	888	---	---	---	1100	895	979	1300	945	1050
24	975	530	835	---	---	---	945	860	899	940	860	902
25	1080	735	835	---	---	---	995	905	944	1500	915	1020
26	1150	1060	1110	---	---	---	1050	865	943	965	890	933
27	1240	970	1060	---	---	---	1050	945	1000	1370	995	1090
28	980	885	959	---	---	---	940	825	890	1050	890	934
29	---	---	---	---	---	---	960	845	920	1080	925	988
30	---	---	---	---	---	---	950	885	919	980	895	925
31	---	---	---	---	---	---	---	---	---	1010	930	968
MONTH	1500	530	968	---	---	---	2010	625	1040	1500	855	971

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 mi² (69.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to May 1919 and October 1921 to September 1930, published as "Tassajero Creek near Pleasanton," October 1978 to 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. No regulation or diversion above station.

AVERAGE DISCHARGE.--16 years, 2.31 ft³/s (0.065m³/s), 1,670 acre-ft/yr (2.06 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 750 ft³/s (21.2 m³/s) Jan. 13, 1980, gage height, 8.50 ft (2.591 m), from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of slope-area measurement at gage height 4.55 ft (1.387 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86 ft³/s (2.44 m³/s) January 27 (1915 hrs), gage height, 2.40 ft (0.732 m), no other peak above base of 75 ft³/s (2.1 m³/s); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	.23	.16	.25					
2			0	0	.15	.07	.22					
3			0	0	.10	.01	.17					
4			1.3	0	.05	.12	.12					
5			.37	0	.03	.44	.09					
6			.01	0	.02	.10	.07					
7			0	0	0	0	.07					
8			0	0	.05	0	.05					
9			0	0	.40	0	.03					
10			0	0	.10	0	.02					
11			0	0	0	0	.01					
12			0	0	0	0	.01					
13			0	0	0	.49	0					
14			0	0	.27	.54	0					
15			0	0	.13	.35	0					
16			0	0	0	3.4	0					
17			0	0	0	.53	0					
18			0	0	0	.63	.05					
19			0	0	0	3.8	.37					
20			0	0	0	6.5	.29					
21			0	0	0	9.2	.12					
22			0	0	0	3.4	.04					
23			0	0	0	1.2	0					
24			0	0	0	.65	0					
25			0	0	.11	.72	0					
26			0	0	.11	4.0	0					
27			0	8.4	0	1.3	0					
28			0	8.1	.01	.61	0					
29			0	10	---	.40	0					
30			0	1.5	---	.33	0					
31		---	0	.44	---	.29	---		---			---
TOTAL	0	0	1.68	28.44	1.76	39.24	1.98	0	0	0	0	0
MEAN	0	0	.054	.92	.063	1.27	.066	0	0	0	0	0
MAX	0	0	1.3	10	.40	9.2	.37	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	3.3	56	3.5	78	3.9	0	0	0	0	0
CAL YR 1980	TOTAL	1165.18	MEAN	3.18	MAX	147	MIN	0	AC-FT	2310		
WTR YR 1981	TOTAL	73.10	MEAN	.20	MAX	10	MIN	0	AC-FT	145		

11176300 TASSAJARA CREEK NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.
 CHEMICAL ANALYSES: Water year 1980 to current year.
 SPECIFIC CONDUCTANCE: Water years 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 specific conductance recorder values before adjustment and field measurement values exceeded ± 10 percent at times during the year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,560 micromhos Dec. 6, 1980; minimum recorded, 164 micromhos Feb. 19, 1980.

EXTREMES FOR CURRENT YEAR.--
 SPECIFIC CONDUCTANCE: Maximum recorded, 1,560 micromhos Dec. 6; minimum recorded, 614 micromhos Mar. 21.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
MAR												
13...	1200	1.6	1300	--	240	.00	39	35	190	63	5.3	3.7
23...	1345	1.2	970	18.5	270	.00	58	30	110	46	2.9	6.5
30...	1245	.40	1170	17.0	300	.00	62	36	160	53	4.0	4.0

DATE	ALKA- LITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MAR											
13...	370	110	120	.5	7.6	725	730	.08	1000	10	10
23...	290	120	74	.4	17	590	594	.68	700	40	9
30...	360	130	100	.5	8.5	731	719	.04	910	70	6

11176300 TASSAJARA CREEK NEAR PLEASANTON, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---		---	---	---
2							---	---		---	---	---
3							---	---		---	---	---
4							---	---		---	---	---
5							---	---		---	---	---
6							1560	1560		---	---	---
7							---	---		---	---	---
8							---	---		---	---	---
9							---	---		---	---	---
10							---	---		---	---	---
11							---	---		---	---	---
12							---	---		---	---	---
13							---	---		---	---	---
14							---	---		---	---	---
15							---	---		---	---	---
16							---	---		---	---	---
17							---	---		---	---	---
18							---	---		---	---	---
19							---	---		---	---	---
20							---	---		---	---	---
21							---	---		---	---	---
22							---	---		---	---	---
23							---	---		---	---	---
24							---	---		---	---	---
25							---	---		---	---	---
26							---	---		---	---	---
27							---	---		---	---	---
28							---	---		---	---	---
29							---	---		---	---	---
30							---	---		1040	787	916
31							---	---		1150	1040	1110
MONTH							---	---		---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1220	1150	1190	1010	953	1000	1300	1240	1260			
2	1290	1220	1260	1040	1010	1030	1270	1180	1230			
3	1340	1280	1310	1040	1030	---	1250	1180	1210			
4	1380	1320	1350	1030	983	---	1270	1180	1210			
5	1380	1350	1370	1070	1020	1050	1250	1170	1210			
6	1370	1360	---	1090	1070	---	1230	1170	1200			
7	---	---	---	---	---	---	1270	1170	1200			
8	1380	1360	---	---	---	---	1270	1170	1210			
9	1410	1290	1370	---	---	---	1260	1180	---			
10	1410	1390	---	---	---	---	1260	1200	---			
11	---	---	---	---	---	---	1250	1170	---			
12	---	---	---	---	---	---	1230	1200	---			
13	---	---	---	1100	1000	---	---	---	---			
14	---	---	---	1120	1090	1110	---	---	---			
15	---	---	---	1090	954	1040	---	---	---			
16	---	---	---	1050	893	980	---	---	---			
17	---	---	---	933	884	909	---	---	---			
18	---	---	---	986	933	967	---	---	---			
19	---	---	---	1290	986	1160	---	---	---			
20	---	---	---	1170	802	941	---	---	---			
21	---	---	---	843	614	729	---	---	---			
22	---	---	---	839	645	740	---	---	---			
23	---	---	---	1000	839	941	---	---	---			
24	---	---	---	1140	1000	1080	---	---	---			
25	1050	1030	1040	1190	1140	1160	---	---	---			
26	1070	1040	1060	1250	972	1120	---	---	---			
27	---	---	---	976	938	955	---	---	---			
28	953	923	---	1070	958	1020	---	---	---			
29	---	---	---	1140	1070	1120	---	---	---			
30	---	---	---	1240	1130	1180	---	---	---			
31	---	---	---	1280	1200	1240	---	---	---			
MONTH	---	---	---	1290	614	---	---	---	---			

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA

LOCATION.--Lat 37°33'41", long 121°40'58", in NE¼NE¼ sec.30, T.4 S., R.3 E., Alameda County, Hydrologic Unit 18050004, on left bank 100 ft (30 m) upstream from small left-bank tributary, 1.2 mi (1.9 km) downstream from Lang Canyon, and 9.5 mi (15.3 km) southeast of Livermore.

DRAINAGE AREA.--130 mi² (337 km²).

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. No regulation or diversion above station.

AVERAGE DISCHARGE.--18 years, 28.9 ft³/s (0.818 m³/s), 20,940 acre-ft/yr (25.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,710 ft³/s (162 m³/s) Feb. 19, 1980, gage height, 5.40 ft (1.646 m) site and datum then in use; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 685 ft³/s (19.4 m³/s) Jan. 29 (1000 hrs), gage height, 2.37 ft (0.722 m), no other peak above base of 500 ft³/s (14.2 m³/s); minimum daily, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.93	37	7.1	17	3.1	1.1			
2			0	.93	24	15	15	3.1	.84			
3			.42	1.0	17	17	14	3.1	.78			
4			4.8	1.2	13	20	12	3.1	.59			
5			2.3	.93	12	28	11	3.1	.46			
6			1.2	.90	11	22	11	3.1	.23			
7			.77	.86	9.4	16	9.8	2.9	.10			
8			.41	.91	9.7	12	9.4	2.6	.04			
9			.34	.94	16	10	8.5	2.6	0			
10			.32	.93	18	8.9	8.2	2.6	0			
11			.86	.93	16	8.2	7.8	2.9	0			
12			1.2	.93	13	8.3	7.4	2.8	0			
13			1.2	.93	12	31	7.1	2.6	0			
14			1.2	.93	12	46	6.3	2.6	0			
15			1.2	.93	11	35	5.8	2.6	0			
16			1.2	1.2	9.4	47	5.5	2.4	0			
17			1.0	1.3	8.9	31	5.3	2.2	0			
18			.99	1.3	8.0	25	6.0	2.4	0			
19			1.2	1.4	7.1	53	7.0	2.6	0			
20			1.2	1.6	6.8	74	6.8	2.8	0			
21			1.5	1.6	6.2	215	6.2	3.1	0			
22			1.9	2.0	6.2	173	5.7	2.7	0			
23			1.7	4.1	6.2	86	5.3	2.4	0			
24			1.7	4.9	7.8	54	5.0	2.1	0			
25			1.6	3.3	9.5	49	4.8	2.1	0			
26			1.5	2.8	8.7	87	4.6	1.9	0			
27			1.1	56	6.2	57	4.5	1.8	0			
28			.93	168	5.5	38	4.3	1.6	0			
29			.93	419	---	29	3.5	1.5	0			
30			.93	161	---	24	3.2	1.5	0			
31		---	.93	69	---	20	---	1.2	---			---
TOTAL	0	0	36.53	912.68	327.6	1346.5	228.0	77.1	4.14	0	0	0
MEAN	0	0	1.18	29.4	11.7	43.4	7.60	2.49	.14	0	0	0
MAX	0	0	4.8	419	37	215	17	3.1	1.1	0	0	0
MIN	0	0	0	.86	5.5	7.1	3.2	1.2	0	0	0	0
AC-FT	0	0	72	1810	650	2670	452	153	8.2	0	0	0
CAL YR 1980	TOTAL	22914.13	MEAN	62.6	MAX	3530	MIN	0	AC-FT	45450		
WTR YR 1981	TOTAL	2932.55	MEAN	8.03	MAX	419	MIN	0	AC-FT	5820		

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.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--January 1912 to September 1930, October 1957 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as Arroyo del Valle near Livermore, 1912-29.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 510.44 ft (155.582 m) National Geodetic Vertical Datum of 1929. Prior to November 1914, at site 900 ft (274 m) upstream at different datum. Nov. 1, 1914, to Sept. 30, 1930, at site 300 ft (91 m) upstream at different datum.

REMARKS.--Records good. Flow regulated by Del Valle Reservoir 1.3 mi (2.1 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm³). Water from Sacramento-San Joaquin Delta imported through South Bay Aqueduct can be pumped into Del Valle Reservoir for storage and later released into the channel for downstream percolation or returned to the South Bay Aqueduct.

AVERAGE DISCHARGE.--29 years (1912-30, 1957-68), 29.6 ft³/s (0.838 m³/s), 21,450 acre-ft/yr (26.4 hm³/yr). 13 years (1969-1981), 22.5 ft³/s (0.637 m³/s), 16,300 acre-ft/yr (20.1 hm³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s (346 m³/s) Apr. 2, 1958, gage height, 10.91 ft (3.325 m); no flow at times. Maximum discharge since construction of Del Valle Dam in 1968, 2,160 ft³/s (61.2 m³/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 ft³/s (515 m³/s), on basis of contracted-opening and slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78 ft³/s (2.21 m³/s) July 28, gage height, 3.25 ft (0.991 m); minimum daily, 0.52 ft³/s (0.015 m³/s) Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	30	44	31	.76	5.0	.59	9.4	14	13	32	68
2	11	30	29	31	.69	5.1	.57	12	14	17	33	67
3	12	31	7.3	31	.69	5.0	1.8	13	14	29	33	65
4	11	31	7.0	31	.69	3.6	6.3	12	13	28	32	65
5	12	30	6.9	31	.68	.87	6.8	12	13	28	32	65
6	11	31	6.9	31	.66	.76	6.9	12	13	28	32	65
7	11	31	6.9	31	3.0	.69	6.9	12	12	32	31	65
8	11	31	30	31	7.4	.69	11	12	12	35	31	65
9	12	32	61	31	6.9	.69	15	12	13	35	31	65
10	12	32	61	31	6.9	.69	15	13	13	35	31	66
11	12	32	61	32	6.9	.73	15	13	13	35	31	67
12	12	32	55	26	6.9	.82	15	12	13	35	32	67
13	13	37	50	20	7.2	1.1	15	12	13	35	33	67
14	13	43	50	20	7.4	.86	11	12	13	35	72	68
15	13	43	50	20	7.2	.92	6.9	12	13	35	72	68
16	13	44	50	20	6.9	.91	6.9	13	13	36	72	68
17	13	44	45	21	6.6	.91	7.2	13	13	36	73	64
18	13	44	40	21	6.2	.94	7.5	13	13	36	72	52
19	12	43	40	21	7.5	1.1	7.5	13	13	36	71	22
20	12	43	40	18	9.4	1.0	7.4	13	13	36	71	.73
21	33	43	40	12	9.2	1.0	7.4	13	12	36	71	.56
22	50	50	40	10	9.2	.91	7.4	13	12	36	71	.52
23	50	49	40	7.5	9.2	.91	7.1	13	12	35	72	.75
24	40	49	35	7.4	7.6	.90	7.3	13	13	32	72	.84
25	31	48	31	6.9	6.9	.89	7.2	14	13	32	67	10
26	31	48	31	4.9	7.0	.71	6.9	14	13	32	68	46
27	30	46	31	1.5	6.6	.59	6.9	14	13	32	71	46
28	30	46	31	1.3	5.7	.59	7.7	14	13	34	70	46
29	30	45	31	1.1	---	.59	8.6	14	13	33	68	46
30	30	44	31	.89	---	.59	8.2	14	13	33	68	46
31	30	---	31	.80	---	.59	---	14	---	33	68	---
TOTAL	625	1182	1113.0	583.29	161.97	40.65	244.96	395.4	388	1003	1683	1442.40
MEAN	20.2	39.4	35.9	18.8	5.78	1.31	8.17	12.8	12.9	32.4	54.3	48.1
MAX	50	50	61	32	9.4	5.1	15	14	14	36	73	68
MIN	11	30	6.9	.80	.66	.59	.57	9.4	12	13	31	.52
AC-FT	1240	2340	2210	1160	321	81	486	784	770	1990	3340	2860
CAL YR 1980	TOTAL	18429.93	MEAN	50.4	MAX	2040	MIN	.23	AC-FT	36560		
WTR YR 1981	TOTAL	8862.67	MEAN	24.3	MAX	73	MIN	.52	AC-FT	17580		

11176500 ARROYO VALLE NEAR LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1959 to December 1978, 1981.

CHEMICAL ANALYSES: Water years 1953, 1959-66, 1981.

WATER TEMPERATURES: Water years 1960-61, 1963 to December 1978.

SEDIMENT RECORDS: Water years 1963-67.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1959 to September 1961, October 1962 to December 1978.

SEDIMENT RECORDS: October 1962 to September 1967.

COOPERATION.--Water-quality analyses furnished by Alameda County Flood Control and Water Conservation District, Zone 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
MAR												
13...	1400	1.1	668	--	280	123	59	33	67	34	1.7	2.8
23...	1245	.90	970	13.5	320	130	68	37	78	34	1.9	2.8
30...	1500	.60	950	17.0	330	140	70	38	83	35	2.0	2.9
AUG												
13...	0945	32	430	16.0	150	25	30	17	32	32	1.3	2.4

DATE	ALKA- LINEITY LAB (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)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MAR											
13...	160	160	73	.1	5.9	515	499	.05	720	490	100
23...	190	190	82	.2	16	590	589	.03	880	20	100
30...	190	220	85	.2	17	628	632	.02	970	40	80
AUG											
13...	120	45	39	.1	12	261	251	.16	180	13	31

11176600 ARROYO VALLE AT PLEASANTON, CA

LOCATION.--Lat 37°40'02", long 121°53'02", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.6 mi (1.0 km) northwest of Pleasanton City Hall, and 320 ft (98 m) downstream from Hopyard Road bridge.

DRAINAGE AREA.--171 mi² (443 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Concrete control since Sept. 2, 1970. Datum of gage is 311.80 ft (95.037 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records excellent. Flow regulated by Del Valle Reservoir 10 mi (16 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm³). Water imported from Sacramento-San Joaquin Delta (see REMARKS for station 11176500). Flow affected by pumping and gravel operations above station.

AVERAGE DISCHARGE.--11 years (1958-68), 27.7 ft³/s (0.784 m³/s), 20,050 acre-ft/yr (24.7 hm³/yr); 13 years (1969-81), 17.3 ft³/s (0.490 m³/s), 12,530 acre-ft/yr (15.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft³/s (320 m³/s) Apr. 3, 1958, gage height, 25.36 ft (7.730 m); no flow at times in most years. Maximum discharge since construction of Del Valle Dam in 1968, 2,320 ft³/s (65.7 m³/s) Feb. 21, 1980, gage height, 13.41 ft (4.087 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71 ft³/s (2.01 m³/s) Jan. 28, gage height, 8.30 ft (2.530 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	19	41	31	3.1	1.3	0	0	2.3	.38	20	53
2	2.6	19	41	31	1.8	1.6	0	0	2.6	.41	20	53
3	1.6	19	34	31	1.1	1.0	0	0	2.3	.52	20	53
4	1.2	19	22	31	.53	1.3	0	0	2.1	2.8	20	53
5	.87	20	11	29	.18	.80	0	1.5	1.9	7.2	20	53
6	.69	21	8.0	26	.04	.73	0	2.1	1.7	8.4	19	53
7	.76	21	6.5	29	0	1.0	0	2.4	1.4	9.3	19	53
8	.65	21	5.8	28	.19	.13	0	2.5	1.3	11	19	53
9	.65	21	17	27	.63	0	0	2.6	1.4	15	19	53
10	.62	21	43	29	0	0	0	2.5	1.3	17	19	53
11	.63	21	48	31	0	0	0	2.5	1.3	19	19	55
12	.73	21	50	29	0	0	0	2.5	1.4	20	20	56
13	.92	21	45	21	0	1.5	0	2.3	1.3	21	20	56
14	1.0	25	42	16	0	0	0	2.4	1.2	21	23	56
15	1.2	29	42	14	0	.34	0	2.4	1.2	21	44	56
16	1.3	30	42	14	0	.05	.21	2.3	1.1	22	52	56
17	1.5	31	41	13	0	0	.34	2.4	.92	22	54	57
18	1.5	31	36	13	0	.05	.41	2.8	.83	23	54	52
19	1.5	31	32	13	0	2.8	.89	2.9	.79	23	55	47
20	1.3	31	32	13	0	3.1	.64	3.1	.66	23	55	26
21	1.4	31	33	12	0	6.5	.44	3.2	.47	23	55	10
22	7.2	33	33	11	0	1.2	.10	3.2	.21	23	55	4.3
23	25	38	32	11	.64	.67	.02	2.8	.06	23	55	1.6
24	31	39	32	7.9	3.7	.36	0	3.0	0	22	56	.27
25	27	39	29	6.2	4.0	1.8	0	2.8	0	20	55	0
26	20	39	27	7.0	2.2	.29	0	2.9	.09	19	52	0
27	19	40	27	27	2.8	0	0	2.8	.05	18	53	7.6
28	19	40	26	28	3.1	0	0	3.1	0	18	54	25
29	19	41	26	21	---	0	0	2.8	.04	20	54	30
30	19	41	27	9.8	---	0	0	2.5	.28	20	53	32
31	19	---	29	5.6	---	0	---	2.5	---	20	53	---
TOTAL	231.82	853	960.3	615.5	24.01	26.52	3.05	70.8	30.20	513.01	1186	1157.77
MEAN	7.48	28.4	31.0	19.9	.86	.86	.10	2.28	1.01	16.5	38.3	38.6
MAX	31	41	50	31	4.0	6.5	.89	3.2	2.6	23	56	57
MIN	.62	19	5.8	5.6	0	0	0	0	0	.38	19	0
AC-FT	460	1690	1900	1220	48	53	6.0	140	60	1020	2350	2300
CAL YR 1980	TOTAL	15744.44	MEAN	43.0	MAX	2140	MIN	0	AC-FT	31230		
WTR YR 1981	TOTAL	5671.98	MEAN	15.5	MAX	57	MIN	0	AC-FT	11250		

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.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 736 micromhos Mar. 30, 1976; minimum recorded, 82 micromhos Mar. 2, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 598 micromhos Sept. 16; minimum recorded, 162 micromhos Jan. 27.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT 01...	1515	4.0	384	8.2	23.5	130	7.0	26	15	29	33	1.1
DEC 03...	1600	--	315	--	13.5	89	7.0	19	10	26	38	1.2
JAN 22...	1200	9.6	365	--	12.0	110	21	25	12	27	34	1.1
MAR 05...	1000	.86	380	--	11.0	120	56	26	13	28	33	1.1
13...	1300	.32	428	--	--	160	46	38	15	41	36	1.4
23...	1615	.70	470	--	16.0	160	37	35	17	33	31	1.1
30...	1415	3.0	384	--	16.5	140	29	31	15	31	32	1.1
MAY 21...	1445	3.0	470	--	19.5	160	39	34	18	36	33	1.2
JUN 12...	1300	2.5	450	--	20.5	140	20	28	17	36	35	1.3
JUL 10...	1400	18	446	--	25.0	150	37	29	18	36	34	1.3
AUG 13...	1415	20	460	--	23.5	150	24	32	18	34	32	1.3

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 01...	2.3	120	35	36	.2	6.9	216	223	.00	170	10	4
DEC 03...	4.2	82	24	30	.1	9.5	184	175	.46	160	260	20
JAN 22...	1.8	91	40	29	.1	11	213	203	.41	140	20	20
MAR 05...	3.3	62	73	31	.1	5.9	223	218	.14	150	30	40
13...	2.2	110	59	38	.2	15	375	280	1.1	150	110	100
23...	2.2	120	42	45	.2	6.4	258	255	.40	210	20	10
30...	1.9	110	39	33	.1	7.5	240	225	.02	160	20	7
MAY 21...	2.0	120	49	42	.1	7.5	269	261	.05	170	10	7
JUN 12...	2.1	120	53	37	.1	6.2	271	252	.00	220	20	7
JUL 10...	2.0	110	55	45	.1	9.9	283	262	.12	250	80	10
AUG 13...	2.3	130	46	40	.1	10	270	261	.01	210	20	16

ALAMEDA CREEK BASIN

11176600 ARROYO VALLE AT PLEASANTON, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	388	380	383	412	406	407	---	---	---	402	338	388
2	388	380	384	416	406	408	---	---	---	402	370	395
3	390	382	386	412	404	407	---	---	---	402	384	399
4	392	384	387	414	404	406	---	---	---	414	400	405
5	392	384	388	410	400	404	---	---	---	416	338	391
6	392	384	387	---	---	---	---	---	---	340	324	333
7	396	386	389	---	---	---	---	---	---	406	326	368
8	396	386	390	---	---	---	---	---	---	390	338	369
9	398	388	391	---	---	---	---	---	---	378	330	349
10	398	386	390	---	---	---	---	---	---	392	334	368
11	390	386	388	---	---	---	---	---	---	396	342	383
12	394	388	390	---	---	---	---	---	---	402	344	383
13	392	388	389	---	---	---	---	---	---	348	332	338
14	394	388	390	---	---	---	---	---	---	342	330	334
15	398	390	392	---	---	---	---	---	---	336	330	332
16	406	392	394	---	---	---	---	---	---	342	330	333
17	406	392	395	---	---	---	---	---	---	336	330	333
18	412	394	399	---	---	---	326	322	323	340	334	336
19	410	394	399	---	---	---	330	320	323	346	338	340
20	412	396	400	---	---	---	328	320	323	360	338	347
21	412	398	402	---	---	---	320	292	314	370	348	359
22	414	398	407	---	---	---	328	318	321	368	290	339
23	426	408	414	---	---	---	322	318	320	358	298	333
24	420	408	412	---	---	---	320	318	319	374	358	367
25	412	410	410	---	---	---	322	318	319	408	374	397
26	418	406	409	---	---	---	326	318	320	412	246	390
27	422	406	409	---	---	---	326	318	321	246	162	208
28	420	406	410	---	---	---	336	320	325	312	180	246
29	422	406	409	---	---	---	328	320	321	356	182	286
30	414	406	409	---	---	---	378	324	346	392	334	342
31	416	406	408	---	---	---	390	328	367	348	334	339
MONTH	426	380	397	---	---	---	---	---	---	416	162	349

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	348	336	340	330	282	306	---	---	---	---	---	---
2	354	336	344	372	330	358	---	---	---	---	---	---
3	360	340	348	386	370	377	---	---	---	---	---	---
4	362	346	351	378	360	370	---	---	---	---	---	---
5	348	340	346	374	344	361	---	---	---	474	442	---
6	356	342	---	384	352	368	---	---	---	530	444	462
7	---	---	---	414	382	399	---	---	---	454	440	448
8	288	224	---	394	382	387	---	---	---	456	442	449
9	292	272	277	---	---	---	---	---	---	458	444	451
10	---	---	---	---	---	---	---	---	---	460	446	451
11	---	---	---	---	---	---	---	---	---	464	446	453
12	---	---	---	---	---	---	---	---	---	466	450	456
13	---	---	---	422	264	396	---	---	---	464	452	457
14	---	---	---	---	---	---	---	---	---	462	454	457
15	---	---	---	338	190	---	---	---	---	474	456	462
16	---	---	---	380	338	---	222	196	---	470	456	462
17	---	---	---	---	---	---	276	222	249	462	454	458
18	---	---	---	340	258	---	326	276	---	456	444	452
19	---	---	---	342	216	289	324	304	316	462	450	454
20	---	---	---	338	270	304	344	322	330	478	450	460
21	---	---	---	276	218	243	382	344	362	464	450	454
22	---	---	---	432	276	368	398	378	385	458	446	452
23	370	340	---	470	428	454	402	394	---	456	448	454
24	366	284	322	484	456	469	---	---	---	452	446	449
25	350	298	321	458	330	384	---	---	---	452	444	448
26	380	350	366	338	304	311	---	---	---	470	444	453
27	426	366	380	---	---	---	---	---	---	476	446	456
28	366	276	346	---	---	---	---	---	---	470	442	450
29	---	---	---	---	---	---	---	---	---	446	440	443
30	---	---	---	---	---	---	---	---	---	448	438	442
31	---	---	---	---	---	---	---	---	---	450	438	443
MONTH	---	---	---	---	---	---	---	---	---	530	438	453

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA

LOCATION.--Lat 37°36'55", long 121°52'50", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank 0.3 mi (0.5 km) upstream from small left-bank tributary, 0.8 mi (1.3 km) downstream from highway bridge, and 3.2 mi (5.1 km) south of Pleasanton.

DRAINAGE AREA.--405 mi² (1,049 km²).

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 hm³). Water imported from Sacramento-San Joaquin Delta (see REMARKS for station 11176500). Water from South Bay Aqueduct at times imported through Vallecitos Creek 1.5 mi (2.4 km) downstream.

AVERAGE DISCHARGE.--17 years (water years 1913-19, 1921-30), 42.5 ft³/s (1.204 m³/s), 30,790 acre-ft/yr (38.0 hm³/yr); 12 years (water years 1970-81), 49.3 ft³/s (1.396 m³/s), 35,720 acre-ft/yr (44.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 9,810 ft³/s (278 m³/s) Jan. 25, 1914; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,050 ft³/s (29.7 m³/s) Jan. 27, gage height, 7.03 ft (2.143 m); minimum daily, 2.4 ft³/s (0.068 m³/s) July 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	25	52	42	38	39	20	10	13	13	24	60
2	6.8	30	51	47	33	30	15	11	13	8.0	25	57
3	4.7	31	48	46	24	22	16	15	11	2.4	25	57
4	3.7	33	223	48	25	35	13	15	13	5.4	24	59
5	2.9	31	39	45	25	29	15	14	14	9.7	23	59
6	3.2	26	31	40	24	21	16	16	14	12	22	60
7	2.7	28	28	42	24	20	16	16	13	12	23	64
8	4.5	27	27	46	36	20	18	16	13	15	22	62
9	4.5	29	29	40	60	23	19	15	13	18	24	54
10	2.5	32	56	50	26	20	16	17	14	20	24	53
11	5.4	26	62	66	25	21	16	17	15	22	23	52
12	4.7	26	64	57	24	20	14	17	13	23	24	55
13	5.2	28	58	45	27	115	16	17	12	25	25	55
14	4.9	31	59	40	47	28	16	17	13	25	26	56
15	4.0	35	59	31	30	68	17	15	13	23	43	56
16	4.1	41	55	37	28	65	8.9	18	12	25	55	56
17	3.9	42	52	46	27	25	9.6	17	13	25	59	57
18	4.7	42	49	52	23	28	19	21	10	26	58	53
19	6.8	39	47	46	23	88	46	22	5.6	25	59	45
20	7.8	35	47	42	22	98	19	22	3.4	26	59	30
21	4.8	31	77	43	21	194	17	13	5.3	26	60	14
22	6.5	40	80	53	26	80	16	12	6.9	25	62	8.1
23	25	50	47	72	27	39	17	12	6.7	26	64	3.8
24	32	50	45	42	53	24	17	11	6.0	25	70	3.0
25	29	38	44	35	40	68	17	12	3.0	23	62	3.3
26	26	37	44	39	19	48	17	12	5.3	23	59	4.4
27	24	42	44	537	19	27	17	12	3.4	23	57	5.3
28	21	44	45	464	32	23	16	13	2.6	23	61	26
29	21	46	43	453	---	22	12	14	3.0	24	61	32
30	21	49	38	91	---	22	11	11	6.6	24	60	34
31	24	---	39	48	---	19	---	14	---	24	65	---
TOTAL	328.3	1064	1682	2785	828	1381	502.5	464	289.8	626.5	1348	1233.9
MEAN	10.6	35.5	54.3	89.8	29.6	44.5	16.8	15.0	9.66	20.2	43.5	41.1
MAX	32	50	223	537	60	194	46	22	15	26	70	64
MIN	2.5	25	27	31	19	19	8.9	10	2.6	2.4	22	3.0
AC-FT	651	2110	3340	5520	1640	2740	997	920	575	1240	2670	2450
CAL YR 1980 TOTAL	35466.1			96.9	3170	MIN 2.4	AC-FT 70350					
WTR YR 1981 TOTAL	12533.0			34.3	537	MIN 2.4	AC-FT 24860					

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

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

CHEMICAL ANALYSES: Water years 1979 to current year.

SPECIFIC CONDUCTANCE: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1979 to current year.

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

REMARKS.--Differences between specific conductance recorder values before adjustment and field measurement values exceeded ± 10 percent at times during the year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,450 micromhos May 12, 1981; minimum recorded, 245 micromhos Jan. 13, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,450 micromhos May 12, 1981; minimum recorded, 355 micromhos Dec. 21.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT												
01...	1400	8.3	730	23.5	260	44	53	32	69	36	1.8	3.6
DEC												
03...	1400	51	556	11.5	180	27	33	23	46	36	1.5	3.5
JAN												
22...	1300	46	800	12.0	270	62	53	34	51	29	1.3	2.2
MAR												
05...	0800	23	860	10.5	280	79	54	35	76	37	2.0	2.3
13...	1200	124	526	--	120	39	25	15	47	45	1.8	2.0
23...	1550	39	950	14.0	360	110	71	45	77	31	1.8	2.6
30...	1400	22	960	16.0	350	95	69	42	75	32	1.8	2.3
MAY												
21...	1415	9.0	1030	20.0	350	83	72	42	79	33	1.8	2.8
JUN												
12...	1200	16	1020	19.5	360	92	69	46	68	29	1.6	2.5
JUL												
10...	1315	18	582	23.0	190	46	35	24	49	36	1.6	2.2
AUG												
13...	1330	24	640	22.5	210	44	41	27	49	33	1.6	2.4

DATE	ALKA- LINITY LAB (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)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT											
01...	220	76	100	.3	12	529	480	.30	360	10	10
DEC											
03...	150	51	50	.2	12	331	316	1.4	320	380	40
JAN											
22...	210	61	75	.2	15	442	428	2.1	530	<10	30
MAR											
05...	200	85	110	.1	14	513	508	2.3	980	120	70
13...	85	46	63	.2	7.1	266	263	1.2	720	110	50
23...	250	100	110	.3	15	569	580	1.8	910	30	60
30...	250	93	120	.2	15	588	575	1.6	830	10	40
MAY											
21...	270	90	120	.2	14	598	590	1.5	700	20	30
JUN											
12...	270	80	120	.1	15	567	564	.00	710	10	20
JUL											
10...	140	65	62	.2	11	350	334	.24	420	300	40
AUG											
13...	170	59	66	.1	11	371	359	.28	370	11	12

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

ALAMEDA CREEK BASIN

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1230	1160	1190	---	---	---	572	570	570	---	---	---
2	1210	1130	1170	---	---	---	570	568	569	---	---	---
3	1220	1140	1170	---	---	---	705	419	580	---	---	---
4	1240	1140	1180	---	---	---	579	537	558	---	---	---
5	1220	1170	1190	743	686	715	614	579	599	---	---	---
6	1210	1160	1180	761	738	750	640	614	627	---	---	---
7	1190	1140	1170	775	756	766	658	640	650	---	---	---
8	1180	1180	1180	771	771	771	---	---	---	---	---	---
9	1290	1180	1270	771	766	766	---	---	---	---	---	---
10	1290	1290	1290	766	758	761	---	---	---	---	---	---
11	1290	878	1260	758	745	747	---	---	---	---	---	---
12	1280	1230	1260	745	741	741	---	---	---	---	---	---
13	1230	1200	1210	741	736	737	---	---	---	---	---	---
14	1200	1180	1190	745	734	741	---	---	---	---	---	---
15	1180	1170	1180	746	740	744	---	---	---	770	763	766
16	1170	1140	1150	741	741	741	---	---	---	825	770	802
17	1140	1120	1130	741	734	736	---	---	---	825	825	825
18	1120	1120	1120	734	718	724	530	516	523	825	825	825
19	1120	1100	1110	718	694	702	566	530	553	834	825	830
20	1100	1070	1080	694	669	680	572	551	564	849	834	842
21	1070	1060	1070	669	635	649	566	355	523	865	849	861
22	1060	1050	1060	635	622	623	579	426	517	875	855	868
23	1050	867	942	622	618	618	---	---	---	868	849	860
24	867	776	813	618	613	613	---	---	---	881	868	877
25	776	719	744	613	603	606	---	---	---	891	881	886
26	719	705	708	603	594	598	---	---	---	898	875	893
27	705	697	701	594	586	588	---	---	---	---	---	---
28	697	675	686	586	582	582	---	---	---	---	---	---
29	675	660	668	582	577	577	---	---	---	---	---	---
30	660	649	655	577	572	573	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	1290	649	1060	775	572	687	---	---	---	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1030	603	884	1410	1170	1300	1230	1200	1210
2	---	---	---	966	904	920	1440	1300	1360	1250	1230	1240
3	---	---	---	1030	966	1010	1510	1250	1340	1250	1100	1160
4	---	---	---	1250	904	1040	1510	1260	1310	1140	1080	1100
5	---	---	---	1060	910	964	1310	1260	1290	1650	1140	1280
6	---	---	---	1100	1060	1080	1360	1230	1290	1880	1360	1630
7	---	---	---	1070	1040	1050	1250	1190	1230	1390	1280	1350
8	---	---	---	1050	1040	1040	1300	1150	1230	1380	1190	1270
9	---	---	---	1340	1050	1170	1260	1120	1150	1340	1200	1280
10	---	---	---	1150	1040	1090	1260	1140	1180	1430	1180	1270
11	---	---	---	1260	1040	1120	1180	1130	1150	1770	1250	1410
12	1260	1110	1150	1250	1010	1100	1260	1180	1220	2450	1220	1560
13	1140	1060	1120	1010	364	521	1290	1130	1170	---	---	---
14	1060	521	884	1000	667	923	1300	1120	1180	2400	2230	2330
15	1020	918	966	1040	440	865	1160	1090	1110	2230	2210	2220
16	999	970	982	985	549	766	1310	1160	1270	2250	2200	2220
17	1060	967	1000	1120	985	1060	1380	1310	1340	2240	2240	2240
18	1070	1000	1050	1140	1000	1130	1400	852	1340	2240	2240	2240
19	1080	1050	1060	1000	460	677	907	733	821	2220	2220	2220
20	1050	1030	1040	753	439	632	985	894	935	2220	2080	2160
21	1040	1030	1040	594	418	479	1220	985	1150	2080	2020	2040
22	1030	929	1000	755	594	698	1220	1090	1140	2020	1910	1970
23	929	898	905	852	755	797	1110	1080	1090	1910	1830	1870
24	898	551	811	945	852	903	1130	1100	1120	1830	1200	1460
25	868	551	741	1020	579	794	1100	1070	1080	1300	1200	1250
26	1140	846	963	912	690	788	1070	1070	1070	1320	1300	1310
27	1230	1130	1170	1020	912	987	1110	1060	1090	1320	1290	1300
28	1130	703	990	1080	1020	1070	1130	1100	1120	1290	1130	1190
29	---	---	---	1110	1080	1110	1160	1090	1110	1130	1090	1110
30	---	---	---	1170	1110	1150	1250	1160	1230	1100	1070	1080
31	---	---	---	1170	1150	1160	---	---	---	1110	1100	1110
MONTH	---	---	---	1340	364	935	1510	733	1180	2450	1070	1570

11177200 VALLECITOS CREEK AT SUNOL, CA

LOCATION.--Lat 37°35'42", long 121°52'51", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank at culvert on Sunol Road, 700 ft (213 m) upstream from mouth, and 0.3 mi (0.5 km) east of Sunol.

DRAINAGE AREA.--7.48 mi² (19.37 km²).

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

CHEMICAL ANALYSES: Water years 1975 to 1979.

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, 1,210 micromhos Mar. 19; minimum recorded, 243 micromhos May 4.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	610	588	600	468	456	464	590	574	585			
2	621	597	610	474	460	468	591	583	586			
3	629	611	621	511	465	485	603	471	577			
4	622	606	615	527	511	518	708	318	492			
5	618	608	613	531	527	529	741	713	729			
6	609	599	604	542	516	532	716	650	680			
7	607	595	602	546	494	524	650	632	640			
8	608	596	604	532	510	522	647	637	641			
9	612	602	607	532	522	526	642	630	635			
10	613	599	606	530	518	523	639	627	633			
11	611	599	604	532	522	525	653	641	646			
12	608	598	602	541	529	535	---	---	---			
13	610	600	606	555	487	525	---	---	---			
14	609	601	605	533	449	508	---	---	---			
15	609	595	602	529	511	520	---	---	---			
16	602	588	596	519	513	517	---	---	---			
17	610	594	604	523	511	518	---	---	---			
18	615	601	608	526	512	520	---	---	---			
19	607	597	603	536	524	530	---	---	---			
20	612	598	604	544	528	536	---	---	---			
21	606	592	600	550	534	541	---	---	---			
22	603	589	597	540	528	534	---	---	---			
23	609	595	603	535	527	531	---	---	---			
24	610	596	605	537	527	534	---	---	---			
25	604	526	573	543	533	538	---	---	---			
26	535	429	479	549	537	544	---	---	---			
27	443	431	437	559	545	551	---	---	---			
28	446	436	443	561	549	555	---	---	---			
29	454	440	448	562	546	554	---	---	---			
30	457	445	452	554	548	551	---	---	---			
31	463	451	458	---	---	---	---	---	---			
MONTH	629	429	575	562	449	525	---	---	---			

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	313	285	303
2	---	---	---	---	---	---	1120	707	919	299	277	288
3	---	---	---	---	---	---	756	724	735	284	258	267
4	1050	944	989	782	660	705	754	686	719	275	243	261
5	982	950	960	938	798	853	725	691	708	277	267	274
6	988	926	957	978	882	931	705	661	684	281	267	275
7	984	928	953	944	880	896	678	652	664	281	267	276
8	950	708	903	950	896	922	656	608	631	280	266	275
9	1190	636	883	926	872	901	729	631	662	280	266	275
10	1180	976	1050	942	884	905	795	703	742	280	266	274
11	996	942	963	948	900	924	842	758	794	282	264	274
12	---	---	---	922	682	902	856	454	589	---	---	---
13	---	---	---	868	312	667	448	402	418	---	---	---
14	---	---	---	812	728	774	427	375	400	---	---	---
15	---	---	---	810	532	710	385	351	370	---	---	---
16	---	---	---	1060	812	892	392	358	381	---	---	---
17	---	---	---	930	896	915	382	354	367	---	---	---
18	---	---	---	934	818	893	363	345	356	---	---	---
19	---	---	---	1210	666	868	553	363	460	---	---	---
20	---	---	---	1040	770	947	618	558	584	---	---	---
21	---	---	---	1050	696	892	694	320	545	---	---	---
22	---	---	---	910	806	842	323	303	314	---	---	---
23	---	---	---	906	808	853	315	297	308	---	---	---
24	---	---	---	---	---	---	311	295	305	---	---	---
25	---	---	---	---	---	---	354	298	309	---	---	---
26	---	---	---	---	---	---	552	366	470	---	---	---
27	---	---	---	---	---	---	611	557	591	---	---	---
28	---	---	---	---	---	---	657	615	642	---	---	---
29	---	---	---	---	---	---	680	308	422	---	---	---
30	---	---	---	---	---	---	334	298	315	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	1120	295	531	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	344	332	339	430	418	425	539	521	530
2	---	---	---	343	327	338	446	420	431	531	507	522
3	---	---	---	343	329	336	473	437	453	547	523	535
4	---	---	---	340	328	335	464	440	457	557	525	537
5	---	---	---	339	319	333	470	452	461	533	513	526
6	---	---	---	342	328	337	469	445	460	539	521	532
7	---	---	---	343	323	333	461	431	445	543	525	537
8	---	---	---	337	317	330	449	421	437	555	531	543
9	---	---	---	340	330	336	446	420	430	569	543	555
10	---	---	---	343	325	336	422	406	417	587	555	569
11	---	---	---	340	324	334	422	406	416	617	583	599
12	---	---	---	342	326	335	420	404	410	623	599	613
13	---	---	---	345	321	334	405	393	401	627	609	619
14	---	---	---	340	314	331	473	405	433	637	619	627
15	---	---	---	345	327	336	497	473	485	625	609	617
16	---	---	---	345	327	338	526	490	509	611	593	604
17	---	---	---	344	330	339	586	462	514	609	593	602
18	---	---	---	345	329	338	482	452	464	595	577	587
19	539	513	525	336	320	332	483	465	475	587	517	557
20	564	540	551	339	323	334	499	473	484	532	504	523
21	570	552	563	345	327	338	499	473	487	532	512	524
22	577	561	571	354	342	347	486	466	478	604	528	574
23	580	560	572	363	351	357	480	464	473	584	562	574
24	577	553	563	370	360	366	500	466	479	570	558	565
25	565	543	554	382	362	371	530	504	515	556	534	543
26	566	334	375	389	373	384	539	519	529	542	524	533
27	343	329	336	396	380	391	561	537	546	530	514	523
28	340	328	336	407	383	395	667	489	524	534	514	524
29	342	330	337	413	395	405	510	494	505	582	534	548
30	343	329	338	422	402	413	516	498	509	620	524	589
31	---	---	---	427	409	419	534	504	517	---	---	---
MONTH	---	---	---	427	314	351	667	393	470	637	504	561
YEAR	1210	243	539									

ALAMEDA CREEK BASIN

11179000 ALAMEDA CREEK NEAR NILES, CA

LOCATION.--Lat 37°35'14", long 121°57'35", in NW¼ sec.15, T.4 S., R.1 W., Alameda County, Hydrologic Unit 18050004, on right bank 0.3 mi (0.5 km) downstream from railroad bridge, and 1.2 mi (1.9 km) northeast of Niles.

DRAINAGE AREA.--633 mi² (1,639 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1891 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "at Niles Dam" 1891-1900, and as "at Sunol Glen" 1901-21.

REVISED RECORDS.--WSP 1315-B: 1921. WSP 1515: 1951-52, 1956. WSP 1565: 1945.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.65 ft (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 hm³), most of which is diverted for San Francisco water supply; since February 1965 by San Antonio Reservoir, capacity, 51,000 acre-ft (62.9 hm³); and since September 1968 by Del Valle Reservoir, 23 mi (37 km) upstream, capacity, 77,100 acre-ft (95.1 hm³). Natural flow of stream affected by water imported from Delta-Mendota Canal beginning in 1962. Other diversions from ground-water basin for irrigation of 9,000 acres (36.4 km²) above station.

AVERAGE DISCHARGE.--71 years (water years 1892-1962), 123 ft³/s (3.483 m³/s), 89,050 acre-ft/yr (110 hm³/yr); 19 years (water years 1963-81), 94.4 ft³/s (2.673 m³/s), 68,400 acre-ft/yr (84.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft³/s (821 m³/s) Dec. 23, 1955, gage height, 14.9 ft (4.54 m); minimum (water years 1892-1962), no flow at times; minimum daily (water years 1963-81), 1.4 ft³/s (0.040 m³/s) Dec. 7, 8, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,040 ft³/s (29.5 m³/s) Jan. 29, gage height, 5.12 ft (1.561 m); minimum daily, 2.8 ft³/s (0.079 m³/s) June 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	28	57	47	44	50	32	32	62	59	63	70
2	7.2	30	58	54	39	55	28	31	61	60	63	72
3	8.1	35	63	52	28	28	43	40	59	52	63	72
4	7.9	34	223	56	27	36	38	39	61	51	64	74
5	6.1	35	43	54	27	42	37	39	41	56	54	75
6	5.2	31	28	47	26	26	39	40	38	58	59	72
7	5.2	31	27	48	26	25	40	34	41	59	61	76
8	4.6	30	27	53	27	24	42	34	45	58	62	76
9	5.4	29	27	45	68	27	35	33	46	61	62	73
10	4.8	37	58	50	31	23	24	33	46	63	63	70
11	3.4	30	67	69	27	26	21	35	46	66	63	66
12	5.2	30	70	69	27	23	26	33	46	69	62	71
13	5.5	57	66	52	26	135	36	35	45	69	63	71
14	6.8	74	65	53	50	45	35	22	38	70	36	72
15	6.4	40	67	36	33	52	37	18	15	68	37	74
16	6.0	47	62	41	33	106	29	18	12	70	51	74
17	5.6	48	61	52	30	42	26	20	13	71	58	73
18	5.5	50	56	58	26	36	26	18	11	72	70	74
19	6.4	48	53	57	27	93	69	30	9.5	70	70	72
20	8.6	42	53	50	31	122	32	26	4.3	70	71	60
21	9.3	37	64	53	24	279	25	21	2.8	70	70	65
22	6.8	43	100	52	27	135	36	14	4.3	69	74	56
23	19	54	56	87	32	72	37	12	5.4	71	74	52
24	33	58	51	56	54	48	36	13	5.7	60	74	49
25	35	46	49	44	58	90	36	12	5.1	59	63	48
26	28	44	52	42	36	83	25	13	13	57	59	27
27	27	47	51	435	20	52	23	12	34	57	56	26
28	23	51	54	531	30	40	22	11	40	56	64	38
29	23	52	53	636	---	37	22	19	37	58	70	32
30	23	54	45	135	---	36	27	56	50	58	71	32
31	24	---	45	63	---	30	---	60	---	63	77	---
TOTAL	372.2	1272	1851	3177	934	1918	984	853	937.1	1950	1947	1862
MEAN	12.0	42.4	59.7	102	33.4	61.9	32.8	27.5	31.2	62.9	62.8	62.1
MAX	35	74	223	636	68	279	69	60	62	72	77	76
MIN	3.4	28	27	36	20	23	21	11	2.8	51	36	26
AC-FT	738	2520	3670	6300	1850	3800	1950	1690	1860	3870	3860	3690
CAL YR 1980	TOTAL	74444.4	MEAN 203	MAX 8180	MIN 2.2	AC-FT 147700						
WTR YR 1981	TOTAL	18057.3	MEAN 49.5	MAX 636	MIN 2.8	AC-FT 35820						

WATER-QUALITY RECORDS

SEDIMENT RECORDS: Water years 1957-73.

WATER TEMPERATURES: July 1956 to September 1973, October 1975 to September 1978.

SPECIFIC CONDUCTANCE: Maximum recorded, 1,170 micromhos Apr. 3; minimum recorded, 292 micromhos Nov. 13.

[illegible]

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	896	822	845	---	---	---	---	---	---	---	---	---
2	920	896	913	---	---	---	1160	1000	1070	---	---	---
3	924	888	906	---	---	---	1170	962	1070	---	---	---
4	986	924	968	922	874	911	988	960	969	---	---	---
5	1120	986	1050	980	920	962	994	948	971	764	718	748
6	1120	1100	1110	974	956	967	984	966	974	770	740	755
7	1110	1080	1090	976	966	971	984	932	950	778	748	765
8	1080	1070	1080	986	976	982	960	944	950	794	774	783
9	1070	1040	1060	988	968	979	964	922	943	798	786	792
10	1040	988	1000	1050	988	1010	1010	928	975	800	774	785
11	988	958	968	1060	1050	1060	1070	1010	1050	818	782	793
12	958	938	948	1060	1010	1030	1040	1010	1030	826	798	819
13	982	958	974	---	---	---	1040	966	997	832	806	825
14	974	952	966	---	---	---	966	934	950	808	790	796
15	952	866	889	---	---	---	936	904	924	836	792	806
16	934	906	919	---	---	---	904	812	840	864	836	851
17	964	934	947	918	714	832	828	808	816	880	864	876
18	980	938	961	944	918	937	810	794	800	904	880	893
19	972	940	956	970	610	833	---	---	---	914	904	909
20	980	960	971	670	520	596	---	---	---	916	898	910
21	976	958	966	688	440	499	---	---	---	930	910	923
22	982	960	971	736	508	645	---	---	---	938	912	928
23	998	980	989	818	736	776	---	---	---	946	930	940
24	---	---	---	898	818	843	---	---	---	950	934	944
25	---	---	---	1030	782	890	---	---	---	952	944	950
26	---	---	---	794	706	761	---	---	---	964	944	952
27	---	---	---	812	726	762	---	---	---	966	870	919
28	---	---	---	908	812	859	---	---	---	910	886	898
29	---	---	---	940	908	929	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	1120	822	976	---	---	---	---	---	---	---	---	---
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	534	482	499	568	552	561
2	---	---	---	---	---	---	532	486	501	564	542	555
3	---	---	---	---	---	---	525	511	517	593	559	576
4	---	---	---	---	---	---	531	513	521	597	575	583
5	---	---	---	---	---	---	532	504	513	610	592	599
6	---	---	---	---	---	---	538	522	527	609	587	595
7	---	---	---	---	---	---	554	518	545	625	605	612
8	---	---	---	---	---	---	547	517	528	646	624	632
9	---	---	---	---								

11180500 DRY CREEK AT UNION CITY, CA

LOCATION.--Lat 37°36'22", long 122°01'22", in Arroyo de la Alameda Grant, Alameda County, Hydrologic Unit 18050004, on right bank 900 ft (274 m) downstream from bridge on State Highway 238 in Decoto District in Union City, and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--9.39 mi² (24.32 km²).

PERIOD OF RECORD.--October 1916 to September 1919 (published as "near Decoto"), April 1959 to current year.

REVISED RECORDS.--WSP 2129: 1962(M), 1968(P), 1965(P). WDR CA-76-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.12 ft (25.945 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 1, 1959, at site 1.4 mi (2.3 km) downstream at different datum.

REMARKS.--Records good except those for period of no gage-height record. No regulation or diversion above station.

AVERAGE DISCHARGE.--25 years, 2.02 ft³/s (0.057 m³/s), 1,460 acre-ft/yr (1.80 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 930 ft³/s (26.3 m³/s) Oct. 13, 1962, gage height, 5.27 ft (1.606 m) from outside gage, from rating curve extended above 140 ft³/s (3.96 m³/s) on basis of slope-area measurement of maximum flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 82 ft³/s (2.32 m³/s) Mar. 21 (0945 hrs), gage height, 2.51 ft (0.765 m), no other peak above base of 40 ft³/s (1.13 m³/s); minimum daily, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	.93	.06	2.0	.01				
2			0	0	.52	.05	1.8	.01				
3			.12	0	.35	.04	1.4	0				
4			.18	0	.23	.23	1.2	0				
5			.01	0	.17	.47	.88	0				
6			0	0	.12	.36	.80	0				
7			0	0	.25	.39	.72	0				
8			0	0	.18	.25	.63	0				
9			0	0	.35	.33	.57	0				
10			0	0	.33	.47	.54	0				
11			0	0	.14	.14	.49	0				
12			0	0	.13	.25	.45	0				
13			0	0	.35	3.7	.40	0				
14			0	0	1.2	2.4	.34	0				
15			0	0	.46	3.1	.30	0				
16			0	0	.32	4.5	.32	0				
17			0	0	.25	2.7	.27	0				
18			0	0	.22	2.8	.47	0				
19			0	0	.18	10	1.8	0				
20			0	0	.22	15	2.0	0				
21			.07	0	.41	34	.47	0				
22			.02	.04	.06	14	.36	0				
23			.01	.03	.05	7.2	.26	0				
24			.01	.01	.13	4.9	.23	0				
25			0	.01	.35	9.5	.13	0				
26			0	.10	.83	7.6	.07	0				
27			0	2.4	1.1	4.5	.04	0				
28			0	4.0	.11	3.5	.03	0				
29			0	14	---	3.3	.02	0				
30			0	3.6	---	2.9	.02	0				
31		---	0	1.7	---	2.1	---	0	---			---
TOTAL	0	0	.42	25.89	9.94	140.74	19.01	.02	0	0	0	0
MEAN	0	0	.014	.84	.36	4.54	.63	.0006	0	0	0	0
MAX	0	0	.18	14	1.2	34	2.0	.01	0	0	0	0
MIN	0	0	0	0	.05	.04	.02	0	0	0	0	0
AC-FT	0	0	.8	51	20	279	38	.04	0	0	0	0
CAL YR 1980	TOTAL	1264.21	MEAN	3.45	MAX	196	MIN	0	AC-FT	2510		
WTR YR 1981	TOTAL	196.02	MEAN	.54	MAX	34	MIN	0	AC-FT	389		

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 1980.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,900 ft³/s (309 m³/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, 1,710 ft³/s (48.4 m³/s) Jan. 29, 1981, gage height, 9.08 ft (2.768 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	32	.04	.23	0	0			0
2			0	0	16	1.1	.21	0	0			0
3		131	0	9.8	13	.08	0	0	0			0
4		473	2.9	.17	1.5	.03	0	3.4				0
5		64	4.7	0	6.5	.02	0	400				0
6			17	1.8	0	.54	0	0	3.9			0
7		3.3	.69	0	.02	0	0	0	.47			0
8		.15	.78	.25	0	0	0	0	.05			0
9		.13	1.0	.96	0	0	0	0	0			0
10		5.1	1.0	.01	0	0	0	0	0			0
11		.15	5.6	0	0	0	0	0	0			0
12		0	25	0	0	0	0	0	0			0
13		0	7.5	0	231	0	0	0	0			0
14		0	1.5	1.3	72	0	0	0	0			0
15		0	.68	.03	26	0	0	0	0			0
16		0	.08	0	150	0	0	0	0			0
17		0	0	0	17	0	0	0	0			0
18		0	0	0	238	0	8.3	0	0			0
19		0	1.7	0	35	0	.20	0	0			0
20		0	3.6	0	83	0	0	0	0			0
21			.96	5.0	0	668	0	0	0			0
22		46	46	0	146	0	0	0	0			0
23		.25	61	0	0	0	0	0	0			0
24		.08	22	0	0	0	0	0	0			0
25		0	11	9.7	80	0	0	0	0			0
26		0	191	.33	64	0	0	0	0			0
27		0	779	.01	.01	0	0	0	0			7.1
28		0	1050	0	0	0	0	0	0			23
29		0	1180	---	.02	0	0	0	0			10
30		0	246	---	.13	0	0	0	0			8.3
31		---	0	66	---	.11	---	0	---			---
TOTAL	0	0	741.12	3715.53	70.56	1832.97	.57	8.50	407.82	0	0	48.4
MEAN	0	0	23.9	120	2.52	59.1	.019	.27	13.6	0	0	1.61
MAX	0	0	473	1180	32	668	.23	8.3	400	0	0	23
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	1470	7370	140	3640	1.1	17	809	0	0	96
CAL YR 1980	TOTAL	61917.79	MEAN 169	MAX 8210	MIN 0	AC-FT 122800						
WTR YR 1981	TOTAL	6825.47	MEAN 18.7	MAX 1180	MIN 0	AC-FT 13540						

LOCATION.--Lat 37°41'42", long 122°02'38", in San Lorenzo Grant, Alameda County, Hydrologic Unit 18050004, on left bank, 250 ft (76 m) south of Interstate 580, 0.4 mi (0.6 km) southeast of Independent School, 2.2 mi (3.5 km) east of Castro Valley.

WATER-DISCHARGE RECORDS

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 188 ft³/s (5.32 m³/s) Jan. 27, gage height, 2.85 ft (0.869 m), no peak above base of 275 ft³/s (7.79 m³/s); no flow for many days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.04	3.5	.54	2.2	2.1	5.2	1.1	1.1	.75	.04	0
2	.26	.07	.06	.54	1.9	1.5	4.9	1.2	1.2	.19	.05	0
3	.24	.08	6.9	.54	1.6	1.3	4.2	1.2	1.1	.12	.05	.01
4	.23	.09	8.4	.59	1.5	2.3	3.8	1.1	.99	.12	.05	.06
5	.23	2.0	.59	.60	1.3	1.5	3.6	1.2	.88	.11	.11	.01
6	.31	3.4	.50	.54	1.2	1.4	3.6	1.3	.78	.14	.11	0
7	.34	.13	.62	.56	1.2	1.3	3.5	1.0	.69	.19	.12	0
8	.24	.13	.54	.60	2.0	1.3	3.0	.97	2.1	.09	.10	0
9	.23	.07	.63	.54	2.4	1.2	2.6	1.3	3.4	.04	.07	0
10	.48	.07	.48	.53	1.5	1.1	2.5	1.0	.89	.04	.07	0
11	.79	.07	.39	.46	1.4	1.1	2.1	.90	.83	.05	.06	0
12	.99	.05	.41	.48	1.3	1.8	1.7	.76	.73	.05	.05	0
13	.79	.05	.34	.48	1.5	6.5	2.1	.87	.48	.12	.05	0
14	.41	.07	.27	.49	2.9	1.6	2.1	.88	.50	.02	.04	0
15	.47	.11	.35	.54	1.0	7.1	2.1	.88	.52	.18	.04	0
16	.04	.12	.33	.63	1.0	4.6	2.0	.92	.57	.04	.04	.01
17	.04	.12	.20	.63	1.1	2.5	2.0	.80	.94	.04	.04	.03
18	.04	.20	.51	.53	.89	4.4	3.4	1.8	1.2	.07	.04	.03
19	.04	.16	.19	.49	.79	12	3.7	1.3	.18	.05	.02	0
20	2.4	.04	.21	.54	.81	19	2.3	1.3	.18	.04	.02	0
21	2.2	.04	3.2	1.0	.82	27	2.1	1.3	.12	.04	.02	0
22	.03	.24	.73	3.5	.76	14	1.8	1.1	.12	.02	.03	0
23	.05	.09	.48	3.5	.79	8.5	1.5	1.2	.13	.02	.04	0
24	.13	.08	.53	1.5	3.3	6.3	1.5	1.1	.13	.02	.04	0
25	.28	.07	.52	1.2	1.9	15	1.5	1.2	.11	.02	.05	.01
26	.57	.08	.48	4.3	1.5	11	1.5	1.1	.12	.02	.03	.04
27	.44	.07	.47	38	1.3	7.9	1.3	1.3	.15	.02	.02	.08
28	.26	.07	.47	28	1.6	6.6	1.3	1.1	.09	.04	0	.04
29	.19	.08	.48	23	---	6.8	1.2	1.2	.66	.02	0	.02
30	.18	.14	.51	7.2	---	5.8	1.2	1.1	.72	.02	0	0
31	.04	---	.56	5.1	---	5.0	---	1.3	---	.05	0	---
TOTAL	13.20	8.03	33.85	127.15	41.46	189.5	75.3	34.78	21.61	2.74	1.40	.34
MEAN	.43	.27	1.09	4.10	1.48	6.11	2.51	1.12	.72	.088	.045	.011
MAX	2.4	3.4	8.4	38	3.3	27	5.2	1.8	3.4	.75	.12	.08
MIN	.03	.04	.06	.46	.76	1.1	1.2	.76	.09	.02	0	0
AC-FT	26	16	67	252	82	376	149	69	43	5.4	2.8	.7
WTR YR 1981	TOTAL	549.36	MEAN	1.51	MAX	38	MIN	0	AC-FT	1090		

SAN LORENZO CREEK BASIN

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR NEAR CASTRO VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1980 to September 1981 (storm season only).

WATER TEMPERATURES: October 1980 to September 1981.

SEDIMENT RECORDS: October 1980 to September 1981.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1980 to September 1981.

SEDIMENT RECORDS: October 1980 to September 1981.

REMARKS.--Zero bedload discharge observed at flows less than 2.0 ft³/s (0.06 m³/s).

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS (storm season only): Maximum daily mean, 1,230 mg/l January 27, minimum daily mean, 2 mg/l January 2-3, 5, March 3-4.

SEDIMENT DISCHARGE (storm season only): Maximum daily, 254 ton (230 metric tons) January 27; minimum daily, 0 ton (0 metric ton) several days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---		---	7.0	9.0	11.0	12.5	15.0	---		---	---
2	---		---	8.0	10.0	12.0	13.0	12.0	---		---	---
3	---		---	---	9.0	12.0	12.0	15.0	---		---	---
4	---		---	9.5	---	11.0	14.0	---	---		---	---
5	---		9.5	9.0	10.0	10.0	15.0	---	---		16.5	---
6	---		8.0	8.0	10.0	11.0	15.5	---	---		---	---
7	---		6.0	9.0	10.0	12.0	15.5	---	---		---	---
8	---		6.5	9.5	11.0	12.0	12.5	---	---		---	---
9	---		8.5	7.5	10.0	14.0	12.0	---	---		---	---
10	---		8.0	8.0	10.0	13.0	13.0	---	---		---	---
11	---		6.5	7.5	13.5	14.0	13.5	---	---		---	---
12	---		4.5	---	13.0	13.0	14.0	---	---		---	---
13	---		4.0	9.0	13.5	11.0	14.0	---	---		---	---
14	14.5		6.0	---	14.5	13.0	---	13.0	---		---	---
15	---		8.0	10.0	14.0	12.5	14.0	---	---		---	---
16	---		9.5	9.5	10.0	11.0	14.0	---	---		---	---
17	---		9.5	12.0	14.5	13.0	14.0	---	---		---	18.0
18	---		---	---	14.0	12.0	13.0	---	---		---	---
19	---		10.5	---	13.0	13.0	12.5	---	---		---	---
20	---		9.0	11.0	12.0	11.5	14.0	---	---		---	---
21	---		10.5	14.0	14.0	13.5	14.5	---	---		---	---
22	---		11.0	13.5	13.0	13.0	16.5	---	---		---	---
23	---		11.0	12.5	12.0	12.0	16.0	---	---		---	---
24	---		10.5	10.0	10.0	---	15.0	---	20.0		---	---
25	---		11.5	7.5	11.0	13.0	13.0	---	---		---	---
26	---		12.0	9.0	11.0	11.5	14.5	---	---		---	---
27	---		10.0	11.5	10.0	13.5	16.0	---	---		---	---
28	---		10.5	11.0	10.5	14.0	18.0	---	---		---	---
29	---		---	10.5	---	13.0	20.0	---	---		---	---
30	---		9.0	8.5	---	14.0	17.5	---	---		---	---
31	---		7.5	7.5	---	---	---	---	---		---	---
MEAN			8.5	9.5	11.5	12.5	14.5					

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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							3.5	68	1.3
2							.06	30	0
3							6.9	334	20
4							8.4	840	50
5							.59	248	.40
6							.50	104	.14
7							.62	57	.10
8							.54	24	.03
9							.63	37	.13
10							.48	19	.03
11							.39	10	.01
12							.41	7	.01
13							.34	14	.01
14							.27	10	.01
15							.35	17	.02
16							.33	19	.02
17							.20	10	.01
18							.51	30	.08
19							.19	12	.01
20							.21	6	0
21							3.2	122	3.4
22							.73	47	.09
23							.48	11	.01
24							.53	9	.01
25							.52	10	.01
26							.48	7	.01
27							.47	5	.01
28							.47	8	.01
29							.48	9	.01
30							.51	10	.01
31							.56	5	.01
TOTAL							33.85	---	75.89
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	.54	3	0	2.2	10	.06	2.1	41	.31
2	.54	2	0	1.9	8	.04	1.5	4	.02
3	.54	2	0	1.6	6	.03	1.3	2	.01
4	.59	3	0	1.5	6	.02	2.3	2	.01
5	.60	2	0	1.3	7	.02	1.5	40	.16
6	.54	4	.01	1.2	5	.02	1.4	7	.03
7	.56	6	.01	1.2	8	.03	1.3	5	.02
8	.60	11	.02	2.0	27	.26	1.3	5	.02
9	.54	10	.01	2.4	27	.22	1.2	6	.02
10	.53	10	.01	1.5	6	.02	1.1	8	.02
11	.46	6	.01	1.4	5	.02	1.1	7	.02
12	.48	10	.01	1.3	8	.03	1.8	27	.56
13	.48	14	.02	1.5	15	.07	6.5	164	3.8
14	.49	10	.01	2.9	180	3.1	1.6	42	.18
15	.54	8	.01	1.0	25	.07	7.1	202	8.4
16	.63	12	.02	1.0	6	.02	4.6	60	.75
17	.63	10	.02	1.1	4	.01	2.5	18	.12
18	.53	8	.01	.89	15	.04	4.4	53	1.1
19	.49	6	.01	.79	5	.01	12	249	11
20	.54	6	.01	.81	5	.01	19	385	24
21	1.0	13	.09	.82	3	.01	27	557	47
22	3.5	176	3.7	.76	3	.01	14	85	3.2
23	3.5	160	2.3	.79	3	.01	8.5	48	1.1
24	1.5	38	.15	3.3	94	1.3	6.3	35	.60
25	1.2	22	.07	1.9	30	.15	15	313	18
26	4.3	71	4.3	1.5	16	.06	11	98	2.9
27	38	1230	254	1.3	15	.05	7.9	42	.90
28	28	633	72	1.6	23	.11	6.6	32	.57
29	23	624	53	---	---	---	6.8	87	1.8
30	7.2	65	1.3	---	---	---	5.8	50	.78
31	5.1	13	.18	---	---	---	5.0	27	.36
TOTAL	127.15	---	391.28	41.46	---	5.80	189.5	---	127.76

SAN LORENZO CREEK BASIN

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR NEAR CASTRO VALLEY, CA--Continued
SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	5.2	20	.28						
2	4.9	27	.36						
3	4.2	21	.24						
4	3.8	17	.17						
5	3.6	11	.11						
6	3.6	11	.11						
7	3.5	11	.10						
8	3.0	8	.06						
9	2.6	12	.08						
10	2.5	10	.07						
11	2.1	7	.04						
12	1.7	10	.05						
13	2.1	10	.06						
14	2.1	8	.05						
15	2.1	7	.04						
16	2.0	10	.05						
17	2.0	10	.05						
18	3.4	47	.85						
19	3.7	39	.46						
20	2.3	11	.07						
21	2.1	11	.06						
22	1.8	15	.07						
23	1.5	11	.04						
24	1.5	8	.03						
25	1.5	7	.03						
26	1.5	10	.04						
27	1.3	10	.04						
28	1.3	15	.05						
29	1.2	20	.06						
30	1.2	25	.08						
31	---	---	---						
TOTAL	75.3	---	3.80						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, PERIOD DECEMBER 1980 TO APRIL 1981

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
DECEMBER 1980	33.85	75.89	9	85
JANUARY 1981	127.15	391.28	43	434
FEBRUARY	41.46	5.80	2	8
MARCH	189.50	127.79	66	194
APRIL	75.30	3.80	6	10
TOTAL	467.26	604.56	126	731

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SFDI- MENT, SUS- PENDED (MG/L)	SFDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
OCT									
14...	1300	14.5	.16	408	.18	66	81	90	94
22...	1415	16.0	.04	44	.00	--	--	--	--
NOV									
19...	1105	--	.79	40	.09	--	--	--	--
JAN									
22...	1245	13.0	10	705	19	--	62	72	82
22...	1400	--	14	448	17	50	63	76	87
27...	1030	11.5	188	5410	2750	--	36	42	55
27...	1130	--	100	3130	845	--	46	57	68
27...	1300	--	66	4390	782	--	56	67	83
27...	1500	--	47	1590	202	--	60	71	83
29...	0830	9.5	29	951	74	--	59	71	83
FEB									
25...	1215	10.5	1.8	56	.27	--	--	--	--
MAR									
04...	1145	--	5.1	153	2.1	--	--	--	--
20...	1530	11.5	20	358	19	48	58	70	85
21...	0800	11.0	35	460	43	43	54	64	76
APR									
18...	1715	13.0	5.7	215	3.3	39	59	71	87
MAY									
14...	1315	13.0	.82	32	.07	--	--	--	--

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR NEAR CASTRO VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
OCT								
14...	94	--	94	--	96	--	99	100
22...	--	--	--	--	--	--	--	--
NOV								
19...	--	--	--	--	--	--	--	--
JAN								
22...	92	--	97	--	100	--	--	--
22...	94	--	97	--	99	--	100	--
27...	66	--	75	--	86	--	97	100
27...	76	--	82	--	89	--	98	100
27...	90	--	94	--	96	--	99	100
27...	89	92	--	96	--	100	--	--
29...	93	98	--	99	--	100	--	--
FEB								
25...	--	--	93	--	100	--	--	--
MAR								
04...	--	--	96	--	97	--	99	100
20...	94	--	97	--	99	--	100	--
21...	85	--	90	--	95	--	99	100
APR								
18...	97	--	99	--	100	--	--	--
MAY								
14...	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT								
14...	1240	14.5	1	.16	31	64	91	97
14...	1242	14.5	1	.16	11	37	85	99
14...	1244	14.5	1	.16	22	59	89	97
14...	1245	14.5	1	.16	2	4	10	27
14...	1246	14.5	1	.16	2	4	8	17
14...	1248	14.5	1	.16	9	29	74	97
14...	1250	14.5	1	.16	29	50	64	74
APR								
01...	1249	13.0	1	5.4	12	28	79	92
01...	1250	13.0	1	5.4	1	1	4	14
JUN								
24...	1420	20.0	3	.20	2	5	11	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	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT							
14...	99	100	--	--	--	--	--
14...	100	--	--	--	--	--	--
14...	99	100	--	--	--	--	--
14...	39	48	62	79	94	100	--
14...	23	29	37	51	67	85	100
14...	100	--	--	--	--	--	--
14...	83	93	98	99	100	--	--
APR							
01...	95	97	98	99	100	--	--
01...	21	27	36	51	70	100	--
JUN							
24...	35	45	55	67	84	97	100

SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA

LOCATION.--Lat 37°42'55", long 122°03'12", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank 0.9 mi (1.4 km) upstream from Cull Creek Dam and 1.1 mi (1.8 km) northeast of Castro Valley Post Office.

DRAINAGE AREA.--5.79 mi² (15.00 km).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water stage recorder. Altitude of gage is 450 ft (137 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 638 ft³/s (18.1 m³/s) Jan. 13, 1980, gage height, 4.28 ft (1.305 m); minimum daily, no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 79 ft³/s (2.24 m³/s) Jan. 28, 1981, gage height, 2.07 ft (0.631 m), no peak above base of 200 ft³/s (5.7 m³/s); minimum daily discharge, no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	.05	1.6	.36	2.0	.35	.13			
2	0	0	0	.05	1.4	.38	1.6	.39	.13			
3	0	.19	.08	.05	1.1	.32	1.4	.39	.10			
4	0	0	1.3	.05	1.0	1.2	1.3	.35	.10			
5	0	.09	.72	.05	.93	.85	1.2	.34	.05			
6	0	0	1.3	.10	.95	.42	1.3	.30	.05			
7	0	.14	1.4	.20	1.0	.36	1.2	.30	.05			
8	.19	0	.94	.05	1.4	.35	1.0	.30	.05			
9	.17	0	.08	.03	1.2	.34	1.0	.30	.05			
10	.01	.13	.39	.03	.65	.30	.56	.30	.05			
11	0	0	.02	.03	.61	.32	.60	.28	.05			
12	0	0	0	.03	.49	.51	.87	.24	.03			
13	0	0	0	.03	.49	4.1	.81	.24	0			
14	0	0	0	.03	1.8	1.6	.67	.46	0			
15	0	0	0	.03	1.4	7.3	.69	.46	0			
16	0	0	0	.17	1.3	5.6	.64	.24	0			
17	0	0	0	.21	1.1	3.1	.56	.24	0			
18	0	0	0	.06	1.1	6.0	.77	.33	0			
19	0	0	0	.06	.61	9.8	1.1	.39	0			
20	0	0	0	.07	.41	11	.56	.33	0			
21	0	0	.13	.07	.33	16	.52	.30	0			
22	0	0	.67	.61	.32	6.6	.35	.28	0			
23	0	0	.19	1.7	.30	4.3	.35	.24	0			
24	0	0	.05	.57	.49	3.4	.35	.20	0			
25	.05	0	.03	.22	.44	14	.35	.20	0			
26	.04	0	.03	.29	.30	6.7	.35	.20	0			
27	0	0	.03	15	.37	4.2	.37	.13	0			
28	.13	0	.03	20	.30	3.3	.33	.13	0			
29	.14	0	.15	11	---	3.0	.24	.13	0			
30	.12	0	.21	3.4	---	2.6	.80	.13	0			
31	.02	---	.06	2.0	---	2.1	---	.13	---			---
TOTAL	.87	.55	7.81	56.24	23.39	120.41	23.84	8.60	.84	0	0	0
MEAN	.028	.018	.25	1.81	.84	3.88	.79	.28	.028	0	0	0
MAX	.19	.19	1.4	20	1.8	16	2.0	.46	.13	0	0	0
MIN	0	0	0	.03	.30	.30	.24	.13	0	0	0	0
AC-FT	1.7	1.1	15	112	46	239	47	17	1.7	0	0	0
CAL YR 1980	TOTAL	1631.44	MEAN	4.46	MAX	179	MIN	0	AC-FT	3240		
WTR YR 1981	TOTAL	242.55	MEAN	.66	MAX	20	MIN	0	AC-FT	481		

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 ft³/s (0.23 m³/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, 6,010 mg/L January 28; minimum daily mean, no flow several days.

SEDIMENT DISCHARGE (storm season only): Maximum daily, 536 tons (486 metric tons) January 28; minimum daily, 0 ton (0 metric ton) many days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	7.0	7.5	10.0	11.5					
2			---	7.0	9.5	12.0	12.0					
3			---	---	7.5	10.0	10.0					
4			---	9.0	---	10.0	12.5					
5			8.0	9.0	9.5	10.5	14.5					
6			10.5	8.5	9.0	11.5	14.0					
7			9.0	9.0	9.5	11.0	14.0					
8			9.0	8.5	10.0	13.0	11.5					
9			7.0	7.5	11.0	13.0	11.0					
10			8.5	7.0	9.5	13.0	12.0					
11			6.0	7.0	13.0	13.5	12.0					
12			---	---	12.0	12.5	13.0					
13			---	---	12.5	9.5	13.5					
14			---	---	13.5	11.0	---					
15			---	10.0	12.5	10.5	11.5					
16			---	---	9.0	9.5	13.0					
17			---	---	13.5	12.5	14.0					
18			---	---	13.0	12.0	12.0					
19			---	---	12.0	12.5	12.0					
20			---	12.0	11.0	---	13.0					
21			9.0	10.5	12.0	12.5	14.5					
22			10.0	11.5	11.0	11.5	15.5					
23			10.5	10.0	10.5	9.0	14.0					
24			10.0	9.0	8.0	13.0	15.0					
25			11.0	5.5	9.0	13.0	12.5					
26			11.5	10.0	8.0	10.0	13.0					
27			10.0	10.5	8.0	12.5	15.0					
28			10.5	10.0	10.0	13.0	16.5					
29			---	9.5	---	12.0	19.5					
30			9.0	7.5	---	13.0	17.0					
31			6.0	5.0	---	13.0	---					
MEAN			9.0	8.5	10.5	11.5	13.5					
WTR YR 1981	MEAN	11.0		MAX	19.5		MIN	5.0				

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							0	0	0
2							0	0	0
3							.08	119	.06
4							1.3	1740	13
5							.72	388	.72
6							1.3	185	.65
7							1.4	152	.57
8							.94	100	.25
9							.08	85	.07
10							.39	99	.18
11							.02	18	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							.13	383	.29
22							.67	227	.83
23							.19	9	0
24							.05	11	0
25							.03	6	0
26							.03	6	0
27							.03	5	0
28							.03	8	0
29							.15	23	.01
30							.21	17	.01
31							.06	11	0
TOTAL							7.81	---	16.64

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	.05	12	.01	1.6	7	.03	.36	15	.01
2	.05	8	0	1.4	6	.02	.38	11	.01
3	.05	6	0	1.1	4	.01	.32	8	.01
4	.05	4	0	1.0	3	.01	1.2	39	.15
5	.05	3	0	.93	3	.01	.85	11	.03
6	.10	12	.01	.95	3	.01	.42	6	.01
7	.20	15	.01	1.0	6	.02	.36	4	0
8	.05	16	0	1.4	6	.02	.35	5	0
9	.03	9	0	1.2	5	.02	.34	5	0
10	.03	5	0	.65	5	.01	.30	6	0
11	.03	11	0	.61	4	.01	.32	38	.04
12	.03	10	0	.49	3	0	.51	111	.17
13	.03	9	0	.49	3	0	4.1	602	8.6
14	.03	8	0	1.8	115	.58	1.6	32	.14
15	.03	7	0	1.4	6	.02	7.3	1120	41
16	.17	27	.02	1.3	4	.01	5.6	221	5.0
17	.21	16	.01	1.1	3	.01	3.1	22	.18
18	.06	14	0	1.1	5	.01	6.0	278	10
19	.06	12	0	.61	4	.01	9.8	806	36
20	.07	9	0	.41	4	0	11	1140	53
21	.07	10	0	.33	4	0	16	1120	56
22	.61	91	.25	.32	4	0	6.6	130	2.3
23	1.7	58	.32	.30	4	0	4.3	42	.49
24	.57	11	.02	.49	11	.02	3.4	37	.34
25	.22	3	0	.44	7	.01	14	2340	208
26	.29	81	.23	.30	9	.01	6.7	223	5.3
27	15	4460	251	.37	12	.01	4.2	39	.44
28	20	6010	536	.30	14	.01	3.3	26	.23
29	11	2750	177	---	---	---	3.0	20	.16
30	3.4	63	.68	---	---	---	2.6	18	.13
31	2.0	15	.08	---	---	---	2.1	17	.10
TOTAL	56.24	---	965.64	23.39	---	.87	120.41	---	427.84

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	2.0	17	.09						
2	1.6	17	.07						
3	1.4	32	.12						
4	1.3	30	.11						
5	1.2	23	.07						
6	1.3	36	.13						
7	1.2	26	.08						
8	1.0	24	.06						
9	1.0	24	.06						
10	.56	17	.03						
11	.60	21	.03						
12	.87	35	.08						
13	.81	18	.04						
14	.67	16	.03						
15	.69	18	.03						
16	.64	18	.03						
17	.56	26	.04						
18	.77	65	.17						
19	1.1	24	.07						
20	.56	13	.02						
21	.52	16	.02						
22	.35	22	.02						
23	.35	13	.01						
24	.35	16	.02						
25	.35	12	.01						
26	.35	14	.01						
27	.37	21	.02						
28	.33	29	.03						
29	.24	27	.02						
30	.80	70	.26						
31	---	---	---						
TOTAL	23.84	---	1.78						
PERIOD	231.69		1412.77						

SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR NEAR CASTRO VALLEY, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
DECEMBER 1980	7.81	16.64	0	17
JANUARY 1981	56.24	965.64	7	973
FEBRUARY ...	23.39	.87	0	1
MARCH	120.41	427.84	6	434
APRIL	23.84	1.78	0	2
TOTAL	231.69	1412.77	13	1427

SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 .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	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
DEC											
06...	1715	10.5	1.4	173	.65	--	--	--	--	--	99
21...	1400	11.0	.04	1240	.13	57	77	93	100	--	--
JAN											
22...	1245	12.5	.42	122	.14	--	--	--	--	--	95
27...	1230	10.0	37	12100	1210	29	38	49	67	82	--
27...	1335	10.5	33	10400	927	41	47	55	61	67	--
MAR											
04...	1150	10.0	1.4	103	.39	--	--	--	--	--	89
25...	1420	13.0	18	2640	128	51	62	70	76	--	80
APR											
06...	1505	14.0	1.4	39	.15	--	--	--	--	--	97

DATE	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. FALL DIAM. % FINER THAN 2.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
DEC										
06...	--	100	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
JAN										
22...	--	96	--	98	--	100	--	--	--	--
27...	92	--	97	--	100	--	--	--	--	--
27...	71	--	74	--	84	--	99	--	100	--
MAR										
04...	--	91	--	93	--	100	--	--	--	--
25...	--	82	--	85	--	90	--	95	--	99
APR										
06...	--	98	--	100	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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							
30...	1200	1	.12	12	29	74	90
30...	1202	1	.12	2	5	16	30
30...	1204	1	.12	1	2	9	26
30...	1206	1	.12	1	2	10	35
30...	1208	1	.12	5	13	42	61
JUN							
24...	1200	1	.00	11	34	74	93
24...	1202	1	.00	2	6	15	26
24...	1204	1	.00	4	7	28	54

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						
30...	94	98	99	100	--	--
30...	48	72	91	98	100	--
30...	43	58	75	94	100	--
30...	61	83	96	100	--	--
30...	70	79	85	87	88	100
JUN						
24...	98	99	100	--	--	--
24...	40	53	71	85	96	100
24...	74	88	97	99	100	--

11181000 SAN LORENZO CREEK AT HAYWARD, CA

LOCATION.--Lat 37°41'11", long 122°03'44", in San Lorenzo Grant, Alameda County, Hydrologic Unit 18050004, on right bank at bridge on B Street, just outside city limits of Hayward, 0.5 mi (0.8 km) downstream from Crow Creek, and 0.9 mi (1.4 km) downstream from Don Castro Dam.

DRAINAGE AREA.--37.5 mi² (97.1 km²).

PERIOD OF RECORD.--October 1939 to September 1940, October 1946 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1947(M), 1949(M). WSP 1345: 1940(M). WSP 1715: 1947.

GAGE.--Water-stage recorder and concrete control (control ineffective since 1952 due to gravel fill). Datum of gage is 133.16 ft (40.587 m) National Geodetic Vertical Datum of 1929. January to September 1940, nonrecording gage on bridge at present site and datum.

REMARKS.--Records fair except those below 1.0 ft³/s (.028 m³/s) which are poor. Flow partly regulated since October 1962 by Cull Creek Reservoir, capacity, 310 acre-ft (382,000 m³) and since January 1965 by Don Castro Reservoir, 0.9 mi (1.4 km) upstream, capacity, 380 acre-ft (469,000 m³). A few very small diversions above station for irrigation.

AVERAGE DISCHARGE.--36 years, 14.6 ft³/s (0.413 m³/s), 10,580 acreft/yr (13.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,460 ft³/s (211 m³/s) Oct. 13, 1962, gage height, 19.73 ft (6.014 m) from floodmarks, from rating curve extended above 2,700 ft³/s (76.5 m³/s) on basis of slope-area measurement of maximum flow; maximum gage height, 20.82 ft (6.346 m), from floodmarks, Dec. 22, 1955; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 230 ft³/s (6.51 m³/s) January 27, gage height 5.99 ft (1.826 m), no peak above base of 550 ft³/s (16 m³/s); minimum daily discharge, 0.03 ft³/s (0.001 m³/s), Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	1.8	1.1	1.2	6.1	6.6	14	3.5	.67	.54	.72	.08
2	.19	1.9	.24	1.1	5.0	4.2	11	3.9	1.6	.30	.16	.13
3	.55	1.0	13	.75	3.7	3.4	11	4.1	.59	.19	.14	.16
4	3.7	1.8	13	1.1	3.4	9.0	9.3	5.3	.65	.20	.12	.14
5	4.3	2.6	1.4	.86	3.4	5.5	8.3	4.0	.44	.13	.11	.12
6	4.7	1.9	1.2	1.1	3.1	3.8	10	3.9	.51	.53	.20	.17
7	6.5	3.1	1.2	1.1	6.6	3.5	9.6	2.8	.52	.45	.67	.15
8	4.7	1.7	1.9	.86	7.2	4.4	9.1	2.6	1.0	.13	1.1	.14
9	1.8	4.6	.73	1.1	7.8	2.9	7.7	3.3	2.4	.07	.70	.13
10	1.5	1.6	.73	1.1	3.4	3.1	7.1	3.8	1.1	.34	.40	.12
11	1.8	3.5	.52	.75	3.4	3.4	6.3	2.2	.74	.10	.30	.11
12	3.8	1.4	.59	.75	2.8	5.7	6.1	2.2	.68	.36	.24	.10
13	2.6	3.5	1.0	4.2	3.7	30	5.4	1.9	.55	.84	.20	.30
14	1.3	4.5	.52	.86	8.5	7.4	6.1	2.5	.43	.08	.16	.60
15	2.5	4.2	.47	2.4	3.7	32	5.7	3.1	.87	.57	.14	1.0
16	1.7	2.4	.54	1.4	3.4	21	5.8	2.7	.27	.86	.11	.40
17	.36	3.6	.91	2.1	3.4	15	6.9	2.1	.33	.84	.09	.09
18	.75	1.7	1.4	.66	3.1	110	9.5	4.9	.61	1.9	.09	.08
19	.14	.15	1.3	1.6	3.1	94	13	4.0	.38	.12	.40	.08
20	.17	7.2	.66	.86	3.4	71	8.3	2.4	.34	2.4	.40	.07
21	.81	6.7	7.1	.91	2.8	51	7.7	1.6	.19	1.2	.30	.07
22	.79	6.1	2.5	7.9	2.8	33	5.7	1.3	.12	.90	.23	.06
23	1.8	3.4	.81	5.4	3.1	25	5.5	1.2	.30	1.1	.17	.04
24	1.4	1.1	1.5	1.2	3.1	17	4.7	1.4	.09	.59	.13	.03
25	2.8	1.1	.60	.58	4.5	54	4.3	1.8	.21	.12	.09	.17
26	2.0	.53	.68	5.6	3.5	26	5.5	1.7	.09	.29	.12	.08
27	2.3	.58	.58	108	3.4	19	5.2	1.5	.16	2.2	.10	.09
28	2.2	.61	.58	93	5.0	17	5.0	1.7	.30	.57	.10	.08
29	.64	.63	.66	72	---	18	1.9	1.5	.25	.64	.09	.07
30	2.5	.39	1.4	16	---	14	2.8	1.1	.16	.90	.09	.06
31	3.4	---	1.4	7.8	---	13	---	.80	---	1.6	.08	---
TOTAL	64.27	75.29	60.22	344.24	116.4	722.9	218.5	80.80	16.55	21.06	7.95	4.92
MEAN	2.07	2.51	1.94	11.1	4.16	23.3	7.28	2.61	.55	.68	.26	.16
MAX	6.5	7.2	13	108	8.5	110	14	5.3	2.4	2.4	1.1	1.0
MIN	.14	.15	.24	.58	2.8	2.9	1.9	.80	.09	.07	.08	.03
AC-FT	127	149	119	683	231	1430	433	160	33	42	16	9.8
CAL YR 1980	TOTAL	10435.32	MEAN	28.5	MAX	1260	MIN	.14	AC-FT	20700		
WTR YR 1981	TOTAL	1733.10	MEAN	4.75	MAX	110	MIN	.03	AC-FT	3440		

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA

LOCATION.--Lat 37°40'48", long 122°04'46", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank at Hayward, 700 ft (213 m) upstream from mouth, and 700 ft (213 m) downstream from small left-bank tributary.

DRAINAGE AREA.--5.51 mi² (14.27 km²).

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.--7 years (water years 1972-74, 1978-81), 4.07 ft³/s (0.115 m³/s), 2,950 acre-ft/yr (3.64 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 670 ft³/s (19.0 m³/s) Jan. 8, 1979, gage height, 7.20 ft (2.195 m), from rating curve extended above 53 ft³/s (1.50 m³/s) on basis of slope-area measurements at gage heights 3.92 ft (1.195 m) and 6.02 ft (1.835 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 574 ft³/s (16.3 m³/s) Jan. 27 (1000 hrs), gage height, 6.25 ft (1.905 m), no other peak above base of 500 ft³/s (14 m³/s); minimum daily, 0.09 ft³/s (0.003 m³/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.11	.13	.15	.53	2.2	1.3	.48	.30	.28	.19	.15
2	.13	.11	.12	.19	.58	1.0	.68	.48	.28	.27	.20	.14
3	.13	.16	50	.35	.61	.82	.61	.48	.32	.27	.20	.13
4	.11	.13	20	.16	.50	10	.54	.44	.38	.24	.24	.12
5	.16	1.2	.24	.16	.46	.83	.54	.40	.38	.24	.23	.12
6	.13	.11	.20	.16	.43	.50	.52	.42	.35	.24	.22	.11
7	.10	.14	.18	.15	.38	.43	.53	.44	.31	.29	.32	.10
8	.13	.13	.13	.17	8.0	.40	.55	.46	.32	.31	.30	.13
9	.14	.13	.14	.20	3.2	.35	.49	.46	.30	.31	.22	.11
10	.10	.42	.16	.22	.53	.32	.49	.47	.30	.22	.28	.11
11	.09	.72	.16	.18	.73	.32	.49	.48	.34	.25	.20	.10
12	3.2	.11	.31	.18	.42	12	.42	.45	.30	.22	.23	.14
13	.45	.11	.32	.18	2.3	22	.46	.40	.27	.23	.20	.13
14	.14	.11	.34	.18	9.4	.99	.44	.38	.26	.25	.21	.12
15	.13	.13	.19	.16	.62	33	.42	.38	.32	.25	.20	1.1
16	.14	.11	.21	2.9	.53	3.1	.41	.38	.39	.21	.22	.19
17	.13	.13	.14	1.7	.58	1.3	.40	.41	.30	.21	.21	.13
18	.13	.14	.13	.16	.82	14	10	5.0	.30	.19	.18	.18
19	.14	.11	.13	.18	.45	15	9.0	.37	.35	.21	.18	.15
20	.14	.11	.15	.43	.38	31	1.5	.33	.31	.25	.18	.15
21	.13	.25	26	.20	.29	19	.73	.29	.30	.25	.24	.19
22	.13	5.0	.62	28	.35	3.0	.64	.35	.34	.28	.19	.16
23	.14	1.6	.24	11	.38	1.8	.60	.35	.44	.23	.20	.63
24	.14	.45	.19	.53	14	1.3	.54	.31	.26	.27	.20	.15
25	.14	.17	.18	.29	1.7	20	.57	.32	.24	.22	.17	.19
26	.14	.15	.16	21	1.1	2.8	.65	.30	.25	.22	.18	.12
27	.13	.14	.17	111	.62	1.4	.45	.30	.25	.22	.19	.14
28	.11	.13	.16	76	7.0	1.1	.48	.30	.25	.21	.21	.25
29	.11	.13	.15	24	---	3.3	.55	.28	.24	.21	.23	.28
30	.14	.25	.14	2.0	---	.92	.50	.27	.28	.20	.19	.17
31	.26	---	.14	.94	---	.78	---	.33	---	.21	.17	---
TOTAL	7.52	12.69	101.53	283.12	56.89	204.96	35.50	16.51	9.23	7.46	6.58	5.89
MEAN	.24	.42	3.28	9.13	2.03	6.61	1.18	.53	.31	.24	.21	.20
MAX	3.2	5.0	50	111	14	33	10	5.0	.44	.31	.32	1.1
MIN	.09	.11	.12	.15	.29	.32	.40	.27	.24	.19	.17	.10
AC-FT	15	25	201	562	113	407	70	33	18	15	13	12
(†)	.11	.17	2.05	5.42	1.27	4.35	.45	--	--	--	--	--
(‡)	--	--	1.90	5.46	1.24	--	.40	--	--	--	--	--

CAL YR 1980 TOTAL 1336.34 MEAN 3.65 MAX 200 MIN .08 AC-FT 2650
WTR YR 1981 TOTAL 747.88 MEAN 2.05 MAX 111 MIN .09 AC-FT 1480

† Precipitation, in inches, at Proctor School raingage at Castro Valley.

‡ Precipitation, in inches, at Sydney School raingage at Castro Valley.

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1972-73, 1975, 1977, and 1980 to current year.

SEDIMENT RECORDS: Water years 1972, 1973 (partial-record station).

INSTRUMENTATION.--Water-quality sampler since March 1980.

DATE	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	SOLIDS, NON-VOLATILE, SUSPENDED (MG/L)	SOLIDS, VOLATILE, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
OCT , 1980										
14-14	86	7.4	20.0	--	--	--	--	--	--	--
DEC										
02-04	--	--	--	--	--	265	--	--	--	--
JAN , 1981										
16-20	--	--	--	--	--	310	--	--	--	--
20-29	290	7.3	5.5	41	37	219	31	6	3.1	.17
FEB										
08-09	--	--	--	--	--	126	--	--	.90	.27
13-14	253	6.8	4.8	81	60	307	42	18	1.1	.02
23-27	236	6.7	7.0	83	88	326	65	23	2.9	.09
27-28	367	7.8	6.5	46	33	277	18	15	1.4	.09
MAR										
01-02	367	7.8	6.5	46	33	277	18	15	1.4	.09
04-06	448	7.3	5.2	43	23	342	13	10	2.1	.06
13-16	328	7.6	6.5	48	31	259	14	17	2.4	.10
16-23	360	7.6	4.5	52	90	347	68	22	2.3	.01
24-27	474	7.4	6.8	40	28	335	8	20	2.5	.04
APR										
18-20	232	7.0	8.9	--	--	238	--	--	--	--
MAY										
18-20	445	7.4	4.5	89	68	393	30	38	1.5	.16

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
OCT , 1980										
14-14	--	--	--	--	--	--	--	0	--	140
DEC										
02-04	--	--	--	--	--	--	--	490	--	320
JAN , 1981										
16-20	--	--	--	--	--	--	--	400	--	150
20-29	1.20	4.3	.28	.28	4	1	8	49	3.8	60
FEB										
08-09	1.00	1.9	.19	--	--	--	--	300	--	80
13-14	.95	2.1	.31	.11	2	1	4	250	1.5	150
23-27	2.00	4.9	.36	.09	3	2	27	--	2.9	160
27-28	1.30	2.7	.25	.11	2	2	21	97	2.3	90
MAR										
01-02	1.30	2.7	.25	.11	2	2	21	97	2.3	90
04-06	1.10	3.2	.21	.08	3	1	20	93	2.5	90
13-16	1.20	3.6	.27	.00	3	8	18	46	3.0	70
16-23	1.90	4.2	.43	.23	--	7	20	200	2.1	130
24-27	1.60	4.1	.24	.13	3	3	7	51	3.4	90
APR										
18-20	--	--	--	--	--	--	--	200	--	300
MAY										
18-20	2.00	3.5	.36	.17	5	2	11	160	8.0	120

TEMESCAL CREEK BASIN

11181330 TEMESCAL CREEK ABOVE LAKE TEMESCAL, AT OAKLAND, CA

LOCATION.--Lat 37°50'38", long 122°13'35", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002, on right bank at Oakland, CA, 0.1 mi (0.2 km) upstream from inflow to Lake Temescal.

DRAINAGE AREA.--1.74 mi² (4.51 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to September 1981 (discontinued).

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 period of no gage-height record, Dec. 17 to Jan. 20, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 140 ft³/s (3.96 m³/s) Feb. 19, 1980, gage height, 4.37 ft (1.332); minimum daily 0.01 ft³/s (<0.001 m³/s) for many days in 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 81 ft³/s (2.29 m³/s) Jan. 27 (0215 hrs), gage height 3.12 ft (0.951 m), no other peak above base of 75 ft³/s (2.12 m³/s); minimum daily 0.01 ft³/s (<0.001 m³/s) for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.28	.30	.08	.37	.45	.54	.20	.13	.06	.14	.18
2	.01	.30	.68	.08	.30	.27	.40	.19	.13	.05	.14	.20
3	.01	.23	9.4	.38	.27	.24	.37	.12	.13	.06	.13	.24
4	.01	.27	.81	.26	.23	1.9	.32	.15	.13	.06	.17	.26
5	.01	.33	.25	.13	.21	.36	.31	.12	.12	.08	.17	.30
6	.01	.30	.19	.09	.19	.28	.31	.10	.12	.06	.18	.30
7	.01	.50	.12	.08	.19	.25	.28	.11	.13	.06	.18	.23
8	.01	.15	.13	.07	.67	.27	.26	.11	.11	.08	.15	.22
9	.01	.16	.07	.06	.40	.34	.26	.12	.08	.10	.15	.19
10	.01	.11	.08	.06	.33	.24	.25	.13	.11	.12	.18	.22
11	.01	.17	.10	.05	.39	.26	.24	.19	.11	.08	.15	.16
12	.73	.12	.04	.05	.26	2.2	.23	.15	.10	.09	.15	.18
13	.48	.11	.04	.04	.41	4.0	.20	.14	.10	.10	.16	.19
14	.06	.10	.04	.04	1.5	.46	.18	.12	.08	.11	.20	.22
15	.09	.10	.04	.04	.18	5.1	.18	.16	.08	.12	.20	.20
16	.09	.11	.05	.16	.15	.84	.17	.17	.08	.12	.21	.23
17	.05	.11	.07	.29	.13	.58	.16	.19	.11	.13	.22	.23
18	.06	.12	.09	.10	.11	4.0	.36	.88	.10	.09	.25	.24
19	.06	.13	.15	.98	.13	1.4	.27	.15	.11	.08	.23	.25
20	.07	.16	.33	.11	.14	3.3	.20	.13	.08	.08	.26	.24
21	.07	.33	2.2	.15	.15	3.4	.18	.11	.07	.09	.23	.24
22	.07	.79	.27	7.9	.14	.92	.16	.14	.07	.09	.23	.24
23	.07	.44	.52	1.7	.10	.67	.19	.12	.09	.11	.27	.30
24	.63	.12	.25	.32	.59	.57	.22	.12	.07	.12	.27	.23
25	.06	.12	.18	.17	.35	6.3	.30	.13	.07	.14	.25	.18
26	.07	.12	.15	2.6	.72	.98	.20	.16	.05	.15	.16	.17
27	.07	.12	.13	18	.27	.69	.14	.15	.06	.18	.17	.19
28	.08	.13	.12	6.5	1.0	.58	.18	.14	.14	.18	.19	.19
29	.09	.16	.11	2.9	---	.53	.24	.14	.08	.20	.22	.18
30	.09	.27	.10	.76	---	.47	.21	.15	.07	.25	.25	.16
31	.10	---	.09	.48	---	.44	---	.12	---	.22	.27	---
TOTAL	3.20	6.46	17.10	44.63	9.88	42.29	7.51	5.11	2.91	3.46	6.13	6.56
MEAN	.10	.22	.55	1.44	.35	1.36	.25	.16	.097	.11	.20	.22
MAX	.73	.79	9.4	18	1.5	6.3	.54	.88	.14	.25	.27	.30
MIN	.01	.10	.04	.04	.10	.24	.14	.10	.05	.05	.13	.16
AC-FT	6.3	13	34	89	20	84	15	10	5.8	6.9	12	13
(†)	0.3	0.5	3.4	10.2	2.0	6.6	0.5	0.6	--	--	--	--
CAL YR 1980	TOTAL 338.75		MEAN .93	MAX 27	MIN .01	AC-FT 672						
WTR YR 1981	TOTAL 155.24		MEAN .43	MAX 18	MIN .01	AC-FT 308						

†Precipitation, in inches.

WATER-QUALITY RECORDS

CHEMICAL ANALYSES: Water years 1979-80.

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

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 .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
JAN							
20...	1340	13.0	.11	3	.00	--	--
22...	1215	13.0	23	1210	75	55	64
27...	1415	11.0	11	215	6.4	--	--
FEB							
13...	1130	13.0	3.1	201	1.7	--	--
24...	1130	11.0	.08	5	.00	--	--
APR							
02...	1020	10.5	.41	4	.00	--	--
MAY							
15...	1115	13.0	.15	11	.00	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM
JAN						
20...	--	--	--	--	--	--
22...	77	84	92	96	98	100
27...	--	--	86	92	97	100
FEB						
13...	--	--	90	--	--	--
24...	--	--	100	--	--	--
APR						
02...	--	--	--	--	--	--
MAY						
15...	--	--	--	--	--	--

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	RED MAT. SIEVE DIAM. % FINER THAN .062 MM	RED MAT. SIEVE DIAM. % FINER THAN .125 MM	RED MAT. SIEVE DIAM. % FINER THAN .250 MM	RED MAT. SIEVE DIAM. % FINER THAN .500 MM
APR 02...	0935	10.5	3	.41	1	2	6	15
JUN 25...	1110	16.0	3	.07	1	2	5	14

	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN
DATE	1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM	64.0 MM
APR 02...	26	39	50	62	80	100	--
JUN 25...	25	36	49	64	88	97	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 mi² (2.15 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1979 to September 1981 (discontinued).

GAGE.--Water-stage recorder and wooden dam control in culvert. Altitude of gage is 390 ft (119 m) from topographic map. Recording rain gage across creek from station.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 23 ft³/s (0.65 m³/s) Mar. 25, gage height 3.45 ft (1.052 m); minimum daily, 0.02 ft³/s (<0.001 m³/s) on Oct. 10 and Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.04	.04	.03	.25	.38	.80	.20	.12	.07	.10	.05
2	.08	.04	.08	.18	.15	.11	.20	.20	.13	.08	.08	.04
3	.08	.11	4.4	.55	.12	.10	.13	.13	.09	.07	.16	.04
4	.08	.10	.83	.03	.09	2.0	.12	.11	.05	.04	.06	.04
5	.08	.07	.12	.03	.07	.28	.11	.13	.05	.05	.08	.05
6	.08	.09	.08	.03	.06	.14	.09	.10	.06	.05	.07	.05
7	.07	.22	.07	.03	.05	.14	.07	.11	.05	.04	.07	.05
8	.07	.13	.09	.11	.05	.14	.07	.11	.05	.04	.06	.06
9	.04	.13	.09	.03	.38	.16	.07	.12	.06	.06	.06	.04
10	.02	.04	.07	.03	.12	.13	.06	.11	.06	.06	.05	.05
11	.28	.05	.07	.03	.19	.10	.08	.19	.13	.06	.05	.06
12	.38	.04	.07	.03	.08	1.4	.08	.14	.07	.07	.05	.04
13	.50	.04	.08	.10	.30	3.3	.08	.14	.07	.07	.05	.04
14	.43	.03	.04	.03	1.3	.28	.08	.12	.08	.04	.04	.04
15	.08	.03	.08	.03	.18	4.1	.07	.14	.07	.04	.05	.04
16	.09	.06	.15	.22	.14	1.2	.11	.12	.07	.04	.05	.04
17	.07	.07	.10	.36	.14	.47	.23	.11	.29	.04	.04	.04
18	.49	.03	.07	.04	.11	3.2	.76	1.3	.07	.04	.05	.04
19	.63	.02	.11	.79	.13	2.8	.67	.09	.08	.04	.05	.04
20	.07	.03	.17	.18	.14	4.4	.25	.08	.08	.05	.04	.04
21	.07	.12	2.0	.07	.14	4.2	.17	.10	.08	.05	.04	.04
22	.15	.44	.10	5.6	.15	2.5	.19	.11	.07	.06	.04	.04
23	.04	.27	.32	2.9	.11	2.2	.19	.41	.07	.07	.04	.04
24	.04	.03	.04	.59	.92	1.8	.23	.13	.08	.07	.04	.22
25	.04	.03	.06	.33	.32	6.1	.44	.15	.07	.08	.07	.06
26	.04	.03	.04	3.0	.67	2.8	.22	.13	.07	.09	.07	.05
27	.07	.03	.03	12	.11	1.6	.11	.08	.07	.10	.06	.05
28	.04	.03	.03	8.0	1.2	1.4	.18	.48	.07	.10	.04	.06
29	.10	.04	.03	4.0	---	1.2	.27	.10	.07	.12	.05	.07
30	.31	.11	.03	1.5	---	.67	.24	.12	.07	.13	.06	.07
31	.17	---	.03	.50	---	.56	---	.14	---	.08	.06	---
TOTAL	4.77	2.50	9.52	41.35	7.67	49.86	6.37	5.70	2.45	2.00	1.83	1.59
MEAN	.15	.083	.31	1.33	.27	1.61	.21	.18	.082	.065	.059	.053
MAX	.63	.44	4.4	12	1.3	6.1	.80	1.3	.29	.13	.16	.22
MIN	.02	.02	.03	.03	.05	.10	.06	.08	.05	.04	.04	.04
AC-FT	9.5	5.0	19	82	15	99	13	11	4.9	4.0	3.6	3.2
(†)	0.2	0.5	2.8	7.2	1.5	5.3	0.3	0.4	--	--	--	--

WTR YR 1981 TOTAL 135.61 MEAN .37 MAX 12 MIN .02 AC-FT 269

† Precipitation, in inches.

11181335 CALDECOTT CREEK AT LAKE TEMESCAL AT OAKLAND, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to September 1981 (discontinued).

CHEMICAL ANALYSES: October 1979 to September 1981 (discontinued).

SEDIMENT RECORDS: October 1979 to September 1981 (discontinued).

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT . 1980							
21...	1010	--	1420	6.7	16.0	2	.48
MAY							
06...	1030	.11	915	6.8	16.0	1	--
JUN							
02...	1111	--	720	7.3	20.0	9	.01
16...	1106	--	700	8.4	23.6	13	.23
25...	0940	.07	--	--	17.0	--	--
JUL							
08...	0921	--	1300	7.0	17.0	3	.26
28...	0935	--	1000	7.0	17.0	3	.58
AUG							
19...	0940	--	1200	7.0	16.0	8	.26
SEP							
16...	1004	--	1400	7.0	17.0	11	.11
23...	0943	--	1400	7.0	15.1	6	.04
29...	1120	--	1500	7.1	17.5	22	.04

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,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT . 1980						
21...	.00	.48	.13	.43	.91	.02
MAY						
06...	--	--	.12	.57	--	.04
JUN						
02...	.01	.02	.18	8.80	8.8	.35
16...	.01	.24	.06	1.70	1.9	.19
25...	--	--	--	--	--	--
JUL						
08...	.01	.27	.27	.84	1.1	.04
28...	.02	.60	.17	1.20	1.8	.07
AUG						
19...	.01	.27	.13	.41	.68	.06
SEP						
16...	.03	.14	.18	.90	1.0	.03
23...	.01	.05	.10	.75	.80	.03
29...	.00	.04	.08	.95	.99	.05

TEMESCAL CREEK BASIN

11181335 CALDECOTT CREEK AT LAKE TEMESCAL AT OAKLAND, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
DEC							
17...	1500	11.0	.07	17	.00	--	--
18...	0800	15.5	.07	20	.00	--	--
JAN							
20...	1425	16.0	.40	12	.01	--	--
22...	1120	13.0	2.8	461	3.5	49	60
22...	1325	13.0	12	1740	56	--	--
27...	1045	11.0	15	429	17	--	--
27...	1145	11.0	13	433	15	--	--
27...	1245	11.0	16	318	14	--	--
FEB							
13...	1315	13.0	.38	86	.09	--	--
24...	1045	15.0	.14	12	.00	--	--
APR							
02...	0910	14.5	.14	25	.01	--	--
02...	0920	14.5	.14	27	.01	--	--

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
DEC							
17...	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--
JAN							
20...	--	--	--	--	--	--	--
22...	71	82	90	96	99	99	100
22...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--
27...	--	--	--	69	85	98	100
FEB							
13...	--	--	--	98	100	--	--
24...	--	--	--	--	--	--	--
APR							
02...	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
DEC							
17...	1500	11.0	3	.07	7	20	32
APR							
02...	0930	11.0	3	.14	26	65	87
JUN							
25...	0940	17.0	3	.07	29	68	93

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							
17...	39	49	60	75	88	99	100
APR							
02...	93	97	99	100	--	--	--
JUN							
25...	97	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 mi² (20.18 km²).

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.--6 years, 3.31 ft³/s (0.094 m³/s), 2,400 acre-ft/yr (2.96 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,640 ft³/s (46.4 m³/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.--Maximum discharge 187 ft³/s (5.30 m³/s) January 27, gage height 3.96 ft (1.207 m), no peak above base of 400 ft³/s (11.3 m³/s); minimum daily discharge, 0.06 ft³/s (0.002 m³/s) Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.15	.15	.80	2.5	1.6	1.9	.64	.11	.12	.21	.21
2	.15	.13	.27	.72	2.0	1.2	1.7	.63	.10	.16	.24	.21
3	.15	.09	.19	.80	1.7	1.0	1.4	.57	.15	.18	.20	.21
4	.12	.08	4.0	.89	1.6	1.8	1.3	.61	.15	.16	.21	.20
5	.10	.09	.61	.80	1.5	1.7	1.2	.61	.16	.18	.23	.21
6	.23	.09	.29	.72	1.3	1.3	1.2	.56	.21	.16	.24	.22
7	.19	.09	.24	.72	1.3	1.1	1.2	.57	.22	.15	.23	.22
8	.15	.14	.16	.80	1.5	1.0	1.2	.53	.17	.12	.21	.20
9	.12	.12	.14	.80	1.8	.99	.99	.52	.24	.15	.23	.20
10	.29	.11	.10	.80	1.4	.95	1.1	.56	.26	.16	.22	.20
11	.19	.08	.10	.89	1.2	.95	.97	.47	.29	.15	.21	.20
12	2.0	.10	.11	.80	1.2	1.4	.96	.46	.31	.16	.21	.18
13	.87	.10	.11	.80	1.8	11	.94	.53	.30	.16	.22	.19
14	.53	.06	.15	.80	2.7	3.7	.96	.78	.18	.15	.23	.17
15	.36	.08	.12	.72	1.6	15	.94	.65	.17	.16	.22	.18
16	.24	.22	.11	.65	1.2	11	.97	.25	.19	.17	.22	.19
17	.14	.20	.12	.58	1.1	2.7	.98	.26	.31	.17	.19	.18
18	.16	.14	.16	.46	1.0	5.0	1.1	.52	.32	.17	.22	.18
19	.18	.15	.18	1.4	.92	4.2	1.4	.26	.34	.18	.22	.19
20	.15	.12	.21	.65	.91	7.0	1.3	.25	.33	.19	.22	.20
21	.14	.16	1.2	.60	.90	16	1.1	.18	.30	.18	.20	.20
22	.13	.33	.89	11	.90	6.9	1.0	.14	.26	.18	.22	.20
23	.12	.24	.80	5.8	.85	4.1	.93	.13	.16	.16	.23	.20
24	.15	.14	.89	1.3	1.4	3.0	.80	.11	.18	.19	.21	.20
25	.17	.14	.89	.47	1.5	29	.87	.11	.12	.19	.18	.21
26	.16	.15	.80	4.6	1.0	11	.98	.12	.09	.20	.21	.21
27	.13	.13	.80	63	.92	4.9	.99	.14	.15	.20	.22	.22
28	.13	.13	.80	50	1.9	3.5	.89	.11	.14	.17	.21	.23
29	.11	.12	.80	47	---	2.7	.75	.11	.14	.17	.22	.23
30	.13	.17	.80	7.7	---	2.2	.68	.09	.13	.19	.22	.24
31	.15	---	.80	3.6	---	2.0	---	.13	---	.19	.20	---
TOTAL	8.03	4.05	35.80	210.67	39.60	159.89	32.70	11.60	6.18	5.22	6.70	6.08
MEAN	.26	.14	1.15	6.80	1.41	5.16	1.09	.37	.21	.17	.22	.20
MAX	2.0	.33	.19	.63	2.7	.29	1.9	.78	.34	.20	.24	.24
MIN	.10	.06	.10	.46	.85	.95	.68	.09	.09	.12	.18	.17
AC-FT	16	8.0	71	418	79	317	65	23	12	10	13	12
CAL YR 1980	TOTAL	2217.07	MEAN 6.06	MAX 349	MIN .06	AC-FT 4400						
WTR YR 1981	TOTAL	526.52	MEAN 1.44	MAX 63	MIN .06	AC-FT 1040						

11182030 RHEEM CREEK AT SAN PABLO, CA

LOCATION.--Lat 37°58'38", long 122°21'10", in San Pablo Grant, Contra Costa County, Hydrologic Unit 18050002, on left bank 50 ft (15 m) downstream from Santa Fe Railway bridge at San Pablo, and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--1.49 mi² (3.86 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 13.63 ft (4.154 m) Corps of Engineers datum. Prior to Aug. 13, 1965, at site 0.2 mi (0.3 km) upstream at datum 7.74 ft (2.359 m) higher.

REMARKS.--Records fair. Low flow affected by return flow from industrial waste, leakage, and infrequent releases from off-stream North Reservoir.

AVERAGE DISCHARGE.--20 years (water years 1962-81), 1.32 ft³/s (0.037 m³/s), 956 acre-ft/yr (1.18 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 477 ft³/s (13.5 m³/s) Dec. 20, 1969, gage height, 6.95 ft (2.118 m), from rating curve extended above 150 ft³/s (4.25 m³/s); no flow at times.

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

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Dec. 3	1745	*299	8.47	5.76	1.756
Jan. 27	0915	235	6.66	5.26	1.603

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	.56	.76	.17	.30	.02	.04	0	.02
2	0	0	.03	0	.47	.40	.15	.31	.03	.04	.01	.02
3	0	0	31	.01	.42	.31	.12	.30	.03	.05	.01	.05
4	0	0	2.3	0	.37	2.2	.19	.28	.03	.05	.01	.02
5	.01	0	.55	0	.34	.48	.20	.26	.04	.05	.01	.02
6	.23	0	.24	0	.30	.30	.12	.28	.03	.05	.01	.01
7	.08	0	.17	0	.29	.23	.14	.29	.03	.06	.03	.01
8	.05	0	.07	0	1.4	.21	.09	.31	0	.07	.03	.02
9	.02	0	.07	0	.80	.17	.10	.41	.01	.05	.03	.02
10	.40	0	.02	0	.30	.14	.09	.65	0	.04	0	0
11	.08	0	.01	0	.65	.15	.17	.73	.04	.04	0	.01
12	1.9	0	0	0	.25	3.1	.22	.58	.05	.04	.01	.01
13	.62	0	.03	0	2.2	6.9	.16	.50	.03	.03	.02	.01
14	.23	0	.02	0	2.6	.44	.16	.42	.01	.03	.03	.02
15	.02	0	0	0	.41	14	.12	.50	.02	.04	.02	.06
16	0	0	0	.08	.33	.71	.13	.42	.04	.03	.02	.01
17	0	0	0	.14	.26	.28	.12	.42	.02	.02	.01	.01
18	0	0	0	.01	.22	7.7	.22	.89	.05	.03	.01	0
19	0	0	0	1.1	.21	1.6	.22	.26	.06	.02	.01	0
20	0	0	.01	.10	.14	8.6	.09	.19	.06	.02	.01	.01
21	0	0	1.3	.02	.13	6.0	.23	.10	.04	.04	.02	0
22	0	1.4	0	13	.16	2.9	.30	.12	.03	.01	.01	.01
23	0	.38	0	2.7	.17	.38	.31	.12	.09	.02	.01	0
24	0	.01	0	.12	1.9	.30	.30	.12	.05	.05	.04	.07
25	0	0	0	.04	1.9	13	.40	.10	.04	.01	.01	.06
26	0	0	0	15	1.2	1.1	.35	.10	.03	.01	.01	.01
27	0	0	0	54	.35	.33	.28	.08	.03	0	.03	0
28	0	0	0	30	4.6	.29	.28	.07	.06	.01	.03	0
29	0	0	0	6.9	---	.23	.30	.05	.08	.01	.01	0
30	0	0	0	1.1	---	.22	.30	.04	.05	.03	.02	0
31	0	---	0	.75	---	.21	---	.05	---	.01	.01	---
TOTAL	3.64	1.79	35.82	125.07	22.93	73.64	6.03	9.25	1.10	1.00	.48	.48
MEAN	.12	.060	1.16	4.03	.82	2.38	.20	.30	.037	.032	.016	.016
MAX	1.9	1.4	31	54	4.6	14	.40	.89	.09	.07	.04	.07
MIN	0	0	0	0	.13	.14	.09	.04	0	0	0	0
AC-FT	7.2	3.6	71	248	45	146	12	18	2.2	2.0	1.0	1.0
CAL YR 1980	TOTAL	488.80	MEAN	1.34	MAX	61	MIN	0	AC-FT	970		
WTR YR 1981	TOTAL	281.23	MEAN	.77	MAX	54	MIN	0	AC-FT	558		

11182400 ARROYO DEL HAMBRE AT MARTINEZ, CA

LOCATION.--Lat 38°00'12", long 122°07'44", in Las Juntas Grant, Contra Costa County, Hydrologic Unit 18050001, on right bank 40 ft (12 m) upstream from D Street Bridge in Martinez.

DRAINAGE AREA.--15.1 mi² (39.1 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 48.33 ft (14.731 m) National Geodetic Vertical Datum of 1929 (levels by Contra Costa County Flood Control District).

REMARKS.--Records good above 1.0 ft³/s (0.03 m³/s) and fair below. No regulation or diversion above station.

AVERAGE DISCHARGE.--17 years, 4.00 ft³/s (0.113 m³/s), 2,900 acre-ft/yr (3.58 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,960 ft³/s (55.5 m³/s) Jan. 18, 1973, gage height, 10.93 ft (3.331 m), from rating curve extended above 540 ft³/s (15.3 m³/s) on basis of slope-area measurement at gage height 9.62 ft (2.932 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 88 ft³/s (2.49 m³/s) January 27, gage height, 3.01 ft (0.917 m), no peak above base of 250 ft³/s (7.1 m³/s); minimum daily 0.01 ft³/s (<0.001 m³/s) Nov. 18-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.29	.11	.23	2.0	1.5	1.8	.37	.12	.15	.08	.02
2	.12	.25	.05	.23	1.8	1.2	1.5	.38	.12	.14	.08	.02
3	.12	.31	9.8	.31	1.6	.96	1.3	.36	.12	.11	.07	.03
4	.12	.47	2.9	.34	1.7	2.1	1.1	.39	.10	.11	.09	.03
5	.14	.68	.38	.23	1.4	1.7	1.1	.37	.11	.11	.11	.02
6	.18	.72	.29	.27	1.3	.98	1.2	.36	.11	.16	.11	.02
7	.18	.79	.27	.25	1.2	.82	1.1	.37	.11	.17	.09	.02
8	.16	.71	.23	.23	1.8	.77	1.0	.35	.46	.33	.09	.03
9	.18	.46	.23	.23	1.8	.77	.97	.37	.09	.09	.07	.03
10	.17	.85	.23	.23	1.1	.76	.97	.40	.09	.10	.07	.03
11	.20	.94	.26	.23	1.1	.73	.97	.33	.12	.08	.07	.03
12	.27	.97	.61	.36	.97	1.3	.96	.31	.22	.07	.09	.03
13	.21	1.2	.21	.22	1.8	8.9	.90	.27	.08	.10	.09	.03
14	.30	1.2	.20	.23	1.8	1.6	.84	.26	.12	.08	.10	.03
15	.36	1.2	.20	.20	1.0	19	.78	.23	.14	.07	.09	.04
16	.16	.07	.19	.25	.93	5.7	.79	.24	.12	.05	.09	.04
17	.18	.05	.20	.41	.84	2.1	.73	.24	.09	.05	.09	.04
18	.22	.01	.20	.27	.82	9.0	.82	.38	.09	.06	.13	.04
19	.21	.01	.22	.77	.81	6.8	1.1	.30	.09	.06	.07	.05
20	.25	.01	.20	.39	.76	6.3	.88	.33	.09	.05	.05	.05
21	.31	.01	3.5	.30	.73	8.9	.79	.24	.13	.05	.05	.05
22	.38	.10	.67	5.4	.75	3.0	.74	.23	.11	.06	.05	.06
23	.29	.03	.27	4.5	.75	2.1	.62	.22	.11	.07	.06	.06
24	.39	.02	.27	.77	2.8	1.8	.56	.19	.11	.04	.06	.08
25	.48	.02	.27	.47	1.0	13	.59	.17	.12	.07	.03	.16
26	.25	.03	.25	3.0	1.1	6.5	.68	.17	.12	.07	.04	.08
27	.15	.07	.25	43	.84	2.7	.56	.19	.12	.09	.03	.08
28	.25	.07	.24	32	1.7	2.0	.49	.15	.12	.06	.04	.07
29	.36	.07	.24	18	---	1.9	.45	.14	.12	.07	.05	.07
30	.41	.04	.28	3.5	---	1.7	.44	.13	.15	.08	.04	.07
31	.26	---	.23	2.4	---	1.7	---	.12	---	.08	.03	---
TOTAL	7.39	11.65	23.45	119.22	36.20	118.29	26.73	8.56	3.80	2.88	2.21	1.41
MEAN	.24	.39	.76	3.85	1.29	3.82	.89	.28	.13	.093	.071	.047
MAX	.48	1.2	9.8	43	2.8	19	1.8	.40	.46	.33	.13	.16
MIN	.12	.01	.05	.20	.73	.73	.44	.12	.08	.04	.03	.02
AC-FT	15	23	47	236	72	235	53	17	7.5	5.7	4.4	2.8
CAL YR 1980	TOTAL	2850.27	MEAN	7.79	MAX	297	MIN	.01	AC-FT	5650		
WTR YR 1981	TOTAL	361.79	MEAN	.99	MAX	43	MIN	.01	AC-FT	718		

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 mi² (15.26 km²).

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

REVISED RECORDS. --WSP 1445: 1953-54(P).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 530 ft (162 m), from topographic map.

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

AVERAGE DISCHARGE.--29 years, 2.82 ft³/s (0.080 m³/s), 2,040 acre-ft/yr (2.52 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft³/s (45.3 m³/s) Oct. 13, 1962, gage height, 16.98 ft (5.176 m), from rating curve extended above 90 ft³/s (2.55 m³/s) on basis of indirect measurements of maximum flow through culvert at gage heights 12.09 ft (3.685 m) and 16.98 ft (5.176 m); no flow for parts of most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 68 ft³/s (1.93 m³/s) Mar. 25, gage height 2.79 ft (0.850 m), no peak above base of 200 ft³/s (5.7 m³/s); minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.03	.17	.25	.25	.27	2.1	.53	.26	.02	.01	
2	0	.02	.16	.25	.20	.14	1.9	.55	.26	.02	.01	
3	0	.02	1.2	.27	.17	.10	1.7	.55	.22	.02	.01	
4	0	.03	1.7	.29	.14	.33	1.5	.54	.20	.01	0	
5	0	.03	.18	.26	.13	.28	1.5	.52	.15	.01	0	
6	0	.04	.10	.25	.13	.13	1.5	.49	.11	.01	0	
7	0	.06	.08	.25	.10	.10	1.4	.48	.11	.01	0	
8	0	.09	.06	.25	.14	.10	1.3	.46	.14	.01	0	
9	0	.09	.06	.25	.28	.10	1.2	.43	.15	.01	0	
10	0	.09	.07	.25	.13	.10	1.2	.43	.13	.01	.01	
11	.02	.09	.07	.25	.15	.10	1.1	.42	.10	.01	.01	
12	.10	.09	.07	.25	.10	.10	1.1	.38	.10	.01	.01	
13	.14	.09	.07	.25	.15	2.1	1.1	.37	.09	.01	.01	
14	.13	.09	.07	.21	.48	.29	1.0	.39	.08	.01	.01	
15	.10	.10	.07	.23	.16	3.5	1.0	.39	.06	.01	.01	
16	.09	.06	.07	.25	.13	1.8	.99	.36	.04	.01	0	
17	.08	.04	.07	.31	.11	.59	.98	.32	.03	.02	0	
18	.07	.05	.07	.29	.10	2.3	1.1	.52	.01	.01	.01	
19	.06	.06	.07	.25	.10	6.1	1.2	.44	.01	.01	.01	
20	.06	.08	.07	.26	.08	8.3	1.0	.37	.01	0	.01	
21	.05	.09	.65	.25	.05	11	.93	.34	.01	0	.01	
22	.05	.21	.87	.85	.08	4.5	.86	.34	.01	0	0	
23	.04	.23	.33	1.5	.10	3.3	.79	.30	.01	.01	.01	
24	.04	.17	.29	.64	.36	2.4	.78	.31	.01	0	.01	
25	.08	.11	.25	.36	.20	14	.76	.36	.02	0	.01	
26	.15	.11	.25	.54	.10	5.9	.81	.35	.02	0	0	
27	.12	.11	.25	11	.10	3.5	.72	.30	.02	0	0	
28	.07	.12	.25	13	.15	2.7	.65	.29	.02	0	0	
29	.06	.12	.25	8.3	---	2.8	.58	.30	.02	0	0	
30	.08	.16	.25	1.1	---	2.3	.57	.31	.02	0	0	
31	.18	---	.25	.36	---	2.1	---	.28	---	.01	0	---
TOTAL	1.78	2.68	8.37	43.02	4.37	81.33	33.32	12.42	2.42	.25	.16	0
MEAN	.057	.089	.27	1.39	.16	2.62	1.11	.40	.081	.008	.005	0
MAX	.18	.23	1.7	13	.48	14	2.1	.55	.26	.02	.01	0
MIN	0	.02	.06	.21	.05	.10	.57	.28	.01	0	0	0
AC-FT	3.5	5.3	17	85	8.7	161	66	25	4.8	.5	.3	0
CAL YR 1980	TOTAL	2003.59	MEAN	5.47	MAX	160	MIN	0	AC-FT	3970		
WTR YR 1981	TOTAL	190.12	MEAN	.52	MAX	14	MIN	0	AC-FT	377		

11183000 SAN RAMON CREEK AT WALNUT CREEK, CA

LOCATION.--Lat 37°52'38", long 122°02'52", in San Ramon Grant, Contra Costa County, Hydrologic Unit 18050001, on left bank 600 ft (183 m) upstream from Rudgear Road, near south city limits of town of Walnut Creek.

DRAINAGE AREA.--47.9 mi² (124.1 km²).

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

REVISED RECORDS.--WSP 1395: 1953(M). 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.--29 years, 16.1 ft³/s (0.456 m³/s), 11,660 acre-ft/yr (14.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,980 ft³/s (226 m³/s) Jan. 31, 1963, gage height, 14.40 ft (4.389 m) site and datum then in use, from rating curve extended above 2,200 ft³/s (62.3 m³/s) on basis of computed discharge at gage height 13.16 ft (4.011 m); maximum gage height, 14.55 ft (4.435 m) Dec. 23, 1955, site and datum then in use; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 623 ft³/s (17.6 m³/s) Jan. 29, gage height 3.85 ft (1.173 m), no peak above base of 1,000 ft³/s (28 m³/s); minimum daily, 1.7 ft³/s (0.048 m³/s) Dec. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.6	2.1	2.5	12	18	11	5.5	3.1	3.1	2.9	2.1
2	2.7	2.5	2.1	2.3	11	11	11	5.5	3.1	3.1	2.9	2.1
3	2.9	2.3	38	4.3	9.6	8.2	10	5.5	3.1	3.1	2.9	2.4
4	3.0	2.4	44	3.2	9.0	15	9.9	5.7	3.1	3.1	2.8	2.5
5	3.1	2.4	6.5	2.5	8.9	15	9.9	5.8	3.1	3.1	2.5	2.2
6	3.1	2.4	3.8	2.5	8.9	9.1	9.9	5.5	3.1	3.1	2.5	2.2
7	3.2	2.3	3.1	2.3	10	7.4	9.9	5.3	3.1	2.9	2.5	2.4
8	3.4	2.3	2.8	2.8	12	6.9	9.7	5.3	3.1	2.9	2.5	2.5
9	2.9	2.3	2.5	2.9	26	6.9	9.2	5.3	3.6	2.7	2.5	2.4
10	2.9	2.3	2.4	2.9	11	8.1	8.6	5.0	3.8	2.7	2.4	2.4
11	2.7	2.3	2.4	2.7	9.9	6.8	8.3	4.8	3.3	2.7	2.4	2.2
12	3.2	2.3	2.6	2.7	9.8	6.9	8.2	4.7	3.1	2.9	2.4	2.2
13	4.4	2.3	2.9	2.7	11	57	8.2	3.7	3.1	2.9	2.4	2.2
14	4.5	2.4	2.6	2.7	22	13	7.9	3.2	3.4	2.9	2.4	2.4
15	3.4	2.3	2.5	2.7	12	63	7.9	3.0	3.4	2.9	2.4	2.7
16	3.4	2.2	2.5	3.3	10	34	7.9	2.9	2.9	4.2	2.4	2.7
17	3.1	2.2	2.5	4.6	9.2	13	8.4	2.7	2.7	5.0	2.4	2.4
18	2.9	2.2	2.7	4.5	9.5	37	12	4.2	2.7	4.8	2.5	2.4
19	2.7	2.1	2.7	3.4	9.2	81	18	7.3	2.7	4.1	2.7	2.4
20	2.7	2.1	2.7	3.6	8.9	86	8.4	4.1	2.7	2.9	2.7	2.2
21	2.7	2.1	18	3.5	8.7	101	7.1	3.7	2.7	2.5	2.5	2.1
22	2.7	2.6	13	18	7.9	25	6.7	3.5	2.7	2.5	2.5	2.1
23	2.6	3.7	3.9	28	7.9	16	6.3	3.9	2.7	2.4	2.4	2.1
24	2.5	2.5	1.7	8.8	27	13	6.3	3.5	2.7	2.4	2.4	2.1
25	2.7	2.2	2.2	4.5	14	80	6.3	3.8	2.7	2.4	2.3	2.2
26	2.8	2.1	2.2	8.6	8.8	36	6.3	3.4	3.0	2.7	2.2	2.2
27	2.7	2.1	2.4	318	7.1	17	6.1	3.3	3.1	2.5	2.2	2.2
28	2.6	2.1	2.4	224	8.3	13	5.9	3.3	3.1	2.5	2.2	2.2
29	2.5	2.1	2.1	148	---	15	5.5	3.2	3.7	2.5	2.2	2.2
30	2.7	2.1	2.1	24	---	12	5.5	3.1	3.1	2.7	2.2	2.2
31	2.8	---	2.1	14	---	11	---	3.1	---	2.9	2.1	---
TOTAL	92.0	69.8	185.5	860.5	319.6	842.3	256.3	132.8	91.7	93.1	76.3	68.6
MEAN	2.97	2.33	5.98	27.8	11.4	27.2	8.54	4.28	3.06	3.00	2.46	2.29
MAX	4.5	3.7	44	318	27	101	18	7.3	3.8	5.0	2.9	2.7
MIN	2.5	2.1	1.7	2.3	7.1	6.8	5.5	2.7	2.7	2.4	2.1	2.1
AC-FT	182	138	368	1710	634	1670	508	263	182	185	151	136
CAL YR 1980	TOTAL	13326.3	MEAN	36.4	MAX	1620	MIN	1.7	AC-FT	26430		
WTR YR 1981	TOTAL	3088.5	MEAN	8.46	MAX	318	MIN	1.7	AC-FT	6130		

11183600 WALNUT CREEK AT CONCORD, CA

LOCATION.--Lat 37°56'43", long 122°02'55", in Arroyo de las Nueces y Bolbones Grant, Contra Costa County, Hydrologic Unit 18050001, on right bank at southwest city limits of Concord, 0.2 mi (0.3 km) upstream from Southern Pacific Railroad bridge, and 3.8 mi (6.1 km) downstream from confluence of San Ramon and Las Trampas Creeks.

DRAINAGE AREA.--85.2 mi² (220.7 km²).

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

REVISED RECORDS.--WRD CA-79-2: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 35.44 ft (10.802 m) Corps of Engineers datum.

REMARKS.--Records good. Flow slightly regulated by Lafayette Reservoir 10 mi (16 km) upstream, capacity, 4,240 acre-ft (5.23 hm³). Some small diversions for irrigation above station.

AVERAGE DISCHARGE.--13 years, 41.8 ft³/s (1.184 m³/s), 30,280 acre-ft/yr (37.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft³/s (227 m³/s) Feb. 27, 1973, gage height, 14.0 ft (4.27 m), estimated, from rating curve extended above 3,000 ft³/s (85.0 m³/s) on basis of computed discharge at gage height 13.7 ft (4.18 m); minimum daily, 0.70 ft³/s (0.020 m³/s) Oct. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 935 ft³/s (26.5 m³/s) Jan. 27 (1400 hrs), gage height, 5.14 ft (1.567 m), no other peak above base of 850 ft³/s (24 m³/s); minimum daily discharge, 4.0 ft³/s (0.113 m³/s) Dec. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	6.3	7.7	5.1	22	41	24	17	11	6.5	9.2	5.9
2	6.4	6.0	7.7	4.9	14	19	19	15	9.4	6.1	19	5.6
3	6.2	6.1	122	9.0	24	14	18	14	9.0	5.9	30	5.6
4	9.8	6.1	100	6.8	26	44	17	15	9.5	6.2	19	6.0
5	17	6.3	16	5.4	27	32	16	15	12	6.0	6.4	5.9
6	17	6.7	10	5.0	31	15	15	14	8.7	13	6.9	5.7
7	17	7.0	12	5.0	37	13	15	14	14	9.0	7.0	5.5
8	18	7.1	16	4.9	42	12	14	13	28	6.3	7.0	5.5
9	17	7.2	8.2	4.8	54	12	13	11	24	5.0	6.8	9.3
10	16	7.0	7.8	4.7	24	14	23	11	23	5.0	6.3	10
11	15	7.2	10	4.7	26	13	12	11	21	4.9	6.3	5.5
12	21	7.0	10	4.9	26	13	12	11	16	5.0	6.0	5.5
13	20	6.8	9.6	5.5	34	132	23	9.9	15	5.4	6.1	5.7
14	21	7.0	8.2	5.2	46	26	15	10	14	5.8	6.1	5.6
15	22	6.9	7.6	5.4	16	152	15	10	13	5.4	6.2	5.8
16	22	6.5	7.9	5.7	14	77	15	9.7	12	5.8	6.0	6.4
17	28	6.8	8.1	9.0	14	24	15	9.2	11	7.3	5.8	5.8
18	11	6.4	8.1	7.7	14	79	15	14	10	7.6	6.1	6.1
19	12	6.4	7.7	10	15	131	34	17	10	7.6	6.6	6.1
20	22	6.7	7.8	9.7	15	158	17	11	9.7	6.4	6.5	5.8
21	9.0	6.7	57	9.2	16	193	14	10	8.9	6.0	6.4	5.6
22	6.5	10	31	84	18	65	14	11	7.7	6.4	6.3	5.2
23	6.0	11	11	82	21	38	14	11	6.3	5.7	6.5	5.0
24	5.8	8.2	4.0	15	52	28	14	10	5.4	5.4	6.5	5.3
25	5.9	7.5	4.4	7.2	23	172	14	11	11	4.9	6.0	8.5
26	6.2	7.3	4.5	33	23	83	15	9.7	14	5.0	6.0	9.0
27	6.1	7.1	4.8	530	14	38	15	9.6	14	5.7	5.8	20
28	6.1	7.2	4.9	346	25	28	17	9.7	17	7.9	6.4	9.4
29	6.1	7.5	4.7	267	---	31	20	8.9	19	20	6.3	8.0
30	5.9	7.6	4.6	45	---	24	18	9.3	21	27	5.9	11
31	6.0	---	4.6	25	---	20	---	9.2	---	22	5.9	---
TOTAL	394.4	213.6	527.9	1566.8	713	1741	502	361.2	404.6	246.2	247.3	210.3
MEAN	12.7	7.12	17.0	50.5	25.5	56.2	16.7	11.7	13.5	7.94	7.98	7.01
MAX	28	11	122	530	54	193	34	17	28	27	30	20
MIN	5.8	6.0	4.0	4.7	14	12	12	8.9	5.4	4.9	5.8	5.0
AC-FT	782	424	1050	3110	1410	3450	996	716	803	488	491	417
CAL YR 1980 TOTAL	22702.3			62.0		1980	MIN 4.0	AC-FT 45030				
WTR YR 1981 TOTAL	7128.3			19.5		MAX 530	MIN 4.0	AC-FT 14140				

11183700 LITTLE PINE CREEK NEAR ALAMO, CA

LOCATION.--Lat 37°53'06", long 121°58'36", in Arroyo de las Nueces y Bolbones Grant, Contra Costa County, Hydrologic Unit 18050001, on right bank 200 ft (61 m) downstream from road ford, 1.2 mi (1.9 km) upstream from mouth, and 3.8 mi (6.1 km) northeast of Alamo.

DRAINAGE AREA.--1.22 mi² (3.16 km²).

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 520 ft (158 m), from topographic map.

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

AVERAGE DISCHARGE.--7 years, 0.22 ft³/s (0.006 m³/s), 159 acre-ft/yr (196,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 86 ft³/s (2.44 m³/s) Jan. 16, 1978, gage height, 2.18 ft (0.664 m), from rating curve extended above 12 ft³/s (0.34 m³/s) on basis of critical depth computation; no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.1 ft³/s (0.06 m³/s) Jan. 28, gage height 1.15 ft (0.351 m), no peak above base of 30 ft³/s (0.85 m³/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.01	.13	.10	.15					
2			0	.01	.11	.07	.13					
3			0	.02	.10	.06	.12					
4			0	.02	.10	.11	.10					
5			0	.02	.09	.11	.10					
6			0	.02	.08	.07	.10					
7			0	.02	.08	.06	.10					
8			0	.02	.09	.06	.10					
9			0	.02	.10	.05	.10					
10			0	.02	.08	.05	.10					
11			0	.02	.08	.05	.09					
12			0	.02	.07	.05	.09					
13			0	.02	.08	.20	.08					
14			0	.02	.10	.10	.07					
15			0	.02	.07	.24	.06					
16			0	.02	.07	.21	.06					
17			0	.02	.06	.13	.06					
18			0	.02	.05	.18	.07					
19			0	.02	.05	.41	.11					
20			0	.02	.05	.60	.08					
21			0	.02	.04	.61	.07					
22			0	.04	.05	.35	.05					
23			0	.05	.05	.27	.04					
24			0	.02	.09	.23	.04					
25			0	.02	.07	.35	.04					
26			0	.04	.05	.26	.06					
27			0	.61	.05	.21	.05					
28			0	.64	.07	.18	.02					
29			0	.65	---	.16	.01					
30			.01	.22	---	.14	0					
31		---	.01	.16	---	.14	---		---			---
TOTAL	0	0	.02	2.85	2.11	5.81	2.25	0	0	0	0	0
MEAN	0	0	.0006	.092	.075	.19	.075	0	0	0	0	0
MAX	0	0	.01	.65	.13	.61	.15	0	0	0	0	0
MIN	0	0	0	.01	.04	.05	0	0	0	0	0	0
AC-FT	0	0	.04	5.7	4.2	12	4.5	0	0	0	0	0
CAL YR 1980	TOTAL	199.44	MEAN .54	MAX	13	MIN 0	AC-FT 396					
WTR YR 1981	TOTAL	13.04	MEAN .036	MAX	.65	MIN 0	AC-FT 26					

11455900 NAPA RIVER AT CALISTOGA, CA

LOCATION.--Lat 38°34'38", long 122°34'49", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on right bank at end of Pine Street in Calistoga, 200 ft (61 m) downstream from bridge on State Highway 29, and 0.6 mi (1.0 km) downstream from Cyrus Creek.

DRAINAGE AREA.--21.9 mi² (56.7 km²).

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

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

REMARKS.--Records fair. Flow slightly regulated by Kimball Creek Reservoir 3.7 mi (6.0 km) upstream, capacity, 344 acre-ft (424,000 m³). No diversion above station.

AVERAGE DISCHARGE.--6 years, 20.2 ft³/s (0.572 m³/s), 14,630 acre-ft/yr (18.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,400 ft³/s (125 m³/s) Jan. 16, 1978, gage height, 17.21 ft (5.246 m); no flow many days in 1976, 1977, 1978, and 1979.

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

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Dec. 3	0945	1210	34.3	8.52	2.597
Jan. 27	1100	*1500	42.5	9.49	2.893

Minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Aug. 31 to Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.07	.31	2.0	63	33	27	3.6	1.2	.11	.06	.02
2	.07	.06	9.2	2.2	41	27	24	3.6	1.1	.12	.05	.02
3	.08	.06	462	2.7	33	23	19	3.5	.86	.10	.06	.03
4	.07	.06	162	2.3	26	39	15	3.3	.62	.09	.05	.03
5	.06	.06	23	2.0	21	31	14	3.2	.53	.09	.06	.04
6	.06	.06	11	2.0	16	21	14	3.2	.48	.10	.08	.03
7	.07	.12	6.4	1.8	14	18	12	3.0	.47	.09	.09	.03
8	.04	.11	4.1	1.8	13	16	11	3.0	.47	.08	.07	.03
9	.04	.08	2.7	1.7	11	14	9.8	2.9	.47	.08	.05	.03
10	.06	.08	2.2	1.7	9.6	12	8.9	2.8	.44	.08	.05	.04
11	.09	.08	2.0	1.7	9.0	11	7.3	2.7	.42	.07	.05	.04
12	.16	.08	1.8	1.7	8.1	10	6.6	2.5	.38	.07	.05	.04
13	.07	.08	1.4	1.6	82	9.4	7.1	2.4	.37	.07	.56	.04
14	.08	.08	1.2	1.5	235	8.4	6.6	2.4	.37	.06	2.2	.04
15	.08	.09	1.1	1.4	77	25	6.4	2.4	.37	.07	.38	.04
16	.09	.08	1.2	1.9	49	24	6.1	2.0	.35	.07	.06	.04
17	.09	.08	1.4	3.2	37	16	6.1	3.2	.33	.06	.05	.04
18	.08	.08	1.7	2.0	29	17	6.1	3.9	.30	.07	.03	.04
19	.09	.08	1.7	5.6	25	25	6.7	2.6	.25	.06	.08	.04
20	.09	.08	1.7	5.1	21	41	6.6	2.6	.24	.05	.07	.04
21	.07	.08	3.1	5.4	17	192	5.8	2.6	.27	.05	.05	.03
22	.07	.35	2.1	241	15	114	5.6	2.4	.25	.05	.04	.03
23	.07	.17	1.9	173	13	67	5.2	2.3	.23	.05	.04	.03
24	.07	.14	1.8	80	36	48	5.0	2.1	.22	.05	.04	.04
25	.08	.14	1.9	39	32	123	4.8	2.1	.26	.06	.03	.44
26	.08	.15	2.0	40	39	106	4.7	2.1	.21	.06	.03	.05
27	.08	.18	2.0	795	38	69	4.5	2.0	.14	.06	.03	.04
28	.06	.19	1.9	639	32	52	4.3	1.8	.14	.06	.03	.05
29	.06	.25	1.8	498	---	41	4.1	1.7	.10	.05	.03	.04
30	.06	.30	1.9	189	---	33	3.8	1.5	.12	.06	.03	.03
31	.07	---	2.0	98	---	29	---	1.3	---	.06	.02	---
TOTAL	2.31	3.52	720.51	2843.3	1041.7	1294.8	268.1	80.7	11.96	2.20	4.52	1.48
MEAN	.075	.12	23.2	91.7	37.2	41.8	8.94	2.60	.40	.071	.15	.049
MAX	.16	.35	462	795	235	192	27	3.9	1.2	.12	2.2	.44
MIN	.04	.06	.31	1.4	8.1	8.4	3.8	1.3	.10	.05	.02	.02
AC-FT	4.6	7.0	1430	5640	2070	2570	532	160	24	4.4	9.0	2.9
CAL YR 1980 TOTAL	12957.77			MEAN 35.4	MAX 1240	MIN .04	AC-FT 5700					
WTR YR 1981 TOTAL	6275.10			MEAN 17.2	MAX 795	MIN .02	AC-FT 12450					

11456000 NAPA RIVER NEAR ST. HELENA, CA

LOCATION.--Lat 38°29'52", long 122°25'37", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on right bank 0.2 mi (0.3 km) upstream from highway bridge, 1.3 mi (2.1 km) northeast of Zinfandel, and 2.5 mi (4.0 km) east of St. Helena.

DRAINAGE AREA.--81.4 mi² (210.8 km²).

PERIOD OF RECORD.--October 1929 to September 1932, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1929: Drainage area. WDR CA-78-2: 1977(M).

GAGE.--Water-stage recorder. Datum of gage is 170.12 ft (51.853 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1958, at datum 3.00 ft (0.914 m) higher. Nov. 22, 1958, to July 22, 1976, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good. Some regulation by Bell Canyon Reservoir since 1959, capacity, 2,530 acre-ft (3.12 hm³). Small diversions above station for irrigation of about 1,500 acres (6.07 km²).

AVERAGE DISCHARGE.--45 years, 92.4 ft³/s (2.617 m³/s), 66,940 acre-ft/yr (82.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s (357 m³/s) Dec. 22, 1955, gage height, 18.17 ft (5.538 m) present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,660 ft³/s (104 m³/s) Jan. 27, gage height, 10.35 ft (3.155 m), no peak above base of 4,200 ft³/s (119 m³/s); minimum daily, 0.26 ft³/s (0.007 m³/s) Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.51	1.1	2.6	8.4	160	97	94	18	8.4	.84	.35	.63
2	.48	1.1	7.6	8.4	140	83	89	16	6.8	1.2	.34	.63
3	.38	1.1	773	9.5	122	75	78	16	6.6	.99	.33	.63
4	.33	1.1	404	11	105	97	70	16	5.8	.59	.53	.63
5	.64	1.1	75	10	98	89	65	16	3.8	.50	1.0	.60
6	.90	1.1	39	9.0	88	75	64	16	3.0	.54	1.1	.54
7	.45	1.1	35	8.5	77	67	58	16	2.8	.66	1.2	.52
8	.34	1.1	35	7.8	73	64	52	16	2.5	1.4	1.2	.38
9	.33	1.3	17	7.8	69	61	48	15	3.0	1.4	1.2	.29
10	.72	1.7	15	7.8	68	56	44	14	3.6	1.3	1.0	.26
11	.93	1.9	13	7.8	68	54	40	12	4.2	.59	.95	.34
12	1.2	1.9	12	7.8	68	48	34	11	4.5	.45	.95	.40
13	1.2	1.8	11	7.8	140	44	34	10	4.2	.42	.95	.41
14	1.2	1.6	10	7.8	431	41	32	11	3.2	.99	.93	.43
15	1.2	1.6	10	7.8	202	72	27	12	3.3	1.1	.84	.44
16	1.3	1.6	9.6	7.8	150	88	27	12	3.6	1.1	.84	.42
17	1.5	1.6	8.8	12	130	65	28	12	3.5	.71	.84	.42
18	1.6	1.8	8.4	11	95	71	29	13	2.9	.38	.84	.42
19	1.6	1.9	8.4	16	78	85	31	13	2.5	.36	.83	.40
20	1.6	1.9	8.4	21	78	120	31	12	2.2	.35	.74	.40
21	1.5	1.9	13	18	78	398	29	12	1.9	.33	.74	.39
22	1.4	2.2	10	350	75	263	28	12	1.1	.41	.74	.39
23	1.4	2.3	2.8	321	68	183	26	11	.81	.51	.79	.39
24	1.3	2.4	2.8	173	89	146	25	10	.74	.85	.79	.40
25	1.3	2.4	2.8	98	95	303	24	10	.71	1.0	.74	.41
26	1.2	2.4	2.8	139	94	279	24	10	.60	.99	.74	.40
27	1.2	2.4	2.8	2320	97	197	23	10	.54	.95	.74	.41
28	1.1	2.4	3.9	1810	88	159	21	10	.54	.95	.74	.42
29	1.1	2.4	8.4	1190	---	134	21	9.6	.55	.77	.73	.42
30	1.1	2.5	8.4	415	---	110	19	9.0	.54	.41	.63	.49
31	1.1	---	8.4	181	---	98	---	9.0	---	.37	.64	---
TOTAL	32.11	52.7	1568.9	7210.0	3124	3722	1215	389.6	88.43	23.41	24.98	13.31
MEAN	1.04	1.76	50.6	233	112	120	40.5	12.6	2.95	.76	.81	.44
MAX	1.6	2.5	773	2320	431	398	94	18	8.4	1.4	1.2	.63
MIN	.33	1.1	2.6	7.8	68	41	19	9.0	.54	.33	.33	.26
AC-FT	64	105	3110	14300	6200	7380	2410	773	175	46	50	26
CAL YR 1980	TOTAL	44749.94	MEAN	122	MAX	3770	MIN	.33	AC-FT	88760		
WTR YR 1981	TOTAL	17464.44	MEAN	47.8	MAX	2320	MIN	.26	AC-FT	34640		

NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CA
(National stream-quality accounting network station)

LOCATION.--Lat 38°22'06", long 122°18'08", in Yajome Grant, Napa County, Hydrologic Unit 18050002, on left bank at downstream side of Oak Knoll Avenue bridge, 0.4 mi (0.6 km) downstream from Dry Creek, and 5 mi (8 km) north of Napa.

DRAINAGE AREA.--218 mi² (565 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to September 1932, October 1959 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1930(M).

GAGE.--Water-stage recorder. Datum of gage is 24.74 ft (7.541 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow slightly regulated by Bell Canyon Reservoir beginning in 1959, capacity, 2,530 acre-ft (3.12 hm³) and Lake Hennessey beginning in December 1945, capacity, 31,000 acre-ft (38.2 hm³). Diversions for irrigation of about 10,000 acres (40.5 km²) above station.

AVERAGE DISCHARGE.--25 years, 177 ft³/s (5.013 m³/s), 128,200 acre-ft/yr (158 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,900 ft³/s (479 m³/s) Jan. 31, 1963, gage height, 27.59 ft (8.409 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,780 ft³/s (135 m³/s) Jan. 27, gage height, 13.66 ft (4.164 m), no peak above base of 5,000 ft³/s (142 m³/s); minimum daily, 0.40 ft³/s (0.011 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	3.4	4.3	18	376	157	172	35	20	2.9	1.8	1.5
2	2.2	3.0	5.0	18	287	131	167	33	17	3.3	1.9	1.5
3	2.2	2.7	673	19	220	120	147	33	17	2.9	1.8	1.5
4	2.1	2.8	979	22	180	128	127	32	17	2.2	1.7	1.7
5	2.3	2.8	171	20	157	147	118	32	14	5.2	1.5	1.5
6	2.4	2.8	78	19	144	122	117	32	13	5.4	1.8	1.5
7	2.4	2.8	53	19	119	107	106	31	10	2.9	1.7	1.4
8	2.1	2.7	40	18	112	104	99	30	9.1	1.4	1.5	.93
9	2.1	2.7	31	15	106	97	90	29	8.3	1.4	1.7	1.5
10	2.0	2.8	24	14	92	89	81	27	7.1	.46	1.9	1.5
11	1.9	3.2	23	13	89	88	66	25	7.6	1.6	2.0	1.5
12	2.4	3.5	21	13	84	83	59	21	7.4	3.7	2.0	1.5
13	2.5	3.6	18	13	134	77	63	20	7.3	3.7	2.1	1.7
14	3.2	3.7	17	12	582	75	61	23	7.3	3.0	1.8	1.7
15	3.4	3.9	16	12	341	114	58	25	6.8	1.8	1.7	1.6
16	3.1	3.6	15	13	247	178	55	24	5.2	1.1	2.7	1.1
17	3.1	3.7	15	14	197	112	57	25	5.0	.94	2.9	1.4
18	3.1	3.4	14	17	167	133	57	26	6.0	1.1	6.1	.84
19	3.2	3.7	14	16	150	183	59	25	3.5	1.2	11	1.6
20	3.3	3.9	14	24	132	219	58	25	2.5	1.3	10	1.4
21	3.5	4.0	16	24	124	722	54	25	4.6	1.5	9.8	1.5
22	3.5	4.2	25	217	115	533	53	25	2.7	1.7	2.9	1.5
23	3.3	4.2	22	636	112	360	50	24	1.2	2.0	1.7	.99
24	3.3	3.9	19	341	137	287	49	23	2.0	1.6	1.8	.66
25	3.4	4.0	18	166	190	544	47	22	1.5	1.7	1.9	1.4
26	3.4	4.1	18	120	139	536	47	22	1.4	2.0	.68	2.1
27	3.2	4.2	18	2670	148	378	44	21	1.2	2.4	1.3	2.1
28	3.0	3.8	18	2790	134	302	40	21	1.0	2.3	1.4	2.2
29	3.1	3.3	18	2220	---	250	39	20	1.5	2.0	1.3	1.8
30	3.2	3.9	18	890	---	205	38	19	3.6	1.4	1.3	.40
31	3.5	---	18	550	---	179	---	20	---	1.7	1.4	---
TOTAL	87.8	104.3	2433.3	10953	5015	6760	2278	795	211.8	67.80	85.08	43.52
MEAN	2.83	3.48	78.5	353	179	218	75.9	25.6	7.06	2.19	2.74	1.45
MAX	3.5	4.2	979	2790	582	722	172	35	20	5.4	11	2.2
MIN	1.9	2.7	4.3	12	84	75	38	19	1.0	.46	.68	.40
AC-FT	174	207	4830	21730	9950	13410	4520	1580	420	134	169	86
CAL YR 1980	TOTAL	106095.10	MEAN	290	MAX	7650	MIN	1.9	AC-FT	210400		
WTR YR 1981	TOTAL	28834.60	MEAN	79.0	MAX	2790	MIN	.40	AC-FT	57190		

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 September 1981 (discontinued).

WATER TEMPERATURES: Water years 1977 to September 1981 (discontinued).

SEDIMENT RECORDS: Water years 1971, 1977 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1978 to September 1981.

WATER TEMPERATURES: October 1976 to September 1981.

SEDIMENT RECORDS: October 1976 to September 1978.

INSTRUMENTATION: Water-quality monitor June 1978 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 500 micromhos Sept. 1, 1981; minimum recorded, 81 micromhos Mar. 1, 1979.

WATER TEMPERATURES: Maximum recorded, 28.0°C July 13, 1979; minimum recorded, 3.0°C Dec. 31, 1978; Jan. 1, 1979.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 500 micromhos Sept. 1; minimum recorded, 142 micromhos Dec. 4.

WATER TEMPERATURES: Maximum recorded, 27.5°C July 14; minimum recorded 7.0°C several days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 18...	1145	3.5	494	8.4	10.5	770	.60	14.8	131	14	K9
JAN 07...	1200	19	378	8.0	9.5	765	.90	10.8	94	--	--
MAR 11...	1245	89	290	7.7	14.0	765	3.4	10.4	100	91	26
MAY 19...	1245	26	382	7.8	18.0	760	2.0	9.7	100	28	25
JUL 22...	1300	1.6	387	7.8	23.5	760	1.6	8.3	98	K13	K4
SEP 15...	1245	1.8	460	7.9	18.5	765	.90	8.2	87	K2	K5

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 18...	210	12	32	32	21	18	.6	2.3	200	40
JAN 07...	140	14	23	21	25	27	.9	2.2	130	35
MAR 11...	110	--	21	15	18	25	.7	2.0	100	28
MAY 19...	160	--	27	22	22	23	.8	2.2	140	33
JUL 22...	170	--	26	25	19	20	.7	2.2	160	10
SEP 15...	200	--	30	31	22	19	.8	2.5	190	26

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 1980 TO SEPTEMBER 1981

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)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
NOV 18...	18	.2	23	297	294	.40	2.8	1.2	1.2	.09
JAN 07...	24	.3	34	239	249	.33	12.3	1.3	1.3	.05
MAR 11...	12	.2	34	188	196	.26	45.2	1.8	2.0	.04
MAY 19...	15	.2	37	258	250	.35	18.1	1.7	1.7	.13
JUL 22...	10	.1	29	--	212	.20	.92	.11	.09	.08
SEP 15...	19	.2	25	274	270	.37	1.3	.14	<.10	.08

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
NOV 18...	.06	.40	.33	.39	1.7	.02	.02	--	2.3	--
JAN 07...	.07	.95	.62	.69	2.3	.10	.09	--	4.6	.0
MAR 11...	.01	.39	.41	.42	2.2	.09	.06	5.4	--	--
MAY 19...	.09	1.3	.15	.24	3.1	.08	.05	--	12	--
JUL 22...	.00	.44	.20	.20	.63	.05	.04	7.8	--	--
SEP 15...	.07	.45	.40	.47	.67	.02	.01	--	2.2	.2

See footnote at end of table.

11458000 NAPA RIVER NEAR NAPA, CA--Continued
 WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 18...	1145	1	1	100	80	0	<1	0	0	2
JAN 07...	1200	1	2	100	70	0	<1	10	0	0
MAY 19...	1245	2	2	0	80	0	<1	10	0	1
SEP 15...	1245	2	2	100	86	0	<1	10	0	0

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 18...	<3	5	1	160	<10	2	2	10	4	.0
JAN 07...	<3	5	0	230	30	0	2	30	20	.0
MAY 19...	<3	4	1	250	20	4	1	30	10	.1
SEP 15...	<3	4	1	140	<10	36	0	20	13	.2

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 18...	.0	6	6	0	0	0	0	30	7
JAN 07...	.0	2	0	0	0	0	0	40	9
MAY 19...	.1	6	1	0	0	0	0	0	5
SEP 15...	.0	0	1	0	0	0	0	40	9

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

11458000 NAPA RIVER NEAR NAPA, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE TIME	NOV 18,80 1145	MAR 11,81 1245	MAY 19,81 1245	JUL 22,81 1300	SEP 15,81 1245
TOTAL CELLS/ML	150	340	610	5300	28
DIVERSITY: DIVISION	1.2	1.3	1.9	1.5	0.0
..CLASS	1.2	1.3	1.9	1.5	0.0
..ORDER	1.9	2.8	2.8	2.5	1.0
...FAMILY	1.9	2.8	3.1	2.7	1.0
....GENUS	1.9	2.8	3.2	3.0	1.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)										
..BACILLARIOPHYCEAE										
...ACHNANTHALES										
....ACHNANTHACEAE										
....ACHNANTHES	90#	58	52#	15	39	6	--	-	--	-
....COCCONEIS	--	-	--	-	13	2	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	60	1	14#	50
..BACILLARIALES										
...NITZSCHIA										
....NITZSCHIA	13	8	78#	23	90	15	620	12	--	-
..EUPODISCALES										
...COSCONODISCACEAE										
....CYCLOTELLA	--	-	13	4	26	4	60	1	--	-
....MELOSIRA	--	-	--	-	--	-	1200#	22	--	-
..FRAGILARIALES										
...FRAGILARIACEAE										
....DIATOMA	--	-	--	-	13	2	--	-	14#	50
....FRAGILARIA	--	-	--	-	13	2	--	-	--	-
....SYNEDRA	--	-	26	8	--	-	40	1	--	-
..NAVICULALES										
...GOMPHONEMACEAE										
....GOMPHONEMA	13	8	--	-	--	-	*	0	--	-
...NAVICULACEAE										
....NAVICULA	--	-	52#	15	26	4	560	11	--	-
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....DICTYOSPHAERIAEAE										
....DICTYOSPHAERIUM	--	-	13	4	26	4	400	8	--	-
...OOCYSTACEAE										
....KIRCHNERIELLA	--	-	--	-	--	-	60	1	--	-
....SELENASTRUM	--	-	--	-	26	4	--	-	--	-
...SCENEDESMACEAE										
....COELASTRUM	--	-	--	-	--	-	160	3	--	-
....GLOEOACTINIUM	--	-	--	-	--	-	40	1	--	-
....SCENEDESMUS	--	-	--	-	77	13	160	3	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	13	8	39	12	26	4	40	1	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
....CRYPTOMONADACEAE										
....CRYPTOMONAS	13	8	--	-	26	4	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
....CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	1500#	29	--	-
....ANACYSTIS	13	8	65#	19	190#	32	220	4	--	-
..NOSTOCALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	120	2	--	-
EUGLENOPHYTA (EUGLENOIDS)										
..EUGLENOPHYCEAE										
...EUGLENALES										
....EUGLENACEAE										
....EUGLENA	--	-	--	-	13	2	--	-	--	-

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	391	379	387
2							---	---	---	388	376	383
3							461	148	359	379	367	377
4							217	142	172	388	369	379
5							289	221	257	388	369	380
6							327	290	309	379	364	374
7							351	328	339	381	369	375
8							368	351	360	381	362	375
9							379	369	373	378	362	374
10							387	375	380	394	363	382
11							393	379	388	396	375	390
12							399	391	394	393	378	386
13							402	388	397	393	364	381
14							402	390	397	396	363	384
15							403	390	399	397	372	384
16							411	394	403	391	367	382
17							410	400	405	391	369	381
18							408	396	403	391	374	385
19							411	400	405	393	372	384
20							413	402	408	381	364	372
21							408	400	404	371	362	365
22							403	390	397	371	182	331
23							408	399	404	218	163	184
24							407	394	401	242	215	226
25							397	387	394	262	236	250
26							399	388	395	263	255	260
27							399	393	394	---	---	---
28							399	387	393	---	---	---
29							394	385	392	---	---	---
30							393	382	389	---	---	---
31							393	384	389	---	---	---
MONTH							461	142	376	397	163	355

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---				---	---	---
2	---	---	---	---	---	---				---	---	---
3	---	---	---	---	---	---				---	---	---
4	362	324	345	---	---	---				---	---	---
5	370	339	355	---	---	---				---	---	---
6	378	354	366	---	---	---				---	---	---
7	383	360	374	---	---	---				---	---	---
8	384	369	377	---	---	---				---	---	---
9	384	355	373	---	---	---				---	---	---
10	379	327	349	---	---	---				---	---	---
11	345	283	299	---	---	---				---	---	---
12	308	280	294	307	293	297				---	---	---
13	---	---	---	319	294	307				---	---	---
14	---	---	---	319	294	307				---	---	---
15	---	---	---	308	266	287				---	---	---
16	---	---	---	269	252	261				---	---	---
17	---	---	---	268	250	256				---	---	---
18	---	---	---	274	263	269				---	---	---
19	---	---	---	281	266	275				---	---	---
20	---	---	---	296	279	287				351	346	348
21	---	---	---	---	---	---				347	344	345
22	---	---	---	---	---	---				343	339	342
23	---	---	---	---	---	---				343	337	340
24	---	---	---	---	---	---				343	333	338
25	---	---	---	---	---	---				344	340	342
26	---	---	---	---	---	---				343	340	342
27	---	---	---	---	---	---				344	342	343
28	---	---	---	---	---	---				343	340	341
29	---	---	---	---	---	---				344	341	343
30	---	---	---	---	---	---				343	339	342
31	---	---	---	---	---	---				342	337	340
MONTH	---	---	---	---	---	---				---	---	---

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	340	337	338	---	---	---	445	434	439	500	486	494
2	343	337	340	---	---	---	449	438	443	497	483	491
3	342	338	340	---	---	---	453	440	447	491	480	488
4	340	334	338	---	---	---	455	445	450	---	---	---
5	341	337	339	---	---	---	458	445	452	---	---	---
6	340	339	340	---	---	---	460	451	455	---	---	---
7	339	338	339	---	---	---	463	453	458	---	---	---
8	338	336	337	---	---	---	463	454	458	---	---	---
9	338	334	336	---	---	---	464	453	458	---	---	---
10	338	336	337	---	---	---	464	453	458	---	---	---
11	338	329	332	---	---	---	465	456	459	---	---	---
12	354	329	337	---	---	---	464	456	459	---	---	---
13	373	339	349	---	---	---	466	455	459	---	---	---
14	375	328	348	---	---	---	467	456	461	---	---	---
15	344	319	329	---	---	---	469	456	463	---	---	---
16	335	326	329	---	---	---	472	460	466	---	---	---
17	343	327	331	---	---	---	472	463	467	---	---	---
18	338	327	330	---	---	---	478	465	474	---	---	---
19	---	---	---	---	---	---	495	473	484	---	---	---
20	---	---	---	---	---	---	472	425	446	---	---	---
21	---	---	---	---	---	---	422	414	417	---	---	---
22	---	---	---	---	---	---	421	414	416	---	---	---
23	---	---	---	---	---	---	441	418	425	---	---	---
24	---	---	---	428	418	422	456	422	435	---	---	---
25	---	---	---	432	421	426	492	424	454	---	---	---
26	---	---	---	438	424	431	477	423	440	---	---	---
27	---	---	---	440	435	436	461	433	445	---	---	---
28	---	---	---	439	432	435	478	437	450	---	---	---
29	---	---	---	436	429	432	487	451	473	---	---	---
30	---	---	---	436	428	431	495	474	484	---	---	---
31	---	---	---	439	428	433	492	472	481	---	---	---
MONTH	---	---	---	---	---	---	495	414	454	---	---	---
YEAR	500	142	379									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.0	19.0	13.5	12.5	10.5	9.5	11.0	10.0	10.0	9.5	13.0	11.5
2	23.5	19.0	15.0	12.5	11.0	10.5	10.0	9.5	10.5	10.0	13.0	11.5
3	24.0	19.5	15.5	13.5	13.0	11.0	10.5	9.5	11.5	10.0	13.0	12.5
4	24.0	19.5	15.5	14.0	13.0	12.0	12.0	10.0	12.0	11.0	13.0	12.0
5	23.0	19.5	15.0	14.0	11.5	10.5	11.0	9.5	12.0	11.0	13.0	11.0
6	22.0	19.0	15.0	13.5	10.5	9.0	11.5	9.5	12.0	10.5	13.0	11.5
7	22.5	18.5	15.0	14.5	9.5	8.5	10.0	9.0	12.5	11.0	13.0	12.0
8	22.0	18.5	14.5	13.5	9.0	8.0	9.5	9.0	12.5	11.5	13.5	11.5
9	22.5	18.5	14.0	12.5	8.5	7.5	10.0	8.5	13.0	11.5	14.0	12.5
10	21.0	18.5	13.5	12.5	8.5	7.0	9.5	8.0	13.5	12.5	14.0	13.0
11	18.5	17.5	13.5	12.5	9.0	7.0	9.5	7.5	14.0	13.5	15.0	13.5
12	19.0	17.5	12.5	11.0	8.0	7.0	9.0	8.0	14.5	13.0	14.5	14.0
13	18.0	16.5	12.0	10.5	8.0	7.0	10.0	8.0	14.5	14.0	14.0	13.5
14	16.5	15.5	11.5	10.0	8.0	7.0	10.0	8.0	14.0	13.0	14.0	13.0
15	16.0	14.5	11.5	10.5	8.5	7.5	10.5	8.0	14.0	13.5	14.0	12.5
16	17.0	14.0	12.0	11.0	9.5	8.0	11.5	9.5	14.0	13.5	13.5	12.0
17	17.5	14.0	12.0	11.0	10.0	8.0	11.5	10.5	14.5	14.0	14.0	12.5
18	16.0	14.0	11.5	10.5	10.5	9.0	13.0	10.5	14.5	12.5	13.5	12.5
19	17.0	14.0	11.0	10.5	10.5	9.5	12.0	11.5	14.5	14.5	13.5	12.5
20	16.5	14.0	11.0	10.0	11.0	9.5	13.0	12.0	14.5	12.5	12.5	11.5
21	16.5	14.0	10.5	9.5	10.5	10.0	13.0	12.5	13.5	12.0	12.5	11.0
22	17.0	14.5	12.0	10.5	12.0	10.5	13.0	12.5	13.5	12.0	13.0	12.5
23	17.0	14.5	12.5	12.0	12.5	11.0	12.5	11.5	14.0	12.5	13.0	12.5
24	16.0	15.0	12.0	11.0	11.5	10.5	11.5	10.0	13.5	12.5	13.5	13.0
25	16.0	15.0	11.0	10.0	12.5	10.5	10.5	9.5	12.5	11.5	14.0	13.5
26	15.5	14.0	10.5	9.0	12.5	10.5	10.0	9.5	12.0	11.0	14.0	13.0
27	15.0	13.5	10.5	9.0	11.5	10.5	10.5	9.5	13.0	11.0	13.5	13.0
28	15.5	14.0	10.5	9.0	13.0	10.5	11.5	10.5	13.0	12.0	14.0	13.5
29	15.0	13.5	10.5	9.5	11.5	10.5	10.5	9.5	---	---	14.5	14.0
30	14.0	13.0	11.5	10.5	12.5	10.5	10.5	9.5	---	---	14.5	14.0
31	14.0	12.5	---	---	11.5	10.5	10.0	9.5	---	---	14.5	13.5
MONTH	24.0	12.5	15.5	9.0	13.0	7.0	13.0	7.5	14.5	9.5	15.0	11.0

11458000 NAPA RIVER NEAR NAPA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	14.0	18.5	18.5	20.5	19.0	23.5	20.5	23.5	18.5	22.5	17.5
2	14.5	14.0	18.5	18.0	21.0	19.5	22.5	21.0	24.0	17.5	22.5	18.0
3	14.5	14.0	18.0	17.5	21.0	19.5	22.0	21.0	24.5	18.0	22.5	18.0
4	15.0	14.5	18.0	17.0	21.0	19.5	22.0	21.5	24.5	18.0	22.0	17.5
5	15.5	15.0	17.5	17.0	21.5	20.0	22.5	22.0	25.5	19.5	22.0	17.0
6	16.0	15.0	17.5	16.5	22.0	20.0	22.5	21.0	26.0	19.5	21.5	17.0
7	17.5	15.5	17.5	16.5	21.5	20.0	22.5	21.0	26.0	20.5	21.5	17.0
8	17.0	14.5	17.5	16.5	22.0	20.5	21.5	21.0	25.5	20.5	21.0	17.0
9	16.0	14.5	17.5	17.5	22.0	20.5	21.5	21.0	24.5	20.0	20.5	16.5
10	16.0	14.5	18.0	17.5	21.5	20.0	24.0	19.5	24.5	19.5	21.0	17.0
11	16.0	14.0	18.0	18.0	22.5	19.0	25.0	18.0	25.0	20.0	20.5	17.0
12	16.0	14.5	18.0	18.0	22.5	18.5	25.0	18.0	24.0	19.5	20.5	16.5
13	16.0	14.5	18.0	18.0	22.5	18.5	26.5	18.5	23.5	19.0	20.5	16.5
14	16.0	15.0	18.0	17.5	22.0	17.5	27.5	20.5	24.0	18.5	20.0	16.5
15	16.0	15.0	18.0	17.5	22.5	18.5	26.5	21.5	24.5	18.5	26.0	16.0
16	16.5	15.0	18.0	17.0	23.0	18.5	25.0	21.5	24.5	18.5	25.5	21.0
17	16.5	16.0	18.0	17.0	23.0	18.5	24.5	21.0	23.5	18.0	26.0	21.0
18	16.5	15.5	17.5	17.5	23.0	18.5	25.5	20.5	22.0	18.5	25.5	21.0
19	15.5	14.5	19.0	17.0	23.5	18.5	27.0	20.5	22.5	18.0	26.0	21.0
20	16.0	14.0	19.5	16.5	23.0	19.0	27.0	21.0	22.5	17.5	25.5	20.5
21	16.5	15.0	20.0	17.0	24.5	19.5	26.0	22.0	22.0	17.0	25.0	20.0
22	17.0	16.5	21.5	18.0	22.0	19.5	26.0	22.5	22.5	18.5	24.5	19.5
23	17.5	17.0	21.5	18.5	22.0	19.0	26.0	20.5	22.5	18.0	21.5	19.0
24	18.0	17.5	21.5	18.5	22.0	18.5	25.5	20.0	22.5	17.0	20.0	17.5
25	18.0	16.5	21.5	19.0	22.0	18.5	25.5	20.0	23.0	17.0	23.0	18.0
26	16.5	15.0	21.0	19.0	24.5	18.5	25.5	19.5	23.0	17.0	23.5	18.5
27	16.5	15.0	20.5	19.0	25.5	22.0	25.0	19.5	24.0	17.5	22.0	20.5
28	17.0	16.5	21.0	19.0	25.0	23.0	25.5	19.5	24.0	18.0	22.0	19.0
29	18.0	17.0	20.5	19.0	24.5	21.5	25.0	19.5	23.5	18.0	22.5	18.0
30	18.5	18.0	20.5	19.0	24.0	21.0	24.0	18.5	22.5	17.5	22.0	17.5
31	---	---	20.5	19.0	---	---	23.5	18.5	22.5	17.5	---	---
MONTH	18.5	14.0	21.5	16.5	25.5	17.5	27.5	18.0	26.0	17.0	26.0	16.0
YEAR	27.5	7.0										

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. SIEVE DIAM. % FINER THAN .062 MM
NOV						
18...	1120	10.5	3.5	1	.01	89
JAN						
07...	1245	10.5	20	4	.22	81
MAR						
11...	1120	14.0	85	9	2.1	77
MAY						
19...	1400	18.0	24	7	.45	79
JUL						
22...	1135	21.0	1.7	6	.03	66
SEP						
15...	1125	18.5	1.8	4	.02	57

11458100 MILLIKEN CREEK NEAR NAPA, CA

LOCATION.--Lat 38°20'19", long 122°16'06", in Yajome Grant, Napa County, Hydrologic Unit 18050002, on right bank at upstream side of Hedgeside Road bridge, 3.0 mi (4.8 km) northwest of town of Napa.

DRAINAGE AREA.--17.3 mi² (44.8 km²).

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

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 km³) and by several small lakes and diversion dams on the Silverado Golf Course; diversions above station for irrigation of about 500 acres (2.02 km²).

AVERAGE DISCHARGE.--11 years, 17.3 ft³/s (0.490 m³/s), 12,530 acre-ft/yr (15.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft³/s (89.5 m³/s), Feb. 19, 1980, gage height, 9.36 ft (2.853 m), from rating curve extended above 1,100 ft³/s (31.2 m³/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.--Maximum discharge 425 ft³/s (12.0 m³/s) Jan. 27, gage height 3.22 ft (0.981 m), no peak above base of 600 ft³/s (17 m³/s); no flow for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.79	.84	.64	9.2	3.1	13	4.0	1.1	.65	.05	0
2	2.1	.74	13	.62	7.0	2.4	16	3.6	4.0	.35	.12	0
3	.90	2.1	95	.74	5.4	2.6	11	4.3	.97	.30	.19	0
4	.52	.97	30	.86	4.3	6.9	9.0	4.0	.62	.38	.28	0
5	.74	.89	12	.87	3.6	6.8	7.1	3.5	.56	.30	.39	0
6	.42	1.1	6.2	.98	3.1	4.6	7.1	3.0	.59	.23	.23	.01
7	.76	1.1	4.5	.82	2.6	3.8	8.1	2.6	.75	.17	.17	.14
8	1.1	.62	3.3	1.3	2.3	3.6	7.3	2.8	.51	.24	.22	.15
9	2.6	.75	2.9	.78	1.9	3.3	6.6	2.3	.68	.35	.97	.12
10	7.5	.76	2.5	.53	2.0	2.8	5.2	2.9	.55	.52	.20	.17
11	1.2	.74	2.2	.50	1.9	2.8	5.6	2.2	.37	.31	.22	.38
12	1.3	.75	2.0	.45	2.0	3.7	3.8	2.4	.33	.20	.07	.31
13	5.6	1.1	1.8	.44	5.0	3.2	5.0	2.3	.34	.14	.07	.50
14	3.9	.97	1.7	.45	7.8	1.9	5.1	2.9	.33	.10	.39	.42
15	1.1	.97	1.6	.46	7.6	14	1.9	2.5	.12	.07	.17	.29
16	1.2	1.7	1.5	.44	7.0	16	1.5	2.4	0	.03	.29	.58
17	1.4	1.0	1.3	.54	5.6	8.7	4.5	2.8	0	.04	.80	2.7
18	1.5	1.5	1.3	.49	4.0	12	5.0	1.8	.04	.10	.81	1.0
19	1.3	1.0	2.4	.79	3.2	15	4.7	.07	.10	.17	.48	.42
20	1.0	2.2	1.4	.64	2.1	15	4.6	.05	0	.13	1.2	.48
21	1.6	1.7	1.4	.58	1.5	34	4.9	2.5	.04	.07	2.1	.74
22	1.2	1.3	1.4	4.0	1.7	18	6.5	2.5	.29	0	1.5	.52
23	1.2	.90	.96	17	1.6	12	4.9	2.1	2.1	0	1.5	.70
24	1.1	1.0	.81	9.0	2.0	8.9	4.4	2.3	2.4	.05	1.0	.42
25	.75	1.1	.83	5.2	5.5	29	4.3	2.2	.40	.12	1.4	.35
26	.78	1.0	.87	5.6	3.3	20	4.2	3.0	.24	.24	.55	.61
27	.32	.92	.95	165	3.3	13	4.5	2.5	.41	.13	.01	.40
28	.99	1.0	.97	80	2.8	9.5	4.5	2.8	.45	.07	0	.08
29	2.5	.94	.95	64	---	7.7	4.3	1.5	.34	.13	.04	0
30	1.1	.90	.82	20	---	7.5	4.0	.81	1.0	.27	.05	.09
31	.98	---	.70	13	---	11	---	1.1	---	.22	.10	---
TOTAL	50.16	32.51	198.10	396.72	109.3	302.8	178.6	75.73	19.63	6.08	15.57	11.58
MEAN	1.62	1.08	6.39	12.8	3.90	9.77	5.95	2.44	.65	.20	.50	.39
MAX	7.5	2.2	95	165	9.2	34	16	4.3	4.0	.65	2.1	2.7
MIN	.32	.62	.70	.44	1.5	1.9	1.5	.05	0	0	0	0
AC-FT	99	64	393	787	217	601	354	150	39	12	31	23
CAL YR 1980	TOTAL	10389.16	MEAN	28.4	MAX	1190	MIN	0	AC-FT	20610		
WTR YR 1981	TOTAL	1396.78	MEAN	3.83	MAX	165	MIN	0	AC-FT	2770		

11458300 NAPA CREEK AT NAPA, CA

LOCATION.--Lat 38°18'07", long 122°18'10", in Napa Grant, Napa County, Hydrologic Unit 18050002, on left bank 150 ft (46 m) upstream from bridge on State Highway 29 in town of Napa, 0.6 mi (1.0 km) downstream from confluence of Redwood and Browns Creeks.

DRAINAGE AREA.--14.9 mi² (38.6 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 32.60 ft (9.936 m) National Geodetic Vertical Datum of 1929 (levels by county of Napa).

REMARKS.--Records good, except those for period of no gage-height record, Aug. 8 to Sept. 9, which are fair. No regulation; small diversions above station for domestic use.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,660 ft³/s (75.3 m³/s) Jan. 16, 1978, gage height, 11.16 ft (3.402 m), from rating curve extended above 1,100 ft³/s (31.2 m³/s); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 454 ft³/s (12.9 m³/s) Jan. 27, gage height, 4.32 ft (1.317 m), no peak above base of 600 ft³/s (17 m³/s); no flow Sept 8-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.01	.07	.29	12	5.7	12	1.2	.15	.12	.14	.01
2	.04	.01	4.7	.29	9.5	5.0	11	.98	.15	.14	.14	.01
3	.05	.02	82	.33	7.5	4.3	9.1	.94	.15	.12	.14	.01
4	.05	.02	29	.33	5.9	20	8.6	.86	.15	.11	.14	.01
5	.05	.04	4.1	.33	5.6	11	7.2	.75	.15	.40	.13	.01
6	.05	.07	2.0	.29	5.1	6.9	6.7	.69	.14	.14	.12	.01
7	.05	.07	1.4	.29	4.6	5.7	6.4	.64	.14	.09	.12	.01
8	.05	.07	.66	.29	4.2	5.3	5.7	.62	.14	.07	.10	0
9	.10	.07	.47	.29	4.2	4.9	5.2	.58	.14	.07	.10	0
10	.09	.07	.38	.29	3.3	4.4	4.9	.56	.12	.06	.09	0
11	.07	.08	.37	.26	3.7	3.9	4.4	.51	.13	.05	.10	0
12	.47	.08	.37	.26	3.7	3.1	3.7	.47	.11	.05	.07	.03
13	.08	.07	.37	.23	7.3	9.7	3.7	.47	.10	.04	.06	.02
14	.09	.07	.37	.23	20	4.4	3.6	.48	.11	.03	.06	.02
15	.04	.07	.37	.23	8.6	44	3.4	.47	.11	.03	.05	.02
16	.03	.04	.37	.55	6.1	26	3.1	.44	.11	.05	.05	.02
17	.02	.04	.37	.84	5.2	11	2.6	.37	.09	.06	.04	.02
18	.09	.04	.37	.35	4.5	33	2.2	1.8	.09	.06	.04	.02
19	.04	.04	.37	1.7	4.0	32	3.9	.65	.09	.03	.04	.03
20	.03	.04	.37	.62	3.5	41	2.9	.47	.09	.01	.05	.04
21	.03	.04	1.8	.49	2.9	129	2.1	.33	.09	.03	.03	.04
22	.03	.49	.66	26	2.4	53	1.8	.33	.09	.04	.03	.04
23	.03	.26	.40	31	2.4	33	1.5	.32	.10	.05	.03	.05
24	.03	.10	.33	11	4.8	24	1.3	.29	.11	.05	.04	.17
25	.03	.08	.33	4.5	8.0	109	1.3	.29	.14	.04	.04	.21
26	.04	.07	.33	6.9	5.2	55	1.5	.29	.17	.03	.03	.03
27	.04	.07	.33	204	4.2	34	1.6	.26	.14	.03	.03	.02
28	.02	.07	.35	172	5.1	25	1.5	.26	.13	.03	.02	.02
29	.01	.07	.35	126	---	20	1.3	.26	.11	.04	.02	.02
30	.01	.07	.33	36	---	16	1.3	.25	.10	.07	.02	.01
31	.01	---	.33	19	---	14	---	.18	---	.12	.02	---
TOTAL	1.80	2.34	134.02	645.18	163.5	793.3	125.5	17.01	3.64	2.26	2.09	.90
MEAN	.058	.078	4.32	20.8	5.84	25.6	4.18	.55	.12	.073	.067	.030
MAX	.47	.49	82	204	20	129	12	1.8	.17	.40	.14	.21
MIN	.01	.01	.07	.23	2.4	3.1	1.3	.18	.09	.01	.02	0
AC-FT	3.6	4.6	266	1280	324	1570	249	34	7.2	4.5	4.1	1.8
CAL YR 1980 TOTAL	9276.05			25.3	MAX 731	MIN .01	AC-FT 18400					
WTR YR 1981 TOTAL	1891.54			5.18	MAX 204	MIN 0	AC-FT 3750					

NAPA RIVER BASIN

11458350 TULUCAY CREEK AT NAPA, CA

LOCATION.--Lat 38°17'09", long 122°16'29", in Tulucay Grant, Napa County, Hydrologic Unit 18050002, on left bank 150 ft (46 m) downstream from bridge on State Highways 12 and 29 in Napa.

DRAINAGE AREA.--12.6 mi² (32.6 km²).

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

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 m²).

AVERAGE DISCHARGE.--10 years, 9.10 ft³/s (0.258 m³/s), 6,590 acre-ft/yr (8.13 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,020 ft³/s (57.2 m³/s), February 19, 1980, gage height, 5.96 ft (1.817 m), from rating curve extended above 700 ft³/s (19.8 m³/s) on basis of slope-area measurement; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 288 ft³/s (8.16 m³/s) Jan. 29, gage height, 3.51 ft (1.070 m), no peak above base of 400 ft³/s (11.3 m³/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.02	.05	.25	12	2.9	6.4	.82	.10	.05	0	.08
2	.04	.02	1.7	.47	8.9	2.9	5.3	.44	.11	.05	0	.09
3	.04	.02	13	.36	6.4	2.7	3.5	.40	.10	.04	0	.08
4	.03	.03	6.7	.34	5.2	3.4	3.0	.39	.09	.02	0	.08
5	.04	.01	1.3	.29	4.3	4.0	3.2	.42	.09	.04	0	.08
6	.04	.01	.33	.29	3.7	2.9	2.6	.41	.09	.03	0	.08
7	.03	.02	.23	.37	3.5	2.7	2.4	.36	.07	.01	0	.09
8	.03	.02	.20	.40	3.3	2.4	2.0	.36	.07	0	0	.09
9	.02	.02	.19	.29	2.9	2.2	1.7	.34	.06	.02	0	.09
10	.02	.02	.17	.28	2.9	2.2	1.7	.33	.04	0	0	.10
11	.02	.02	.17	.28	2.9	1.7	1.7	.50	.01	0	0	.09
12	.05	.02	.17	.28	2.7	1.3	1.6	.47	.01	0	0	.12
13	.05	.02	.16	.26	3.7	3.9	1.5	.45	0	0	0	.10
14	.03	.03	.16	.25	4.9	2.0	1.4	.39	0	0	0	.10
15	.02	.03	.15	.26	3.7	16	1.0	.39	0	0	0	.11
16	.02	.03	.13	.27	3.4	14	1.1	.36	0	0	.01	.12
17	.03	.04	.13	.45	3.7	8.7	1.2	.31	.01	0	.01	.09
18	.02	.04	.11	.49	3.4	19	1.3	.54	.01	0	.02	.09
19	.02	.03	.11	1.2	3.4	20	1.8	.31	.01	0	.02	.09
20	.03	.03	.11	.81	3.4	24	1.6	.24	.02	0	.01	.09
21	.02	.04	.41	.59	3.2	81	1.4	.22	.01	0	.02	.09
22	.02	.07	.28	4.2	1.7	39	1.3	.24	.01	0	.03	.09
23	.03	.04	.24	6.8	2.4	21	.93	.20	.01	0	.04	.08
24	.03	.04	.22	3.3	4.2	14	.88	.17	.01	0	.04	.12
25	.03	.04	.25	2.1	4.4	71	1.1	.17	.03	0	.05	.11
26	.02	.04	.25	2.9	3.2	44	1.1	.17	.03	0	.05	.08
27	.02	.04	.25	109	3.2	24	1.1	.16	.02	0	.05	.09
28	.02	.04	.25	105	3.2	15	.98	.14	.03	0	.06	.09
29	.02	.04	.25	117	---	12	.90	.16	.04	0	.07	.07
30	.02	.04	.25	35	---	8.8	.80	.17	.05	0	.07	.07
31	.02	---	.25	19	---	7.1	---	.12	---	0	.07	---
TOTAL	.86	.91	28.17	412.78	113.8	475.8	56.49	10.15	1.13	.26	.62	2.75
MEAN	.028	.030	.91	13.3	4.06	15.3	1.88	.33	.038	.008	.020	.092
MAX	.05	.07	13	117	12	81	6.4	.82	.11	.05	.07	.12
MIN	.02	.01	.05	.25	1.7	1.3	.80	.12	0	0	0	.07
AC-FT	1.7	1.8	56	819	226	944	112	20	2.2	.5	1.2	5.5
CAL YR 1980	TOTAL	6082.25	MEAN	16.6	MAX	694	MIN	.01	AC-FT	12060		
WTR YR 1981	TOTAL	1103.72	MEAN	3.02	MAX	117	MIN	0	AC-FT	2190		

11458500 SONOMA CREEK AT AGUA CALIENTE, CA

LOCATION.--Lat 38°19'24", long 122°29'36", in Agua Caliente Grant, Sonoma County, Hydrologic Unit 18050002, on left bank 20 ft (6 m) upstream from bridge, and 0.4 mi (0.6 km) west of Agua Caliente.

DRAINAGE AREA.--58.4 mi² (151.3 km²).

PERIOD OF RECORD.--February 1955 to September 30, 1981 (Discontinued). Prior to October 1966, published as "at Boyes Hot Springs."

GAGE.--Water-stage recorder. Datum of gage is 104.28 ft (31.785 m) National Geodetic Vertical Datum of 1929. Prior to July 24, 1967, at site 0.8 mi (1.3 km) downstream at different datum. July 24, 1967, to Oct. 9, 1968, at site 130 ft (40 m) upstream at different datum.

REMARKS.--Records good. No regulation; some diversion above station for irrigation of about 2,000 acres (8.09 km²).

AVERAGE DISCHARGE.--26 years, 69.7 ft³/s (1.974 m³/s), 50,500 acre-ft/yr (62.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,880 ft³/s (251 m³/s) Dec. 22, 1955, gage height, 17.10 ft (5.212 m) site and datum then in use, from rating curve extended above 4,100 ft³/s (116 m³/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,040 ft³/s (86.1 m³/s) Jan. 27 (1145 hrs), gage height 9.27 ft (2.825 m); no other peak above base of 2,300 ft³/s (65.1 m³/s); minimum daily, 0.12 ft³/s (0.003 m³/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.67	.93	2.5	4.3	98	52	50	4.9	3.8	1.8	.78	.19
2	.60	.77	14	4.2	78	40	45	4.6	3.6	1.7	.92	.26
3	.55	.73	382	5.5	64	35	38	4.1	3.5	1.6	.83	.35
4	.60	.73	168	6.9	52	63	34	4.2	3.1	1.5	.44	.25
5	.55	.77	30	5.4	45	48	32	4.2	2.8	1.4	.46	.25
6	.55	.68	15	3.9	40	39	30	4.3	2.6	1.8	.25	.28
7	1.3	.90	11	3.4	36	34	28	3.8	3.0	1.3	.51	.23
8	1.4	2.1	8.5	3.2	32	32	26	3.2	3.2	.99	.26	.20
9	.83	1.8	6.6	3.1	31	27	23	2.8	3.5	.81	.23	.32
10	.76	1.4	5.6	3.0	28	26	21	2.3	3.7	.87	.19	.40
11	1.2	1.3	5.4	3.0	31	24	20	2.5	3.0	1.0	.25	.44
12	2.0	1.3	5.2	3.0	28	22	19	2.2	2.9	.88	.39	.44
13	2.5	1.5	4.6	2.6	85	33	17	2.2	3.0	.75	.68	.40
14	2.5	1.2	4.3	1.9	154	25	16	2.6	2.7	.87	.82	.58
15	1.9	1.1	4.2	2.1	75	80	15	2.7	1.7	.63	.77	.62
16	2.2	1.2	4.3	3.0	56	79	14	3.2	2.3	.75	.52	.50
17	1.9	1.3	4.2	6.4	48	46	13	2.8	1.8	.80	.45	.39
18	1.9	.93	4.2	6.2	42	63	13	4.6	1.9	.55	.43	.37
19	3.1	1.1	3.9	13	37	84	14	6.2	1.6	1.0	.67	.31
20	2.7	1.2	4.2	16	34	200	13	5.7	1.1	.70	.46	.29
21	1.3	1.2	7.1	12	32	410	12	4.5	1.3	.78	.47	.19
22	1.3	2.1	10	356	28	157	11	4.4	1.2	.73	.27	.14
23	1.1	2.2	6.9	237	26	105	10	4.0	.84	.55	.27	.12
24	.89	1.9	5.5	104	52	79	9.0	3.4	1.3	.51	.76	.16
25	1.0	1.5	5.5	60	56	300	8.7	3.6	1.6	.47	.60	.33
26	1.2	1.4	5.5	70	41	193	8.0	3.2	1.7	.87	.36	.59
27	1.1	1.4	5.4	1270	38	122	7.5	2.8	1.6	.60	.25	.68
28	.75	1.6	4.7	1150	43	93	6.2	2.4	1.2	.60	.18	.96
29	.64	1.7	4.4	693	---	76	5.8	2.8	1.3	.61	.15	.84
30	.67	2.1	4.4	225	---	64	5.4	3.7	1.5	.53	.22	.59
31	.67	---	4.4	136	---	54	---	3.6	---	.48	.16	---
TOTAL	40.33	40.04	751.5	4413.1	1410	2705	564.6	111.5	68.34	28.43	14.00	11.67
MEAN	1.30	1.33	24.2	142	50.4	87.3	18.8	3.60	2.28	.92	.45	.39
MAX	3.1	2.2	382	1270	154	410	50	6.2	3.8	1.8	.92	.96
MIN	.55	.68	2.5	1.9	26	22	5.4	2.2	.84	.47	.15	.12
AC-FT	80	79	1490	8750	2800	5370	1120	221	136	56	28	23
CAL YR 1980 TOTAL	35292.18			MEAN 96.4	MAX 2800	MIN .55	AC-FT 70000					
WTR YR 1981 TOTAL	10158.51			MEAN 27.8	MAX 1270	MIN .12	AC-FT 20150					

PETALUMA RIVER BASIN

11459300 SAN ANTONIO CREEK NEAR PETALUMA, CA

LOCATION.--Lat 38°10'57", long 122°36'55", in sec.22, T.4 N., R.7 W., Sonoma County, Hydrologic Unit 18050002, on left bank 0.8 mi (1.3 km) upstream from bridge on San Antonio Road, 3.6 mi (5.8 km) southeast of Petaluma.

DRAINAGE AREA.--28.9 mi² (74.9 km²).

PERIOD OF RECORD.--August 1975 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m), from topographic map.

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

AVERAGE DISCHARGE.--6 years, 16.9 ft³/s (0.479 m³/s), 12,240 acre-ft/yr (15.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,390 ft³/s (124 m³/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 ft³/s (8.50 m³/s), and maximum(*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 29	0045	*664	18.8	7.44	2.268
Mar. 25	0845	553	15.7	7.13	2.173

Minimum daily discharge, no flow several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.05	18	9.8	18	1.0				
2			0	0	13	9.2	15	.90				
3			2.0	.13	10	5.9	11	.83				
4			9.0	.45	8.4	9.9	9.0	.75				
5			0	.28	5.8	8.9	7.3	.66				
6			0	.41	5.3	6.0	6.5	.40				
7			0	.10	4.7	4.3	5.7	.30				
8			0	.08	4.4	3.6	4.7	.05				
9			0	.06	5.6	2.9	4.5	.04				
10			0	.05	3.5	2.5	4.2	.04				
11			0	.04	4.2	2.1	3.9	.04				
12			0	.04	3.2	2.3	3.9	.88				
13			0	.04	15	20	3.6	2.1				
14			0	.04	30	8.5	3.2	2.1				
15			0	.04	12	67	2.7	1.9				
16			.02	.04	8.1	37	2.7	1.7				
17			.02	.33	6.3	17	2.4	1.8				
18			.04	.53	4.7	55	2.4	3.5				
19			.03	1.8	4.1	55	2.8	3.6				
20			.02	2.0	3.2	103	2.9	2.5				
21			.45	.71	2.6	253	2.4	2.1				
22			2.4	30	2.2	79	2.1	2.3				
23			1.9	15	2.2	45	1.9	1.9				
24			.81	5.2	7.9	32	1.8	.07				
25			.82	2.3	13	183	1.7	0				
26			.82	6.0	8.8	98	1.6	0				
27			.63	203	8.0	54	1.5	0				
28			.35	260	7.7	39	1.4	0				
29			.33	229	---	30	1.3	0				
30			.29	54	---	23	1.1	0				
31		---	.10	29	---	19	---	0	---			---
TOTAL	0	0	20.03	840.72	221.9	1284.9	133.2	31.46	0	0	0	0
MEAN	0	0	.65	27.1	7.93	41.4	4.44	1.01	0	0	0	0
MAX	0	0	9.0	260	30	253	18	3.6	0	0	0	0
MIN	0	0	0	0	2.2	2.1	1.1	0	0	0	0	0
AC-FT	0	0	40	1670	440	2550	264	62	0	0	0	0
CAL YR 1980	TOTAL	13386.12	MEAN	36.6	MAX	1140	MIN	0	AC-FT	26550		
WTR YR 1981	TOTAL	2532.21	MEAN	6.94	MAX	260	MIN	0	AC-FT	5020		

11459500 NOVATO CREEK AT NOVATO, CA

LOCATION.--Lat 38°06'28", long 122°34'44", in Novato Grant, Marin County, Hydrologic Unit 18050002, on left bank in Novato, 100 ft (30 m) upstream from 7th Street Bridge.

DRAINAGE AREA.--17.6 mi² (45.6 km²).

PERIOD OF RECORD.--October 1946 to current year. Records of diversions for water years 1952-53, estimated. Prior to October 1966 published as "near Novato."

GAGE.--Water-stage recorder. Datum of gage is 14.76 (4.499 m) National Geodetic Vertical Datum of 1929. 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, Apr. 2 to May 3, which are fair. Flow regulated by Stafford Lake beginning Dec. 1, 1951, capacity, 4,500 acre-ft (5.55 hm³) since Oct. 18, 1954; contents, 2,130 acre-ft (2.63 hm³) Sept. 30, 1979, and 1,130 acre-ft (1.39 hm³) Sept. 30, 1980. Diversion from Stafford Lake for municipal water supply began Apr. 25, 1952, and amounted to 1,166 acre-ft (1.44 hm³) for the current year. No diversion from Russian River into Stafford Lake during current year.

COOPERATION.--Record of diversions furnished by North Marin County Water District.

AVERAGE DISCHARGE (adjusted for diversions).--35 years, 13.0 ft³/s (0.368 m³/s), 9,420 acre-ft/yr (11.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,360 ft³/s (66.8 m³/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, 372 ft³/s (10.5 m³/s) Jan. 27, gage height, 5.53 ft (1.686 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	.99	.09	13	4.1	7.0	.68	.40	.15	.16	0
2	.01	.01	19	.09	9.5	2.9	5.7	.65	.37	.14	.12	.01
3	0	.01	122	.22	7.5	2.4	4.8	.69	.37	.13	.14	.01
4	.01	.01	12	.45	6.0	4.1	4.5	.59	.34	.13	.10	.02
5	.01	.01	.35	.10	5.2	2.4	3.9	.57	.34	.12	.08	.02
6	.02	0	.19	.09	4.4	2.0	3.4	.54	.34	.12	.08	.01
7	.01	0	.14	.10	3.9	1.8	3.1	.52	.29	.12	.08	0
8	0	.01	2.5	.10	6.6	2.4	2.8	.50	.34	.11	.07	0
9	.01	.01	.13	.09	5.0	1.6	2.6	.46	.33	.11	.07	0
10	.01	0	.09	.09	3.6	1.5	2.4	.44	.32	.10	.08	0
11	.04	0	.08	.09	2.7	1.5	2.3	.44	.26	.10	.05	.02
12	2.7	0	.08	.09	2.1	1.5	2.1	.43	.23	.09	.08	.03
13	.42	0	.07	.09	9.0	13	1.9	.45	.21	.09	.07	.02
14	.19	0	.08	.09	8.3	2.1	1.8	.42	.19	.08	.06	.01
15	.19	0	.08	.15	3.2	35	1.7	.42	.61	.09	.07	0
16	.07	0	.09	.67	2.5	8.3	1.6	.41	.42	.07	.09	0
17	.02	0	.08	2.3	2.3	4.6	1.5	.40	.35	.08	.20	0
18	.01	0	.08	.20	1.9	29	1.4	.5	.52	.08	.10	0
19	.03	0	.08	11	1.8	22	1.4	.65	.48	.09	.07	0
20	.01	0	.08	2.0	1.6	47	1.2	.52	.29	.08	.04	0
21	.01	0	1.5	1.2	1.5	95	1.2	.46	.28	.10	.04	0
22	.01	.46	.16	58	1.4	32	1.1	.50	.32	.06	.06	0
23	.03	.11	.09	19	1.4	20	1.1	.29	.30	.08	.08	.16
24	.03	.04	.08	5.7	5.8	16	1.0	.29	.33	.07	.07	.05
25	.03	.02	.08	3.7	5.1	52	.94	.39	.25	.08	.02	.03
26	.02	.02	.08	31	7.7	24	1.0	.42	.22	.07	.01	.03
27	.01	.02	.09	207	2.8	16	.85	.41	.20	.08	0	.01
28	.03	.06	.09	202	4.6	13	.80	.41	.18	.06	0	0
29	.02	.06	.09	129	---	11	.89	.40	.17	.12	0	0
30	.01	.04	.09	38	---	9.9	.73	.37	.16	.27	.01	0
31	.04	---	.09	22	---	7.9	---	.37	---	.21	0	---
TOTAL	4.01	.90	160.63	734.70	130.4	486.0	66.71	17.59	9.41	3.28	2.10	.43
MEAN	.13	.030	5.18	23.7	4.66	15.7	2.22	.57	.31	.11	.068	.014
MAX	2.7	.46	122	207	13	95	7.0	3.5	.61	.27	.20	.16
MIN	0	0	.07	.09	1.4	1.5	.73	.29	.16	.06	0	0
AC-FT	8.0	1.8	319	1460	259	964	132	35	19	6.5	4.2	.9
CAL YR 1980	TOTAL	9718.62	MEAN	26.6	MAX	754	MIN	0	AC-FT	19280		
WTR YR 1981	TOTAL	1616.16	MEAN	4.43	MAX	207	MIN	0	AC-FT	3210		

CORTE MADERA CREEK BASIN

11460000 CORTE MADERA CREEK AT ROSS, CA

LOCATION.--Lat 37°57'45", long 122°33'20", in Punta de Quentin Grant, Marin County, Hydrologic Unit 18050002, on left bank behind fire station at Ross, 1.7 mi (2.7 km) southwest of San Rafael, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--18.1 mi² (46.9 km²).

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. Flow regulated by Phoenix Lake 1.7 mi (2.7 km) upstream, capacity, 612 acre-ft (755,000 m³). Diversion on tributary above station by Marin Municipal Water District.

AVERAGE DISCHARGE.--30 years, 26.8 ft³/s (0.759 m³/s), 19,420 acre-ft/yr (23.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,620 ft³/s (103 m³/s) Dec. 22, 1955, gage height, 17.45 ft (5.319 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,190 ft³/s (33.7 m³/s) Jan. 27 (1115 hrs), gage height, 11.36 ft (3.463 m), no other peak above base of 1,000 ft³/s (28 m³/s); no flow for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.05	.11	.73	29	30	22	2.0	1.2	.45	.08	0
2	.09	.04	9.4	.73	20	26	18	2.0	1.2	.40	.08	0
3	.05	.04	115	1.3	13	23	15	2.0	1.2	.31	.10	0
4	.06	.05	24	.90	9.7	36	13	2.0	1.1	.19	.07	.01
5	.06	.05	.90	.73	7.3	29	11	2.0	1.0	.33	.06	.01
6	.09	.05	.24	.95	5.7	25	9.4	1.9	.93	.38	.06	.01
7	.07	.07	.17	.74	4.7	21	8.2	1.8	.85	.35	.04	0
8	.05	.06	.19	.76	9.0	19	13	1.7	.95	.27	.04	.01
9	.06	.05	.10	.73	9.4	18	11	1.7	.89	.17	.03	.01
10	.06	.05	.11	2.0	4.6	17	9.9	1.7	.92	.20	.02	.01
11	.06	.05	.16	2.3	5.1	16	8.8	1.6	.59	.26	.03	.01
12	.52	.08	.17	.38	4.2	15	4.1	1.5	.60	.24	.10	.01
13	.19	.05	.17	.31	16	39	3.9	1.6	.60	.27	.14	.01
14	.18	.05	.17	.25	28	22	3.7	1.5	.62	.25	.10	.01
15	.17	.05	.21	.25	18	71	3.5	1.8	.62	.10	.04	.01
16	.18	.04	.36	2.1	16	64	3.4	1.7	.56	.16	.01	.01
17	.16	.05	.62	3.1	14	47	3.4	1.7	.56	.19	.03	.01
18	.11	.05	.63	.40	12	76	3.4	4.0	.50	.19	.01	.01
19	.08	.05	.78	10	12	64	3.5	3.1	.48	.20	.04	.01
20	.06	.05	.94	2.2	11	147	3.1	4.5	.39	.14	.04	.01
21	.06	.05	5.8	.53	11	456	3.1	1.7	.35	.14	.11	.01
22	.05	.12	.75	104	10	179	3.0	1.5	.38	.10	.04	0
23	.05	.10	.25	37	10	74	3.0	1.5	.29	.08	.04	0
24	.06	.10	.33	14	17	44	2.8	1.5	.36	.08	.03	0
25	.06	.10	.38	7.4	20	114	3.0	1.5	.37	.06	.06	1.7
26	.05	.08	.38	66	24	74	2.6	1.7	.35	.08	.02	.56
27	.05	.06	.58	666	19	65	2.5	1.5	.39	.09	.01	.50
28	.04	.09	.74	303	30	42	2.3	1.4	.34	.11	0	.68
29	.04	.08	.83	216	---	32	2.2	1.3	.36	.10	0	.56
30	.05	.10	1.2	83	---	27	2.1	1.3	.38	.09	0	.53
31	.05	---	.73	49	---	24	---	1.3	---	.06	0	---
TOTAL	2.95	1.91	166.40	1576.79	389.7	1936	197.9	58.0	19.33	6.04	1.43	4.70
MEAN	.095	.064	5.37	50.9	13.9	62.5	6.60	1.87	.64	.19	.046	.16
MAX	.52	.12	115	666	30	456	22	4.5	1.2	.45	.14	1.7
MIN	.04	.04	.10	.25	4.2	15	2.1	1.3	.29	.06	0	0
AC-FT	5.9	3.8	330	3130	773	3840	393	115	38	12	2.8	9.3
CAL YR 1980 TOTAL	11264.26			MEAN 30.8	MAX 1090	MIN .04	AC-FT 22340					
WTR YR 1981 TOTAL	4361.15			MEAN 11.9	MAX 666	MIN 0	AC-FT 8650					

11460100 ARROYO CORTE MADERA DEL PRESIDIO AT MILL VALLEY, CA

LOCATION.--Lat 37°53'50", long 122°32'06", in Sausalito Grant, Marin County, Hydrologic Unit 18050002, on right bank near south boundary of town of Mill Valley, 1 mi (2 km) upstream from mouth.

DRAINAGE AREA.--4.69 mi² (12.15 km²).

PERIOD OF RECORD.--October 1965 to September 1973, May 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1.85 ft (0.564 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--14 years, 6.47 ft³/s (0.183 m³/s), 4,690 acre-ft/yr (5.78 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft³/s (33.4 m³/s) Jan. 21, 1970, gage height, 7.52 ft (2.292 m); no flow for many days in 1968, 1975-79.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 220 ft³/s (6.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 27	0030	*278	7.87	5.17	1.576
Mar. 31	0530	256	7.25	5.09	1.551

Minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.14	.17	.21	4.6	3.5	5.8	1.3	.56	.21	.08	.05
2	.11	.13	.19	.17	3.3	3.1	5.1	1.3	.55	.28	.07	.05
3	.11	.14	8.2	.81	2.6	2.8	4.5	1.3	.47	.26	.08	.05
4	.11	.14	1.6	.41	2.1	6.3	3.6	1.2	.36	.23	.06	.05
5	.08	.13	.42	.28	1.8	5.0	3.3	1.2	.32	.21	.05	.05
6	.07	.11	.29	.22	1.6	3.9	3.1	1.1	.29	.17	.06	.07
7	.09	.13	.23	.21	1.5	3.3	2.9	1.1	.24	.15	.05	.07
8	.11	.14	.19	.21	2.5	2.9	2.8	.99	.29	.13	.05	.07
9	.11	.14	.17	.21	2.2	2.6	2.6	.99	.27	.10	.05	.06
10	.12	.12	.17	.21	1.6	2.3	2.5	1.0	.25	.11	.05	.05
11	.16	.11	.17	.23	3.4	2.1	2.3	.99	.24	.14	.05	.05
12	.39	.10	.17	.21	2.2	2.1	2.2	.95	.19	.13	.06	.04
13	.24	.11	.17	.21	4.7	7.8	2.1	.96	.21	.13	.06	.05
14	.19	.12	.17	.21	6.6	3.3	2.0	.97	.19	.12	.07	.05
15	.17	.11	.17	.18	4.9	22	1.9	.86	.20	.12	.07	.05
16	.17	.11	.17	.25	3.8	17	1.9	.86	.17	.07	.09	.05
17	.18	.14	.17	.58	3.2	9.9	1.9	.83	.16	.04	.07	.05
18	.18	.07	.17	.41	2.7	25	2.0	2.4	.18	.05	.07	.05
19	.14	.09	.17	1.6	2.3	23	2.0	.77	.19	.05	.08	.04
20	.14	.09	.17	.67	1.9	43	1.8	.67	.14	.05	.10	.02
21	.14	.12	5.5	.40	1.8	141	1.7	.66	.15	.06	.11	.03
22	.14	1.1	.98	15	1.6	41	1.6	.63	.11	.06	.12	.03
23	.14	.25	.50	5.6	1.6	20	1.6	.59	.14	.06	.07	.04
24	.14	.17	.34	2.1	2.8	13	1.5	.61	.14	.07	.09	.06
25	.14	.16	.28	1.1	4.4	41	1.5	.62	.18	.07	.09	.23
26	.14	.14	.23	16	2.9	29	1.5	.64	.19	.10	.06	.05
27	.14	.14	.22	86	2.3	19	1.4	.70	.17	.10	.05	.14
28	.14	.15	.21	38	4.3	13	1.3	.72	.17	.10	.05	.09
29	.14	.17	.20	39	---	9.8	1.3	.66	.19	.10	.05	.07
30	.13	.22	.21	13	---	7.7	1.3	.66	.22	.11	.05	.07
31	.13	---	.22	6.8	---	6.6	---	.64	---	.09	.05	---
TOTAL	4.52	4.99	22.22	230.49	81.2	532.0	71.0	28.87	7.13	3.67	2.11	1.83
MEAN	.15	.17	.72	7.44	2.90	17.2	2.37	.93	.24	.12	.068	.061
MAX	.39	1.1	8.2	86	6.6	141	5.8	2.4	.56	.28	.12	.23
MIN	.07	.07	.17	.17	1.5	2.1	1.3	.59	.11	.04	.05	.02
AC-FT	9.0	9.9	44	457	161	1060	141	57	14	7.3	4.2	3.6
CAL YR 1980	TOTAL	2570.58	MEAN	7.02	MAX	268	MIN	.07	AC-FT	5100		
WTR YR 1981	TOTAL	990.03	MEAN	2.71	MAX	141	MIN	.02	AC-FT	1960		

LAGUNITAS CREEK BASIN

11460600 LAGUNITAS CREEK NEAR POINT REYES STATION, CA

LOCATION.--Lat 39°04'49", long 122°47'00", in Nicasio (Black) Grant, Marin County, Hydrologic Unit 18050005, on right bank at upstream side of road bridge, 300 ft (91 m) downstream from small right-bank tributary, and 1.4 mi (2.3 km) northeast of town of Point Reyes Station.

DRAINAGE AREA.--81.7 mi² (211.6 km²).

PERIOD OF RECORD.--October 1974 to current year.

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 hm³), Kent Lake, capacity, 16,680 acre-ft (20.6 hm³), and Alpine Lake, capacity, 8,890 acre-ft (11.0 hm³), all of which divert water for domestic and industrial use in the county of Marin.

AVERAGE DISCHARGE.--7 years, 56.4 ft³/s (1.597 m³/s), 40,900 acre-ft/yr (50.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,430 ft³/s (125 m³/s) Jan. 12, 1980, gage height, 18.72 ft (5.706 m), from rating curve extended above 2,400 ft³/s (68.0 m³/s); minimum daily, 0.01 ft³/s (<0.001 m³/s) Sept. 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,880 ft³/s (53.2 m³/s) Jan. 29, gage height, 9.43 ft (2.874 m); minimum daily, 0.78 ft³/s (0.022 m³/s) July 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.6	2.4	3.3	115	36	46	4.3	1.9	2.0	3.1	1.8
2	2.4	2.5	6.8	3.3	78	34	36	4.1	1.9	2.2	3.3	1.7
3	2.5	2.5	123	3.3	56	30	29	4.2	2.0	2.4	3.4	1.7
4	2.6	2.5	49	3.1	41	44	25	4.2	2.0	2.5	3.5	1.8
5	2.6	2.7	14	3.2	31	44	23	4.2	2.0	2.6	3.2	2.3
6	2.7	2.8	8.6	3.7	26	37	21	4.0	2.0	2.5	3.2	2.0
7	2.8	2.2	6.2	3.2	23	32	19	3.6	2.0	2.4	2.9	2.0
8	2.6	1.9	5.1	2.8	21	29	16	3.4	1.8	2.0	2.9	2.0
9	2.5	1.8	4.6	2.8	25	26	14	3.3	1.9	1.9	3.0	1.9
10	2.5	1.8	4.3	2.8	21	23	13	3.3	1.7	1.2	3.1	2.1
11	2.4	1.8	4.2	2.7	20	21	12	3.2	1.6	.78	3.2	2.0
12	2.9	1.8	3.9	2.7	19	20	11	3.9	1.5	1.6	3.4	1.7
13	3.1	1.8	3.8	2.7	23	39	10	3.9	1.5	1.5	2.9	1.9
14	3.2	1.8	3.7	2.7	39	31	9.9	3.6	1.6	1.5	3.0	2.0
15	3.2	1.8	3.5	2.7	33	56	9.4	3.9	1.5	1.9	3.3	2.0
16	3.0	1.8	3.4	2.9	29	75	8.7	3.8	1.4	2.5	6.6	2.1
17	2.9	1.8	3.4	3.9	26	47	8.2	3.6	1.7	2.8	6.1	1.8
18	2.9	1.8	3.3	4.8	23	52	8.0	5.7	1.6	3.0	3.0	1.8
19	2.9	1.8	3.2	6.7	21	83	8.4	5.8	2.0	2.9	2.8	1.9
20	2.9	1.8	3.1	17	20	115	8.1	4.1	1.8	2.5	2.7	2.1
21	2.8	1.9	4.0	11	18	836	7.6	3.5	1.8	2.4	2.6	2.2
22	2.8	2.1	4.7	186	17	428	7.1	3.3	2.1	2.4	2.6	2.0
23	2.8	1.9	3.9	142	16	228	6.5	2.8	1.9	2.4	2.6	1.9
24	2.7	2.4	3.8	70	20	147	6.0	2.8	2.2	2.4	2.6	2.0
25	2.8	2.5	3.6	39	29	346	5.8	2.8	2.3	2.3	2.6	2.7
26	2.8	2.3	3.6	36	30	279	5.9	2.5	2.2	2.3	2.5	2.9
27	3.1	2.1	3.6	662	31	181	5.4	2.4	1.9	2.5	2.5	2.8
28	2.7	2.0	3.5	1230	31	130	5.1	2.2	1.6	2.8	2.4	3.1
29	2.6	1.9	3.4	1260	---	95	4.8	2.2	1.9	3.4	2.1	3.1
30	2.5	2.2	3.4	416	---	74	4.5	2.1	1.8	3.1	2.4	2.5
31	2.5	---	3.4	195	---	57	---	1.9	---	3.0	2.1	---
TOTAL	85.2	62.6	300.4	4327.3	882	3675	394.4	108.6	55.1	71.68	95.6	63.8
MEAN	2.75	2.09	9.69	140	31.5	119	13.1	3.50	1.84	2.31	3.08	2.13
MAX	3.2	2.8	123	1260	115	836	46	5.8	2.3	3.4	6.6	3.1
MIN	2.4	1.8	2.4	2.7	16	20	4.5	1.9	1.4	.78	2.1	1.7
AC-FT	169	124	596	8580	1750	7290	782	215	109	142	190	127
CAL YR 1980	TOTAL	41946.85	MEAN	115	MAX	2810	MIN	.92	AC-FT	83200		
WTR YR 1981	TOTAL	10121.68	MEAN	27.7	MAX	1260	MIN	.78	AC-FT	20080		

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.--40.1 mi² (103.8 km²), revised.

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 Soulaajule Reservoir on Arroyo Sausal, a tributary to Walker Creek. Reservoir capacity 10,570 acre-ft (13.0 hm³). There are small diversions above station for irrigation of about 50 acres (202,000 m²) and stock watering.

EXTREMES FOR PERIOD OF RECORD (Prior to regulation by Soulaajule Reservoir).--Maximum discharge, 5,420 ft³/s (153 m³/s) Jan. 5, 1966, gage height, 22.23 ft (6.776 m); maximum gage height, 22.91 ft (6.983 m) Jan. 16, 1973; no flow at times each year. 1979 to current year: Maximum discharge 2,880 ft³/s (81.6 m³/s) Jan. 11, 1980, gage height 17.52 ft (5.340 m); minimum daily, no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 791 ft³/s (22.4 m³/s) Jan. 29, gage height, 9.90 ft (3.018 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	4.9	5.5	8.0	59	12	43	12	3.2	3.4	4.7	6.7
2	4.5	4.9	11	8.0	45	11	35	11	3.5	3.3	4.9	6.6
3	4.5	5.0	42	7.8	30	9.7	28	11	4.2	3.4	4.5	6.3
4	4.5	5.0	20	7.6	23	21	23	11	4.3	3.4	4.6	5.0
5	4.5	5.3	6.9	10	18	16	19	11	4.4	3.8	4.0	5.0
6	4.7	5.3	6.7	13	16	13	17	11	4.5	3.8	4.1	5.5
7	4.4	5.7	6.3	12	14	11	15	10	4.6	3.5	4.1	5.7
8	4.3	5.9	6.3	11	13	11	14	9.9	4.5	3.6	4.1	5.7
9	4.2	5.6	6.3	11	15	9.9	13	10	4.0	3.9	4.3	5.6
10	4.3	5.3	6.5	10	12	9.2	14	10	3.6	3.9	4.6	5.6
11	4.5	5.1	6.8	10	12	8.5	15	9.9	3.8	3.9	4.8	5.6
12	4.7	4.9	7.2	10	11	7.9	14	8.1	3.5	4.1	1.5	5.7
13	4.8	4.9	9.9	9.2	29	19	14	7.8	3.2	4.3	2.6	5.7
14	4.5	4.9	10	3.1	54	12	13	6.5	3.1	4.6	3.8	5.8
15	4.3	5.0	12	4.4	28	22	12	6.1	2.9	4.9	3.9	5.7
16	4.4	5.0	12	5.4	20	31	6.1	4.6	2.6	5.3	3.9	5.6
17	4.2	5.0	12	6.2	17	24	12	4.6	2.6	5.6	3.9	5.6
18	4.1	4.9	13	5.5	15	36	12	7.3	2.4	5.4	4.1	5.6
19	3.8	4.9	13	6.9	13	46	13	3.5	2.4	5.0	4.0	5.4
20	3.8	4.7	15	9.7	11	63	12	2.8	2.3	4.9	3.6	5.2
21	3.8	4.5	16	9.9	9.6	235	11	2.7	2.2	4.7	3.5	5.4
22	3.9	5.9	17	42	8.5	126	9.6	2.7	2.2	4.6	3.3	5.2
23	3.9	5.1	14	34	8.0	111	12	2.6	2.3	4.5	3.4	5.5
24	3.9	4.5	12	21	13	99	11	2.7	2.4	4.8	3.3	6.2
25	4.0	4.5	11	18	14	286	12	2.8	2.4	4.4	3.1	7.0
26	4.5	4.0	10	19	12	240	12	2.7	2.7	4.4	3.1	6.2
27	4.9	3.8	9.5	311	11	152	11	2.7	2.8	4.6	5.2	6.6
28	4.8	4.0	9.0	281	12	108	11	2.7	2.6	4.7	6.1	6.4
29	4.9	4.3	8.6	370	---	84	11	2.8	2.8	4.6	6.2	6.0
30	4.9	5.3	8.3	141	---	66	11	2.9	3.3	4.1	6.5	6.0
31	4.9	---	8.2	82	---	49	---	3.0	---	4.3	6.6	---
TOTAL	136.0	148.1	352.0	1497.7	543.1	1949.2	455.7	198.4	95.3	133.7	130.3	174.1
MEAN	4.39	4.94	11.4	48.3	19.4	62.9	15.2	6.40	3.18	4.31	4.20	5.80
MAX	4.9	5.9	42	370	59	286	43	12	4.6	5.6	6.6	7.0
MIN	3.8	3.8	5.5	3.1	8.0	7.9	6.1	2.6	2.2	3.3	1.5	5.0
AC-FT	270	294	698	2970	1080	3870	904	394	189	265	258	345
CAL YR 1980 TOTAL	20210.2			MEAN 55.2	MAX 1250	MIN 3.2	AC-FT 40090					
WTR YR 1981 TOTAL	5813.6			MEAN 15.9	MAX 370	MIN 1.5	AC-FT 11530					

11461000 RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'44", long 123°11'38", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, on right bank 20 ft (6 m) downstream from bridge on Lake Mendocino Drive, 0.4 mi (0.6 km) upstream from East Fork, 0.6 mi (1.0 km) downstream from York Creek, and 3.2 mi (5.1 km) north of Ukiah.

DRAINAGE AREA.--100 mi² (259 km²).

PERIOD OF RECORD.--August 1911 to September 1913, October 1952 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 599.22 ft (182.642 m) National Geodetic Vertical Datum of 1929. Prior to October 1952, nonrecording gage at bridge 20 ft (6 m) upstream at different datum. Oct. 1, 1952, to Nov. 8, 1971, water-stage recorder at site 0.6 mi (1.0 km) upstream at different datums.

REMARKS.--Records good except for period of indefinite stage-discharge relationship June 18 to July 19 and period of no gage-height record July 20 to Sept. 24 which are fair. No regulation. Diversions above station for irrigation of about 1,000 acres (4.05 km²).

AVERAGE DISCHARGE.--31 years, 173 ft³/s (4.899 m³/s), 125,300 acre-ft/yr (154 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft³/s (535 m³/s) Dec. 21, 1955, gage height, 19.0 ft (5.79 m) site and datum then in use; no flow at times in 1911, 1952-53, 1960-61, 1964-65, 1970-73, 1975-81.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,430 ft³/s (125 m³/s) Jan. 27 (1130 hrs), gage height 13.72 ft (4.191 m), no other peak above base of 4,000 ft³/s (113 m³/s); minimum daily discharge, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.37	8.4	13	228	175	144	19	6.1	.23		0
2	.28	.44	63	12	174	148	117	17	6.1	.21		0
3	.26	.48	805	15	139	128	101	16	5.3	.20		0
4	.24	.43	467	29	115	507	91	15	3.8	.18		0
5	.23	.43	110	23	97	261	84	14	3.0	.16		0
6	.21	.43	61	20	83	191	77	11	2.7	.14		0
7	.20	.81	38	17	72	166	67	12	2.4	.13		0
8	.19	1.8	28	15	64	146	62	11	2.1	.12		0
9	.18	1.9	25	14	59	125	59	11	1.9	.11		0
10	.17	1.3	19	12	52	109	51	12	1.6	.10		0
11	.16	1.0	17	12	52	99	43	12	1.5	.09		0
12	.15	.80	14	11	48	88	42	9.5	1.3	.07		0
13	.14	.80	12	11	624	81	39	6.4	1.1	.05		0
14	.13	.83	11	10	1130	74	39	6.5	.98	.03		0
15	.13	1.6	10	9.7	360	131	38	6.5	.88	.01		0
16	.12	1.1	9.7	13	281	145	37	7.3	.78	0		0
17	.11	.82	9.0	101	262	101	36	7.4	.70	0		0
18	.10	.73	8.5	91	189	109	34	22	.64	0		0
19	.10	.70	8.0	147	165	124	51	24	.58	0		0
20	.09	.70	7.6	154	146	173	42	17	.52	0		0
21	.09	.78	147	128	126	607	37	14	.48	0		0
22	.10	3.1	120	1500	110	417	33	12	.44	0		0
23	.10	4.7	52	649	100	261	30	11	.40	0		0
24	.11	3.7	34	303	400	201	27	10	.37	0		.15
25	.12	2.4	27	173	338	659	27	10	.34	0		.35
26	.13	2.0	22	340	292	940	26	10	.32	0		.25
27	.15	1.9	20	2480	255	479	22	9.9	.29	0		.21
28	.18	1.6	20	3190	203	319	21	9.1	.27	0		.26
29	.20	1.8	18	1540	---	243	21	8.1	.25	0		.24
30	.23	5.5	16	575	---	184	20	7.5	.24	0		.22
31	.27	---	15	335	---	154	---	6.9	---	0		---
TOTAL	5.17	44.95	2222.2	11942.7	6164	7545	1518	365.1	47.38	1.83	0	1.68
MEAN	.17	1.50	71.7	385	220	243	50.6	11.8	1.58	.059	0	.056
MAX	.30	5.5	805	3190	1130	940	144	24	6.1	.23	0	.35
MIN	.09	.37	7.6	9.7	48	74	20	6.4	.24	0	0	0
AC-FT	10	89	4410	23690	12230	14970	3010	724	94	3.6	0	3.3

CAL YR 1980 TOTAL 59643.81 MEAN 163 MAX 5850 MIN .09 AC-FT 118300
WTR YR 1981 TOTAL 29858.01 MEAN 81.8 MAX 3190 MIN 0 AC-FT 59220

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.

WATER-DISCHARGE RECORDS

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.

AVERAGE DISCHARGE.--40 years, 333 ft³/s (9.431 m³/s), 241,300 acre-ft/yr (298 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft³/s (530 m³/s) Dec. 22, 1964, gage height, 20.21 ft (6.160 m) site then in use; minimum daily, 2.0 ft³/s (0.057 m³/s) July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,180 ft³/s (118 m³/s) Jan. 27 (1115 hrs), gage height, 13.50 ft (4.115 m), no other peak above base of 3,300 ft³/s (93 m³/s); minimum daily discharge, 48 ft³/s (1.359 m³/s) July 22.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	313	105	253	422	457	374	158	127	93	50	75
2	247	316	270	252	395	443	341	174	129	95	64	69
3	253	316	900	251	379	428	323	172	126	106	75	73
4	249	299	410	252	363	689	361	157	125	115	69	67
5	249	296	174	247	356	463	366	132	129	114	77	62
6	255	297	250	241	349	421	360	116	127	116	73	68
7	250	306	243	235	343	402	333	123	126	114	68	67
8	260	300	238	232	340	391	323	146	130	119	58	65
9	270	300	235	229	338	377	319	125	131	116	62	103
10	283	301	235	220	334	370	304	127	124	98	64	110
11	278	300	235	213	333	363	299	128	118	101	59	125
12	290	293	234	200	333	334	296	116	115	107	62	160
13	292	293	240	62	786	286	294	123	117	110	62	165
14	294	286	280	57	951	264	192	138	117	106	66	167
15	294	284	282	57	507	341	181	137	120	104	66	178
16	285	274	287	58	490	412	181	138	117	115	60	180
17	287	275	289	113	478	369	181	136	119	116	61	191
18	284	264	285	140	432	369	179	163	118	112	63	200
19	291	271	284	178	419	365	200	158	119	111	70	199
20	292	273	279	157	403	413	188	172	112	109	72	203
21	307	269	366	144	391	621	178	163	116	59	70	211
22	321	183	324	1420	381	544	177	159	120	48	67	260
23	323	169	306	654	379	441	175	160	106	54	65	257
24	323	158	292	314	620	405	174	161	99	62	64	275
25	325	93	282	370	569	873	172	164	107	63	63	293
26	318	78	279	514	544	920	170	162	100	58	66	298
27	314	85	274	2310	510	574	162	149	100	58	79	310
28	304	72	271	2540	471	498	154	141	99	57	78	304
29	301	76	268	1320	---	462	164	135	97	51	70	292
30	312	83	264	588	---	348	158	127	89	57	71	304
31	318	---	258	469	---	301	---	130	---	52	78	---
TOTAL	8920	7123	8939	14290	12616	13944	7279	4490	3479	2796	2072	5331
MEAN	288	237	288	461	451	450	243	145	116	90.2	66.8	178
MAX	325	316	900	2540	951	920	374	174	131	119	79	310
MIN	247	72	105	57	333	264	154	116	89	48	50	62
AC-FT	17690	14130	17730	28340	25020	27660	14440	8910	6900	5550	4110	10570
CAL YR 1980	TOTAL	136228	MEAN	372	MAX	4920	MIN	44	AC-FT	270200		
WTR YR 1981	TOTAL	91279	MEAN	250	MAX	2540	MIN	48	AC-FT	181100		

RUSSIAN RIVER BASIN

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.

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.

COOPERATION.--Chemical-quality data furnished by Corps of Engineers.

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)
OCT , 1980							
10...	1015	282	198	7.8	18.0	4.2	9.4
28...	1000	305	199	7.8	13.0	7.0	10.8
NOV							
10...	1030	302	219	7.9	12.0	7.2	10.8
24...	1330	148	216	7.2	10.0	6.1	11.6
DEC							
10...	1100	235	202	6.9	6.0	110	11.9
31...	0930	258	224	7.7	6.0	--	12.0
JAN , 1981							
16...	1100	58	268	7.4	9.0	22	10.8
FEB							
02...	1330	394	138	7.0	8.0	45	12.5
20...	1030	402	164	7.0	8.0	39	12.0
MAR							
06...	1115	420	157	6.8	8.0	24	11.8
20...	1045	402	177	7.0	9.0	20	11.3
APR							
07...	0915	293	194	7.1	10.0	7.0	11.1
28...	0920	157	199	7.6	14.0	7.1	10.3
MAY							
19...	1015	153	189	7.4	13.0	8.0	10.9
JUN							
08...	1010	129	180	7.3	18.0	7.4	10.0
29...	1315	99	193	7.2	23.0	4.0	8.9
JUL							
13...	0925	110	198	7.2	17.0	4.5	9.5
27...	1300	61	195	7.2	23.0	3.0	9.2
AUG							
07...	1050	67	197	7.4	21.0	4.0	10.0
24...	0945	66	208	7.2	17.0	4.0	11.7
SEP							
09...	1020	102	183	6.8	20.0	5.2	8.8
25...	1020	296	185	7.1	18.0	5.9	8.9

11461800 LAKE MENDOCINO NEAR UKIAH, CA

LOCATION.--Lat 39°11'53", long 123°10'50", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, in intake tower 30 ft (9 m) upstream from Coyote Dam on East Fork Russian River, and 3.6 mi (5.8 km) northeast of Ukiah.

DRAINAGE AREA.--105 mi² (272 km²).

WATER-CONTENT RECORDS

PERIOD OF RECORD.--October 1965 to current year. Records prior to October 1965 in files of Corps of Engineers.

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

REMARKS.--Reservoir is formed by earthfill dam; storage began in November 1958. Capacity based on 1975 resurvey, new capacity table put into use July 1, 1977, 122,100 acre-ft (152 hm³) between elevations 637.0 ft (194.16 m), invert of outlet tunnel and 764.8 ft (233.11 m), spillway crest, NGVD. Storage affected by diversions from Eel River through Potter Valley powerhouse (station 11471000). Water is released down East Fork Russian River for irrigation and recreation use. Records given herein represent total contents.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 114,800 acre-ft (142 hm³) Jan. 24, 1970, elevation, 760.86 ft (231.910 m); minimum, 12,070 acre-ft (14.9 hm³) Nov. 4, 1977, elevation, 687.15 ft (209.443 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 84,700 acre-ft (104 hm³) Jan. 29, elevation, 744.63 ft (226.963 m); minimum, 39,300 acre-ft (48.5 hm³) Sept. 21, elevation, 716.40 ft (218.359 m).

Capacity table (elevation, in feet NGVD, 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 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65500	69000	70600	72300	77000	72700	76900	82600	82300	74100	58100	43800
2	65500	69200	70700	72300	75000	72600	77200	82600	82300	73500	57600	43400
3	65400	69500	71800	72400	73700	72400	77600	82700	82200	73000	57000	43000
4	65300	69700	72300	72500	73500	72900	78000	82600	82200	72500	56500	42700
5	65200	69900	72300	72600	73200	72900	78500	82600	82100	72000	56100	42300
6	65200	70100	72400	72600	73100	72800	79000	82600	82000	71500	55700	41900
7	65200	70300	72600	72500	73000	72900	79400	82600	82000	71000	55200	41500
8	65200	70500	72700	72300	72900	72900	79000	82600	81900	70500	54700	41100
9	65200	70700	72800	72300	72800	72900	80200	82600	81800	70000	54100	40800
10	65200	70900	72900	72300	72700	72900	80500	82600	81600	69500	53700	40500
11	65300	71100	72800	72300	72700	72800	80800	82700	81400	69000	53100	40300
12	65500	71300	72600	72200	72600	72700	81100	82600	81200	68400	52600	40100
13	65600	71500	72400	72100	73300	72500	81400	82600	81000	68000	52000	40000
14	65800	71700	72400	72100	74400	72300	81500	82500	80800	67400	51500	39900
15	65900	71800	72300	72000	74300	72300	81500	82400	80600	67000	51000	39800
16	66100	72000	72300	72100	74100	72300	81600	82400	80400	66500	50600	39700
17	66200	72100	72300	72300	73700	72300	81700	82400	80200	66100	50100	39600
18	66300	72100	72200	72400	73100	72300	81800	82400	80000	65700	49500	39500
19	66500	72100	72200	72600	72300	72200	82000	82400	79800	65200	49100	39500
20	66600	72100	72100	72400	72100	72300	82100	82500	79500	65000	48700	39400
21	66800	72200	72400	72300	72200	72800	82200	82500	79300	64000	48200	39300
22	67100	72200	72200	74100	72200	73200	82300	82500	79000	63800	47800	39400
23	67300	72000	72000	74200	72200	73600	82400	82500	78600	63200	47300	39400
24	67400	71900	72000	73900	72700	74100	82400	82500	78100	62700	46900	39600
25	67600	71700	72000	73000	72900	75100	82400	82500	77600	62200	46500	39700
26	67900	71500	71900	72900	73000	76300	82500	82500	77100	61600	46000	39900
27	68100	71300	71900	78000	73000	76600	82500	82500	76500	61000	45700	40100
28	68200	71000	71800	83100	72900	76800	82600	82600	75900	60400	45300	40200
29	68400	70900	71900	83700	---	76800	82700	82500	75300	59900	44900	40300
30	68600	70700	72100	81200	---	76800	82700	82400	74700	59100	44500	40500
31	68800	---	72100	79000	---	76700	---	82400	---	58700	44100	---
MAX	68800	72200	72900	83700	77000	76800	82700	82700	82300	74100	58100	43800
MIN	65200	69000	70600	72000	72100	72200	76900	82400	74700	58700	44100	39300
(†)	735.62	736.72	737.53	741.44	737.98	740.15	743.52	743.35	739.00	729.53	719.90	717.25
(‡)	+3300	+1900	+1400	+6900	-6100	+3800	+6000	-300	-7700	-16000	-14600	-3600

CAL YR 1980 ‡ -3600

WTR YR 1981 ‡ -25000

† 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 RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC , 1980										
16...	1150	28.0	179	7.8	9.1	750	9.2	81	13	12
16...	1210	22.0	180	7.8	9.8	750	8.9	79	K5	K4
16...	1220	3.0	176	7.9	11.4	750	9.4	87	K2	K2
MAR , 1981										
26...	1215	24.0	154	8.2	9.8	750	8.5	76	19	K4
26...	1245	13.0	155	8.1	11.2	750	9.6	88	K4	K1
26...	1315	4.0	154	8.2	11.8	750	10.1	94	K4	K1
JUN										
23...	1155	25.0	160	6.6	11.4	740	2.6	25	K1	K2
23...	1205	10.0	167	7.0	16.9	740	4.6	49	<1	<1
23...	1215	3.0	175	8.2	24.5	740	7.5	93	<1	<1
SEP										
22...	1155	19.0	176	7.3	22.0	745	4.2	49	14	36
22...	1230	14.0	175	7.4	22.5	745	4.5	53	<1	23
22...	1235	4.0	175	7.6	22.8	745	6.0	71	<1	K7

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	LIGHT INCI- DENT PERCENT REMAIN- ING AT DEPTH	LIGHT TRANS- MISSION 1 METER PATH- LENGTH (%)	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER)
DEC , 1980											
16...	0952	.10	--	--	--	750	--	--	73	--	--
16...	0953	.50	176	7.9	11.4	--	8.8	81	48	1.3	4.32
16...	0955	1.0	176	7.9	11.4	--	8.9	82	24	1.0	4.56
16...	0956	1.5	--	--	--	--	--	--	14	--	--
16...	0958	2.0	176	7.9	11.4	--	9.2	85	6.6	1.0	4.56
16...	0959	2.5	--	--	--	--	--	--	3.5	--	--
16...	1000	3.0	176	7.9	11.4	--	9.4	87	1.8	1.0	4.56
16...	1001	3.5	--	--	--	--	--	--	1.3	--	--
16...	1002	3.7	--	--	--	--	--	--	1.0	--	--
16...	1003	4.0	176	7.9	11.4	--	9.8	91	--	.92	4.68
16...	1004	5.0	175	7.9	11.4	--	9.3	86	--	.92	4.68
16...	1006	6.0	176	7.9	11.4	--	9.3	86	--	.92	4.68
16...	1008	7.0	176	7.9	11.4	--	9.2	85	--	.92	4.68
16...	1009	8.0	176	7.9	11.4	--	9.2	85	--	.92	4.68
16...	1010	9.0	176	7.9	11.4	--	9.1	84	--	.92	4.68
16...	1013	10.0	176	7.9	11.4	--	9.0	83	--	.92	4.68
16...	1015	11.0	176	7.9	11.4	--	9.0	83	--	.71	4.95
16...	1017	12.0	176	7.9	11.4	--	8.9	82	--	.46	5.39
16...	1020	13.0	177	7.9	11.3	--	8.8	81	--	.33	5.71
16...	1022	14.0	177	7.8	11.3	--	8.7	81	--	.36	5.63
16...	1024	15.0	175	7.9	11.3	--	8.8	81	--	.61	5.09
16...	1025	16.0	176	7.9	11.2	--	8.9	82	--	.30	5.79
16...	1027	17.0	176	7.9	11.1	--	8.9	82	--	.18	6.34
16...	1029	18.0	177	7.9	11.0	--	8.8	81	--	.00	11.98
16...	1031	19.0	178	7.8	10.7	--	8.6	78	--	.00	12.59
16...	1032	20.0	180	7.8	10.4	--	8.6	77	--	.00	15.09
16...	1033	21.0	181	7.8	10.1	--	8.6	77	--	.00	16.54
16...	1035	22.0	180	7.8	9.8	--	8.9	79	--	.00	18.04
16...	1037	23.0	180	7.8	9.4	--	9.2	81	--	.00	19.85
16...	1040	24.0	179	7.8	9.3	--	9.3	82	--	.00	20.46
16...	1042	25.0	180	7.8	9.2	--	9.4	82	--	.00	21.19
16...	1043	26.0	179	7.8	9.1	--	9.3	82	--	.00	21.19
16...	1044	27.0	179	7.8	9.1	--	9.2	81	--	.00	21.19
16...	1046	28.0	179	7.8	9.1	--	9.2	81	--	.00	21.19
16...	1048	29.0	179	7.8	9.1	--	9.2	81	--	.00	21.19
16...	1049	30.0	179	7.8	9.1	--	9.2	81	--	.00	21.19
MAR , 1981											
26...	1005	.50	154	8.2	12.1	750	10.1	94	64	.46	5.39
26...	1007	1.0	155	8.2	12.0	--	10.1	94	19	.46	5.39
26...	1009	1.5	--	--	--	--	--	--	11	.46	5.39

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

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

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	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 , 1981										
26...	1011	2.0	154	8.2	11.9	10.2	95	6.0	.39	5.55
26...	1013	--	--	--	--	--	--	3.0	.46	5.39
26...	1015	3.0	154	8.2	11.8	10.1	94	1.1	.46	5.39
26...	1017	--	--	--	--	--	--	1.0	.46	5.39
26...	1019	4.0	154	8.2	11.8	10.1	94	.7	.39	5.55
26...	1021	5.0	154	8.2	11.7	10.1	94	--	.39	5.55
26...	1023	6.0	154	8.2	11.7	10.1	94	--	.39	5.55
26...	1025	7.0	153	8.2	11.7	10.1	94	--	.39	5.55
26...	1027	8.0	153	8.1	11.6	10.1	94	--	.39	5.55
26...	1029	9.0	153	8.2	11.6	9.8	91	--	.36	5.63
26...	1031	10.0	155	8.2	11.5	9.8	91	--	.30	5.79
26...	1033	11.0	156	8.2	11.4	9.8	91	--	.33	5.71
26...	1035	12.0	156	8.2	11.3	9.7	90	--	.28	5.88
26...	1037	13.0	155	8.1	11.2	9.6	88	--	.18	6.34
26...	1039	14.0	156	8.1	11.1	9.6	88	--	.10	6.86
26...	1041	15.0	156	8.1	10.6	9.2	84	--	.06	7.46
26...	1043	16.0	157	8.1	10.5	9.1	83	--	.03	8.01
26...	1045	17.0	158	8.1	10.2	9.1	82	--	.03	8.16
26...	1047	18.0	157	8.1	10.2	9.1	82	--	.02	8.48
26...	1049	19.0	156	8.1	10.0	9.0	80	--	.01	9.21
26...	1051	20.0	156	8.1	10.0	8.9	79	--	.01	9.50
26...	1053	21.0	157	8.1	9.9	8.8	79	--	.01	9.63
26...	1055	22.0	157	8.1	9.9	8.8	79	--	.00	9.91
26...	1057	23.0	155	8.2	9.9	8.5	76	--	.00	10.10
26...	1059	24.0	154	8.2	9.8	8.5	76	--	.00	10.20
26...	1101	25.0	154	8.1	9.8	8.5	76	--	.00	10.05
26...	1103	26.0	154	8.1	9.8	8.4	75	--	.00	9.96
26...	1105	27.0	155	8.1	9.8	8.4	75	--	.00	10.10
26...	1107	28.0	155	8.1	9.8	8.3	74	--	.00	11.12

23...	1030	.10	174	8.1	24.8	7.9	99	56	15	1.91
23...	1031	.50	174	8.1	24.8	7.5	94	49	15	1.91
23...	1032	1.0	174	8.2	24.7	7.5	93	43	15	1.91
23...	1033	1.5	--	--	--	--	--	37	--	--
23...	1034	2.0	175	8.2	24.7	7.4	91	29	14	1.98
23...	1035	2.5	--	--	--	--	--	23	--	--
23...	1036	3.0	175	8.2	24.5	7.5	93	19	14	1.98
23...	1037	3.5	--	--	--	--	--	16	--	--
23...	1038	4.0	175	8.2	24.3	7.5	93	13	13	2.04
23...	1039	4.5	--	--	--	--	--	10	--	--

DATE	TIME	SAM- PLING DEPTH (M)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	RARO- 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)
JUN , 1981											
23...	1040	5.0	174	8.2	23.6	--	7.5	91	8.0	24	1.43
23...	1041	5.5	--	--	--	--	--	--	6.7	--	--
23...	1042	6.0	173	8.2	23.0	--	7.7	93	5.6	27	1.31
23...	1043	6.5	--	--	--	--	--	--	4.8	--	--
23...	1044	7.0	172	8.0	21.9	--	7.4	87	4.0	30	1.20
23...	1045	7.5	--	--	--	--	--	--	3.3	--	--
23...	1046	8.0	172	7.9	21.3	--	7.3	85	2.8	28	1.26
23...	1047	8.5	--	--	--	--	--	--	2.2	--	--
23...	1048	9.0	169	7.2	18.3	--	5.8	64	1.9	25	1.37
23...	1049	9.5	--	--	--	--	--	--	1.6	--	--
23...	1050	10.0	167	7.0	16.9	--	4.6	49	1.3	25	1.37
23...	1052	10.5	--	--	--	--	--	--	1.1	--	--
23...	1054	10.6	--	--	--	--	--	--	1.0	--	--
23...	1056	11.0	165	6.8	15.5	--	3.2	33	--	25	1.37
23...	1100	12.0	164	6.7	14.5	--	3.2	32	--	30	1.20
23...	1102	13.0	162	6.7	13.9	--	3.4	34	--	32	1.15
23...	1103	14.0	162	6.7	13.3	--	3.4	33	--	30	1.20
23...	1104	15.0	162	6.7	13.0	--	3.7	36	--	25	1.37
23...	1105	16.0	161	6.8	12.7	--	3.9	38	--	24	1.43
23...	1107	17.0	161	6.8	12.5	--	3.9	38	--	21	1.54
23...	1108	18.0	160	6.8	12.2	--	4.1	39	--	16	1.85
23...	1109	19.0	160	6.7	11.9	--	3.8	36	--	12	2.11
23...	1111	20.0	161	6.7	11.8	--	3.5	33	--	8.5	2.46
23...	1112	21.0	161	6.7	11.7	--	3.3	31	--	5.3	2.94
23...	1113	22.0	161	6.7	11.6	--	3.2	30	--	3.1	3.47
23...	1115	23.0	161	6.7	11.5	--	3.0	28	--	2.8	3.57
23...	1117	24.0	161	6.6	11.4	--	2.8	26	--	2.1	3.87
23...	1118	25.0	160	6.6	11.4	--	2.6	25	--	1.3	4.32
23...	1119	26.0	160	6.6	11.3	--	2.4	23	--	.81	4.82
23...	1120	27.0	160	6.6	11.3	--	2.4	23	--	.46	5.39
23...	1121	28.0	159	6.6	11.3	--	2.4	23	--	.36	5.63
23...	1122	29.0	159	6.6	11.3	--	2.4	23	--	.30	5.79
23...	1123	30.0	159	6.6	11.3	--	2.4	23	--	.28	5.88
SEP											
22...	1102	.10	176	7.6	23.0	745	5.7	68	100	3.7	3.28
22...	1104	.50	176	7.6	23.0	--	5.7	68	63	3.4	3.38
22...	1105	1.0	176	7.6	23.0	--	5.8	69	50	3.4	3.38
22...	1106	1.5	--	--	--	--	--	--	26	--	--
22...	1107	2.0	176	7.6	22.9	--	5.9	70	18	3.1	3.47
22...	1108	2.5	--	--	--	--	--	--	13	--	--

RUSSIAN RIVER BASIN

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

DATE	TIME	SAMPLING DEPTH (M)	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATURATION)	LIGHT INCIDENT PERCENT REMAINING AT DEPTH	LIGHT TRANSMISSION 1 METER PATH- LENGTH (%)	LIGHT, ATTENUATION COEFFICIENT (ALPHA/ METER)
SEP , 1981										
22...	1109	3.0	175	7.6	22.9	6.0	71	7.3	3.1	3.47
22...	1110	3.5	--	--	--	--	--	4.7	--	--
22...	1111	4.0	175	7.6	22.8	6.0	71	3.7	3.4	3.38
22...	1112	4.5	--	--	--	--	--	2.7	--	--
22...	1113	5.0	176	7.6	22.8	6.2	74	2.2	3.4	3.38
22...	1114	5.5	--	--	--	--	--	1.8	--	--
22...	1115	6.0	175	7.6	22.8	6.3	75	1.4	3.4	3.38
22...	1116	6.5	--	--	--	--	--	1.2	--	--
22...	1117	6.9	--	--	--	--	--	1.0	--	--
22...	1118	7.0	175	7.6	22.8	6.3	75	--	3.4	3.38
22...	1119	8.0	175	7.5	22.8	6.3	75	--	3.4	3.38
22...	1120	9.0	175	7.6	22.8	6.4	76	--	3.4	3.38
22...	1121	10.0	175	7.6	22.8	6.4	76	--	2.6	3.67
22...	1122	11.0	175	7.5	22.8	6.0	71	--	1.2	4.43
22...	1123	12.0	176	7.5	22.7	5.1	61	--	.61	5.09
22...	1124	13.0	176	7.4	22.6	4.5	54	--	.28	5.88
22...	1125	14.0	175	7.4	22.5	4.5	53	--	.14	6.54
22...	1127	15.0	176	7.3	22.4	4.0	47	--	.09	6.97
22...	1129	16.0	176	7.3	22.3	4.7	55	--	.09	6.97
22...	1131	17.0	175	7.3	22.2	4.5	53	--	.07	7.33
22...	1132	18.0	176	7.3	22.1	4.3	51	--	.04	7.72
22...	1134	19.0	176	7.3	22.0	4.2	49	--	.00	12.15
22...	1135	20.0	177	7.3	21.9	5.0	58	--	.00	11.60
22...	1136	21.0	176	7.4	21.7	4.8	56	--	.00	12.06

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'51", long 123°11'11", in Yokaya Grant, Mendocino County, Hydrologic Unit 18010110, on right bank of outlet channel, 500 ft (152 m) downstream from Coyote Dam, 1,300 ft (396 m) upstream from mouth, and 3.2 mi (5.1 km) northeast of Ukiah.

DRAINAGE AREA.--105 mi² (272 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1911 to September 1913, October 1951 to June 1956, October 1957 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 614.41 ft (187.272 m) National Geodetic Vertical Datum of 1929. Prior to October 1951, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. October 1951 to June 1956, water-stage recorder at site 1.0 mi (1.6 km) upstream at different datum.

REMARKS.--Records good. Flow affected by diversion from Bel River through Potter Valley powerhouse (station 11471000) and since November 1958 by storage in Lake Mendocino (station 11461800) 500 ft (152 m) upstream. Diversions above station for irrigation of about 8,000 acres (32.4 km²).

AVERAGE DISCHARGE (unadjusted).--7 years (water years 1912-13, 1952-55, 1958), 356 ft³/s (10.08 m³/s), 257,900 acre-ft/yr (318 hm³/yr); 22 years (water years 1960-81), 342 ft³/s (9.685 m³/s), 247,800 acre-ft/yr (306 hm³/yr).

EXTREMES FOR PERIOD OF RECORD (Prior to regulation by Lake Mendocino).--Maximum discharge, 13,300 ft³/s (377 m³/s) Dec. 21, 1955, gage height, 16.86 ft (5.139 m) site and datum then in use, from rating curve extended above 1,700 ft³/s (48.1 m³/s) on basis of maximum flow at station upstream which was defined to 8,600 ft³/s (244 m³/s); no flow Aug. 13-15, 1913.
1957 to current year: Maximum discharge, 7,350 ft³/s (208 m³/s) Jan. 24, 1970, gage height, 10.84 ft (3.304 m); minimum daily, 0.02 ft³/s (0.001 m³/s) Apr. 17, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,270 ft³/s (64.3 m³/s) Jan. 30, gage height, 4.78 ft (1.457 m); minimum daily, 37 ft³/s (1.05 m³/s) Jan. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	252	188	150	207	1680	498	287	147	142	370	313	238
2	287	188	153	209	1680	498	184	146	138	375	313	236
3	298	188	112	210	1260	498	149	144	138	364	309	237
4	297	191	136	210	498	500	129	145	136	363	300	236
5	297	192	174	210	498	499	129	148	142	360	293	233
6	276	192	153	210	457	461	129	122	148	360	293	235
7	262	191	153	271	393	401	129	108	149	360	290	233
8	262	191	153	309	393	401	129	107	147	351	289	233
9	246	191	154	247	393	401	129	107	153	348	288	231
10	233	192	155	210	393	401	143	107	174	348	286	229
11	233	192	309	210	393	401	150	106	196	348	285	226
12	233	192	346	210	393	401	150	120	203	348	281	226
13	233	192	309	115	689	401	150	132	203	345	284	228
14	233	191	309	45	400	401	150	145	203	344	284	226
15	233	191	309	49	601	401	150	153	207	322	281	226
16	233	191	307	51	601	401	144	151	210	308	280	224
17	233	233	305	51	720	401	141	151	210	318	281	226
18	233	260	308	51	792	401	141	153	213	324	281	226
19	233	262	309	112	791	402	141	153	215	324	274	226
20	233	233	309	297	520	403	141	153	214	315	272	228
21	190	199	309	206	364	405	141	150	217	306	270	229
22	188	199	428	683	365	405	141	150	280	302	266	229
23	188	199	386	764	367	264	145	150	324	313	264	230
24	188	176	306	545	368	181	147	152	324	320	263	232
25	188	163	306	852	449	520	149	151	324	320	251	233
26	188	154	305	651	498	376	150	150	355	320	241	233
27	188	147	305	37	498	492	150	150	380	319	243	233
28	188	147	305	223	498	442	148	150	380	316	240	233
29	188	147	212	1320	---	442	147	150	379	316	240	224
30	188	147	157	2260	---	442	147	150	361	313	239	219
31	188	---	185	1950	---	442	---	150	---	313	240	---
TOTAL	7110	5719	7817	12975	16952	12982	4460	4351	6865	10353	8534	6898
MEAN	229	191	252	419	605	419	149	140	229	334	275	230
MAX	298	262	428	2260	1680	520	287	153	380	375	313	238
MIN	188	147	112	37	364	181	129	106	136	302	239	219
AC-FT	14100	11340	15510	25740	33620	25750	8850	8630	13620	20540	16930	13680
CAL YR 1980	TOTAL	145469	MEAN 397	MAX 4510	MIN 51	AC-FT 288500						
WTR YR 1981	TOTAL	105016	MEAN 288	MAX 2260	MIN 37	AC-FT 208300						

RUSSIAN RIVER BASIN

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953-55, 1964-68, 1973 to current year.

CHEMICAL ANALYSES: Water years 1953-55, 1973 to current year.

BIOLOGICAL DATA: Water year 1977-78.

WATER TEMPERATURES: Water years 1953-55, 1965-68, 1973 to current year.

SEDIMENT RECORDS: Water years 1953-55, 1964-68.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1952 to March 1955, October 1964 to September 1968, October 1972 to current year.

SEDIMENT RECORDS: December 1952 to March 1955, January 1964 to September 1968.

INSTRUMENTATION.--Temperature recorder since October 1972.

COOPERATION.--Chemical-quality data furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 23.5°C on several days in 1977; minimum recorded, 7.0°C Jan. 14, 1973.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 22.5°C on several days during September; minimum recorded, 8.5°C Feb. 14.

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)
OCT , 1980							
10...	1100	233	188	7.8	20.0	3.0	8.8
28...	1030	188	203	8.0	17.0	5.8	9.2
NOV							
10...	1100	192	223	7.8	16.0	4.2	9.4
24...	1400	163	191	7.4	13.0	4.5	10.8
DEC							
10...	1130	153	184	7.5	11.0	35	10.5
31...	1125	207	194	7.8	10.0	--	10.9
JAN , 1981							
16...	1130	50	207	8.0	9.0	21	11.4
FEB							
02...	1430	1670	153	7.5	10.0	45	13.3
20...	1110	364	160	7.4	9.0	23	11.4
MAR							
06...	1145	498	163	7.0	10.0	21	11.0
20...	1120	405	157	7.4	10.0	18	10.8
APR							
07...	0945	129	163	7.6	10.0	10	10.9
28...	1000	150	176	7.7	11.0	12	11.8
MAY							
19...	1050	153	174	7.4	11.0	12	10.6
JUN							
08...	1030	147	176	7.8	12.0	8.0	10.6
29...	1400	380	204	7.4	12.0	6.5	10.6
JUL							
13...	1000	348	180	7.4	13.0	6.2	9.4
27...	1330	320	182	7.4	15.0	4.0	9.4
AUG							
07...	1105	293	172	7.5	17.0	4.0	10.2
24...	1015	262	182	6.6	20.0	2.0	8.0
SEP							
09...	1045	229	189	7.3	22.0	3.6	7.8
25...	1140	233	179	7.5	21.0	7.9	8.4

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

RUSSIAN RIVER BASIN

11462500 RUSSIAN RIVER NEAR HOPLAND, CA

LOCATION.--Lat 39°01'36", long 123°07'46", in Rancho de Sanel Grant, Mendocino County, Hydrologic Unit 18010110, on right bank at abandoned highway bridge, 0.2 mi (0.3 km) downstream from McNab Creek, 4 mi (6 km) north of Hopland.

DRAINAGE AREA.--362 mi² (938 km²).

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

REVISED RECORDS.--WSP 1041: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 497.61 ft (151.672 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 9, 1943, nonrecording gage at same site and datum.

REMARKS.--Records good. Diversions for irrigation of about 11,800 acres (47.8 km²) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino (station 11461800) 15 mi (24 km) upstream.

AVERAGE DISCHARGE.--42 years, 710 ft³/s (20.11 m³/s), 514,400 acre-ft/yr (634 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft³/s (1,270 m³/s) Dec. 22, 1955, gage height, 27.00 ft (8.230 m); minimum daily, 9.1 ft³/s (0.26 m³/s) Apr. 20, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1937 reached a stage of 30.0 ft (9.14 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,850 ft³/s (223 m³/s) Jan. 28, gage height, 12.41 ft (3.783 m); minimum daily, 111 ft³/s (3.14 m³/s) May 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	224	187	167	257	1930	851	745	196	137	312	280	221
2	246	187	203	258	1780	793	553	191	126	326	276	221
3	259	187	926	258	1580	749	481	187	125	316	278	220
4	260	187	989	263	950	1290	407	187	117	316	277	217
5	260	187	384	267	876	1070	375	183	118	316	262	216
6	259	187	289	265	824	938	353	169	124	318	262	217
7	250	188	264	277	730	829	331	132	127	320	258	219
8	248	190	254	308	700	794	312	124	131	317	254	220
9	244	190	248	295	681	755	299	115	127	308	256	217
10	233	191	243	262	665	721	285	116	131	310	258	217
11	233	192	278	258	656	696	282	111	150	312	255	210
12	235	192	351	257	640	672	267	112	167	312	258	210
13	235	192	323	235	1470	655	264	128	171	312	254	210
14	239	191	322	152	2450	639	262	135	171	313	256	211
15	240	190	322	140	1350	695	262	149	172	298	258	204
16	237	190	322	140	1150	754	254	152	174	269	258	204
17	237	204	318	179	1200	673	242	147	174	269	261	205
18	237	241	315	241	1150	668	240	172	173	277	261	206
19	237	243	315	262	1090	703	265	185	171	273	257	203
20	235	241	315	411	909	723	261	181	168	267	254	200
21	214	205	362	370	658	1260	241	176	165	250	250	204
22	187	201	488	3130	611	1130	234	170	192	241	249	207
23	187	201	445	1980	581	872	228	167	263	245	246	207
24	187	196	348	1230	945	683	228	162	274	256	246	209
25	187	181	337	1170	1090	1250	228	163	276	268	242	217
26	187	177	331	1350	1030	1820	225	165	286	274	230	217
27	187	168	329	4770	989	1380	221	160	321	276	224	220
28	187	167	329	6430	902	1110	217	154	325	277	223	224
29	187	167	305	4640	---	988	212	147	336	269	221	222
30	187	167	248	3180	---	897	203	146	324	271	223	217
31	187	---	245	2450	---	841	---	142	---	277	224	---
TOTAL	6932	5787	10915	35685	29587	27899	8977	4824	5716	8965	7811	6392
MEAN	224	193	352	1151	1057	900	299	156	191	289	252	213
MAX	260	243	989	6430	2450	1820	745	196	336	326	280	224
MIN	187	167	167	140	581	639	203	111	117	241	221	200
AC-FT	13750	11480	21650	70780	58690	55340	17810	9570	11340	17780	15490	12680
CAL YR 1980 TOTAL	276205			755	15500	167	AC-FT	547900				
WTR YR 1981 TOTAL	159490			437	6430	111	AC-FT	316300				

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 Cummysky Creek, and 5.5 mi (8.8 km) northwest of Cloverdale.

DRAINAGE AREA.--503 mi² (1,303 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 350 ft (107 m), from topographic map. Prior to July 30, 1970, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good. Diversions for irrigation of about 15,300 acres (61.9 km²) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino (station 11461800) 28 mi (45 km) upstream.

AVERAGE DISCHARGE.--30 years, 963 ft³/s (27.27 m³/s), 697,700 acre-ft/yr (860 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft³/s (1,560 m³/s) Dec. 22, 1964, gage height, 31.60 ft (9.632 m) site and datum then in use; minimum daily, 12 ft³/s (0.34 m³/s) Apr. 22, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,400 ft³/s (351 m³/s) Jan. 27, gage height, 13.65 ft (4.161 m); minimum daily, 114 ft³/s (3.23 m³/s) Jan. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	214	173	252	2590	1180	985	245	151	274	269	210
2	235	224	288	256	2320	1080	710	236	140	297	268	207
3	272	214	3050	257	2100	1000	620	230	135	285	274	205
4	275	216	2490	263	1190	1730	535	227	131	284	272	205
5	280	214	679	269	1020	1450	494	223	130	291	250	201
6	288	214	425	264	937	1230	465	220	131	296	242	205
7	260	214	341	265	800	1050	440	182	130	292	239	214
8	252	209	298	325	740	974	414	172	135	295	237	215
9	264	211	276	329	704	896	396	156	129	288	242	208
10	243	214	258	268	669	831	378	155	126	294	252	204
11	239	213	253	256	656	785	358	154	138	299	246	192
12	254	205	401	251	630	743	341	147	156	307	249	192
13	258	203	367	248	2070	717	335	158	160	309	249	199
14	253	213	360	151	4060	688	330	161	160	309	254	204
15	266	210	367	115	2010	786	329	175	163	300	255	199
16	261	210	359	114	1590	922	323	176	163	264	258	198
17	258	211	367	170	1570	764	312	166	160	247	260	195
18	259	264	369	280	1480	735	307	188	156	252	256	195
19	259	277	369	304	1380	793	339	213	153	247	256	195
20	258	284	366	554	1250	854	342	210	156	244	253	192
21	255	244	394	565	920	1710	313	199	145	222	248	197
22	207	234	588	6150	829	1610	300	192	154	214	245	196
23	210	233	562	3860	776	1250	290	184	223	219	245	197
24	204	227	412	2320	1130	943	288	179	243	224	245	203
25	209	202	383	1800	1490	1470	285	179	240	241	243	216
26	206	191	371	2120	1380	2430	284	181	245	256	224	218
27	207	177	364	9500	1370	1920	277	177	286	259	214	224
28	206	173	361	9970	1250	1500	270	169	293	264	210	229
29	205	170	352	7030	---	1310	265	162	303	257	206	230
30	212	187	257	4420	---	1170	255	152	298	255	217	221
31	212	---	233	3350	---	1070	---	151	---	262	216	---
TOTAL	7480	6472	16133	56276	38911	35591	11580	5719	5333	8347	7594	6166
MEAN	241	216	520	1815	1390	1148	386	184	178	269	245	206
MAX	288	284	3050	9970	4060	2430	985	245	303	309	274	230
MIN	204	170	173	114	630	688	255	147	126	214	206	192
AC-FT	14840	12840	32000	111600	77180	70590	22570	11340	10580	16560	15060	12230
CAL YR 1980 TOTAL	387452			1059		21100		170		768500		
WTR YR 1981 TOTAL	205602			563		9970		114		407800		

RUSSIAN RIVER BASIN

11463170 BIG SULPHUR CREEK AT GEYSERS RESORT, NEAR CLOVERDALE, CA

LOCATION.--Lat 38°47'52", long 122°48'05", in NW¼NW¼ sec.19, T.11 N., R.8 W., Sonoma County, Hydrologic Unit 18010110, on left bank 400 ft (122 m) downstream from unnamed tributary and 12 mi (19 km) east of Cloverdale.

DRAINAGE AREA.--13.1 mi² (33.9 km²).

PERIOD OF RECORD.--October 1980 to September 1981.

GAGE.--Water-stage recorder. Altitude of gage is 1,420 ft (433 m) from topographic map.

REMARKS.--Records good. Diversion for industrial use 150 ft above station when flows are above 10 ft³/s (0.28 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Dec. 3	1730	*3750	106	6.38	1.945
Jan. 27	0900	2360	66.8	5.42	1.652

Minimum daily 0.43 ft³/s (0.012 m³/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.67	1.1	1.5	6.7	92	70	38	9.3	4.5	1.7	.76	.87
2	.65	.75	217	6.4	67	56	35	8.9	4.4	1.7	.91	.81
3	.57	1.1	1460	7.8	66	47	30	8.9	4.2	1.6	1.1	.85
4	.58	1.1	189	8.0	52	87	25	8.8	4.0	1.5	1.0	.86
5	.57	1.1	99	7.0	43	61	22	8.5	3.9	1.5	.99	.92
6	.51	1.2	44	7.0	40	48	21	8.4	3.6	1.5	.91	.95
7	.55	1.1	32	6.7	38	43	19	8.1	3.6	1.4	.94	.86
8	.49	1.4	23	6.7	35	36	18	7.8	3.5	1.4	.96	.85
9	.43	1.3	19	6.3	30	31	16	7.5	3.4	1.4	.85	.77
10	.46	1.2	17	6.0	26	28	18	7.5	3.3	1.4	.77	.80
11	.63	1.2	15	6.0	24	24	16	7.2	3.2	1.4	.76	.74
12	1.4	1.2	12	5.8	21	22	15	7.0	3.1	1.3	.79	.76
13	1.1	1.2	10	5.7	95	20	14	6.8	3.1	1.3	.84	.76
14	1.1	1.2	9.7	5.7	186	19	13	6.3	3.1	1.3	.91	.74
15	.84	1.2	9.1	5.5	71	39	12	6.6	3.1	1.2	.92	.75
16	.59	1.2	8.3	12	62	31	11	6.5	2.9	1.2	.90	.74
17	.72	1.3	7.4	20	50	23	11	6.5	2.7	1.1	.98	.74
18	.75	1.2	7.2	13	45	23	11	11	2.7	1.2	.94	.74
19	.80	1.2	7.4	26	40	32	12	7.7	2.5	1.1	.98	.76
20	.97	1.2	7.4	35	33	56	11	7.2	2.3	.97	.99	.85
21	1.1	1.2	12	34	28	205	10	6.6	2.3	1.1	.96	.91
22	1.1	1.4	9.6	291	25	173	9.2	6.4	2.0	1.0	.90	.76
23	1.1	1.5	8.9	265	24	97	8.8	6.4	1.9	.92	.90	.77
24	1.0	1.2	8.5	181	59	75	8.3	6.1	1.9	.86	.93	.81
25	1.1	1.2	8.5	93	56	100	9.2	6.5	1.9	.86	.94	1.0
26	1.2	1.2	8.0	95	69	91	9.0	6.3	1.8	.82	.91	.93
27	1.2	1.2	7.7	975	76	75	8.3	5.9	1.9	.85	.90	.94
28	1.2	1.2	7.6	894	68	62	8.1	5.5	1.8	.81	.89	1.0
29	1.1	1.3	7.0	448	---	51	8.0	5.1	1.7	.87	.91	.84
30	1.1	1.7	7.0	268	---	45	8.3	4.9	1.7	.79	.91	.81
31	1.1	---	6.9	167	---	43	---	4.7	---	.84	.88	---
TOTAL	26.68	36.55	2286.7	3914.3	1521	1813	455.2	220.9	86.0	36.89	28.23	24.89
MEAN	.86	1.22	73.8	126	54.3	58.5	15.2	7.13	2.87	1.19	.91	.83
MAX	1.4	1.7	1460	975	186	205	38	11	4.5	1.7	1.1	1.0
MIN	.43	.75	1.5	5.5	21	19	8.0	4.7	1.7	.79	.76	.74
AC-FT	53	72	4540	7760	3020	3600	903	438	171	73	56	49

WTR YR 1981 TOTAL 10450.34 MEAN 28.6 MAX 1460 MIN .43 AC-FT 20730

11463900 MAACAMA CREEK NEAR KELLOGG, CA

LOCATION.--Lat 38°38'25", long 122°45'45", in SW¼ sec.9, T.9 N., R.8 W., Sonoma County, Hydrologic Unit 18010110, on right bank 0.5 mi (0.8 km) downstream from Redwood Creek, and 4.4 mi (7.1 km) west of Kellogg.

DRAINAGE AREA.--43.4 mi² (112.4 km²).

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximum, water years 1958-60, December 1960 to September 1981 (discontinued).

REVISED RECORDS.--WDR CA-80-2: 1978(M).

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 period of no gage-height record, July 9 to Aug. 19, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--20 years (water years 1962-81), 81.5 ft³/s (2.308 m³/s), 59,050 acre-ft/yr (72.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,360 ft³/s (208 m³/s), Jan. 16, 1978, gage height, 16.48 ft (5.023 m); maximum gage height, 17.56 ft (5.352 m) Dec. 22, 1964; no flow at times in 1964, 1968, 1976-77, 1979, and 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 3	1100	*4290 121	12.77 3.892
Jan. 27	1030	3140 88.9	11.10 3.383

Minimum daily discharge, no flow for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	1.1	1.6	7.5	175	146	74	15	6.4	1.4	.39	0
2	.32	.85	75	7.5	117	107	64	14	6.2	1.2	.38	0
3	.26	.83	1810	9.7	93	90	55	14	5.8	1.1	.36	0
4	.22	.84	483	9.8	76	226	50	13	5.0	.98	.35	0
5	.23	.81	120	8.3	66	131	46	12	4.6	1.0	.33	0
6	.27	.83	61	7.8	57	100	43	12	3.1	1.2	.32	0
7	.41	1.1	38	7.5	51	86	40	12	2.8	1.3	.31	.01
8	.61	1.6	27	7.5	47	76	37	11	3.9	1.3	.29	0
9	.37	1.2	23	7.3	43	66	35	11	3.4	1.2	.28	0
10	.39	1.0	20	7.1	39	59	33	11	3.9	1.2	.27	.10
11	.59	1.1	18	7.0	42	53	30	9.9	4.3	1.1	.26	.14
12	1.3	1.1	16	7.0	35	47	28	9.4	3.9	1.0	.25	.20
13	1.3	1.1	14	6.8	221	44	26	9.3	3.5	.97	.24	.04
14	1.4	1.0	13	6.8	374	40	25	9.1	3.5	.93	.23	.03
15	1.2	1.0	12	6.8	135	101	24	6.9	2.9	.89	.22	.03
16	1.1	.98	12	9.2	97	74	22	8.4	2.3	.84	.21	.03
17	1.0	1.0	11	20	80	54	23	7.4	1.7	.80	.21	.06
18	.90	1.0	11	17	66	60	23	15	1.5	.76	.20	.14
19	.87	1.1	10	53	58	121	26	12	1.4	.71	.26	.09
20	.87	1.1	9.7	55	50	166	24	11	1.4	.69	.24	.14
21	.83	1.1	15	42	44	454	22	9.5	1.2	.66	.19	.13
22	.85	1.6	15	554	41	341	21	8.9	2.5	.62	.20	.08
23	.90	1.6	11	569	40	198	20	8.6	.41	.60	.35	.05
24	.87	1.4	10	247	75	145	19	8.3	.95	.57	.18	.06
25	.95	1.3	9.5	138	75	276	19	8.3	1.2	.54	.14	.32
26	1.0	1.3	9.1	171	274	249	19	8.3	1.4	.52	.04	.39
27	.94	1.2	8.6	1590	200	160	18	8.2	1.5	.50	.03	.51
28	.78	1.2	8.2	1320	166	125	17	7.8	1.7	.47	.02	1.0
29	.75	1.1	7.9	863	---	105	16	7.4	1.5	.45	.01	1.1
30	.88	1.3	7.8	374	---	88	15	7.1	1.7	.43	0	.98
31	1.0	---	7.6	224	---	78	---	6.8	---	.41	0	---
TOTAL	23.85	33.74	2895.0	6360.6	2837	4066	914	312.6	85.56	26.34	6.76	5.63
MEAN	.77	1.12	93.4	205	101	131	30.5	10.1	2.85	.85	.22	.19
MAX	1.4	1.6	1810	1590	374	454	74	15	6.4	1.4	.39	1.1
MIN	.22	.81	1.6	6.8	35	40	15	6.8	.41	.41	0	0
AC-FT	47	67	5740	12620	5630	8060	1810	620	170	52	13	11
CAL YR 1980	TOTAL	31123.45	MEAN	85.0	MAX	2150	MIN	.22	AC-FT	61730		
WTR YR 1981	TOTAL	17567.08	MEAN	48.1	MAX	1810	MIN	0	AC-FT	34840		

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 mi² (2,054 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 981: 1942. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 77.01 ft (23.473 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Several diversions for irrigation of about 17,800 acres (72.0 km²) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino (station 11461800) 63 mi (101 km) upstream.

AVERAGE DISCHARGE.--42 years, 1,414 ft³/s (40.04 m³/s), 1,024,000 acre-ft/yr (1.26 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,300 ft³/s (2,020 m³/s) Dec. 23, 1964, gage height, 27.00 ft (8.230 m); maximum gage height, 30.0 ft (9.14 m) Feb. 28, 1940; minimum daily discharge, 17 ft³/s (0.48 m³/s) Apr. 25, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 30.8 ft (9.39 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,300 ft³/s (603 m³/s) Jan. 27, gage height, 13.08 ft (3.987 m); minimum daily, 85 ft³/s (2.41 m³/s) June 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	199	188	307	3860	1890	1410	344	190	262	225	193
2	200	199	231	310	3200	1640	1220	332	186	248	230	191
3	208	199	8210	317	2830	1500	1030	321	167	256	228	190
4	222	198	7990	320	2250	2020	922	314	152	252	228	190
5	238	197	1620	322	1740	2270	843	301	149	257	226	191
6	241	197	879	317	1550	1770	781	294	131	260	216	189
7	245	200	639	309	1390	1550	739	284	122	258	210	192
8	229	207	525	318	1240	1410	697	259	130	255	206	222
9	224	206	457	350	1160	1300	652	240	130	254	208	201
10	225	207	416	343	1080	1200	624	224	119	250	211	194
11	219	206	386	311	1040	1120	594	217	113	254	216	190
12	232	205	392	300	994	1060	563	208	115	259	215	185
13	236	203	431	294	1810	1020	534	191	129	263	216	187
14	238	201	415	282	6430	968	518	207	144	261	218	187
15	242	203	404	230	3260	1110	502	209	146	252	223	188
16	232	203	399	207	2390	1360	490	211	140	244	224	184
17	232	203	397	233	2130	1120	475	208	132	228	223	183
18	231	204	387	317	1960	1040	464	228	124	220	225	183
19	231	229	385	426	1800	1140	487	236	112	221	226	180
20	231	242	381	575	1690	1300	510	244	94	218	226	177
21	231	248	395	688	1410	2800	476	253	92	212	223	177
22	226	235	471	6100	1220	3100	445	248	87	199	219	178
23	209	226	527	7710	1130	2240	430	240	85	193	219	175
24	203	221	492	3950	1260	1720	417	233	141	192	220	181
25	202	218	429	2180	1950	1930	410	230	241	194	217	198
26	201	207	412	1990	2130	3050	410	239	255	203	214	201
27	200	199	400	13900	2150	2750	395	237	258	214	205	206
28	198	192	393	18100	1910	2160	382	226	279	221	196	218
29	197	186	387	14200	---	1840	367	215	296	222	192	217
30	198	186	370	7720	---	1640	354	206	302	218	191	211
31	198	---	325	5220	---	1490	---	198	---	218	192	---
TOTAL	6819	6226	29733	88146	56964	52508	18141	7597	4761	7258	6688	5759
MEAN	220	208	959	2843	2034	1694	605	245	159	234	216	192
MAX	245	248	8210	18100	6430	3100	1410	344	302	263	230	222
MIN	197	186	188	207	994	968	354	191	85	192	191	175
AC-FT	13530	12350	58980	174800	113000	104100	35980	15070	9440	14400	13270	11420
CAL YR 1980	TOTAL	579285	MEAN	1583	MAX	28700	MIN	171	AC-FT	1149000		
WTR YR 1981	TOTAL	290600	MEAN	796	MAX	18100	MIN	85	AC-FT	576400		

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

CHEMICAL ANALYSES: Water years 1951-66, 1980.

WATER TEMPERATURES: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1965 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 28.0°C July 13, 14, 1972, and June 21, 1981; minimum recorded, 5.0°C Dec. 10, 11, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 28.0°C June 21; minimum recorded, 8.0°C Dec. 11-14.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.5	19.5	14.0	12.5	11.5	10.5	11.0	10.0	10.5	9.0	12.0	10.5
2	23.5	20.0	16.0	13.5	12.5	11.5	10.5	10.0	11.5	9.5	13.0	10.5
3	23.5	20.0	17.5	14.5	12.0	11.5	11.5	10.5	11.5	9.5	13.0	11.5
4	23.5	20.0	17.5	15.0	12.0	11.0	12.0	10.5	11.5	9.5	13.0	11.5
5	22.5	19.5	17.0	15.0	10.5	9.5	11.5	10.0	11.5	10.5	12.5	9.5
6	22.0	19.0	16.5	14.0	10.5	9.0	11.0	10.5	11.0	9.5	13.0	10.0
7	22.0	18.5	16.5	15.5	10.0	9.0	11.0	10.0	11.5	10.0	12.5	11.0
8	22.0	18.0	16.0	14.0	9.5	8.5	11.0	10.0	11.5	10.5	14.0	11.5
9	21.5	18.0	15.0	13.0	10.0	8.5	10.5	9.5	12.5	10.5	14.5	11.5
10	20.0	18.0	14.5	13.0	9.5	8.5	10.0	9.0	12.5	11.5	14.5	12.0
11	18.5	16.5	14.0	12.0	9.5	8.0	10.0	9.0	12.5	12.0	15.0	12.5
12	19.0	17.0	13.5	11.0	9.5	8.0	10.0	9.0	13.5	12.0	14.5	12.5
13	18.0	15.5	12.5	10.5	9.0	8.0	10.5	8.5	13.5	12.5	13.5	11.5
14	17.0	15.0	13.0	10.0	9.5	8.0	11.0	9.0	13.0	12.0	13.5	11.0
15	17.0	14.0	13.0	10.5	10.0	8.5	12.0	9.5	13.5	11.5	13.0	11.5
16	17.0	14.0	12.5	10.5	10.5	9.0	13.0	12.0	13.0	11.5	13.5	10.5
17	17.0	14.0	13.5	11.5	11.0	9.5	13.0	12.0	13.5	11.0	14.0	11.0
18	17.5	13.5	13.5	11.0	11.5	10.5	12.5	11.0	14.0	11.5	13.0	12.0
19	17.5	14.0	13.5	11.0	12.0	11.0	12.5	12.0	13.5	12.5	13.0	12.0
20	18.0	14.0	13.0	11.0	12.0	11.0	12.5	12.5	12.5	10.5	12.0	11.0
21	18.0	14.5	12.5	10.5	12.0	11.5	13.0	12.5	13.0	10.0	13.0	10.5
22	18.5	15.0	14.0	12.5	12.5	11.5	13.0	12.5	13.5	11.0	14.0	12.0
23	18.0	15.0	15.0	13.5	12.0	10.5	12.5	11.5	13.5	11.5	14.0	11.5
24	17.0	16.0	13.5	12.0	11.0	10.5	11.5	10.5	12.5	11.0	13.5	12.0
25	17.0	15.0	12.5	10.0	12.0	11.0	10.5	9.5	11.5	9.5	14.0	13.0
26	16.0	13.0	12.0	10.0	12.0	11.5	10.0	9.5	11.0	10.0	13.5	11.5
27	16.5	13.5	12.0	9.5	12.5	11.5	10.5	10.0	12.0	10.0	14.0	10.5
28	16.0	13.0	12.0	10.0	12.5	11.5	10.5	10.0	12.0	11.0	15.5	11.5
29	16.0	13.0	13.0	11.0	12.0	11.5	10.0	9.5	---	---	15.0	12.5
30	15.0	13.0	13.5	11.5	12.0	11.5	10.5	9.5	---	---	14.5	11.5
31	14.5	12.0	---	---	12.0	11.0	10.5	9.0	---	---	14.0	11.5
MONTH	23.5	12.0	17.5	9.5	12.5	8.0	13.0	8.5	14.0	9.0	15.5	9.5

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

11464400 DRY CREEK NEAR YORKVILLE, CA

LOCATION.--Lat 38°47'21", long 123°19'16", in SE¼NE¼ sec.23, T.11 N., R.12 W., Sonoma County, Hydrologic Unit 18010110, on right bank at downstream side of bridge on Hot Springs Road, 0.1 mi (0.2 km) downstream from Rail Creek, 7.5 mi (12.1 km) west of Cloverdale, and 8.2 mi (13.2 km) southeast of Yorkville.

DRAINAGE AREA.--56.0 mi² (145.0 km²).

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

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 500 ft (152 m), from topographic map.

REMARKS.--Records good, except those for period of no gage-height record, Oct. 1 to Nov. 20, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--8 years, 112 ft³/s (3.172 m³/s), 81,140 acre-ft/yr (100 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,400 ft³/s (436 m³/s) Jan. 16, 1974, gage height, 13.50 ft (4.115 m); no flow many days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)				
Dec. 3	1915	3190	90.3	7.68	2.341	Jan. 27	0945	3130	88.6	7.64	2.329
Jan. 22	1200	*3360	95.2	7.76	2.365						

Minimum daily discharge, 0.15 ft³/s (0.004 m³/s) on several days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	.69	3.1	3.2	210	106	96	19	8.6	2.5	.59	.17
2	.42	.71	176	2.8	157	90	83	18	8.4	2.1	.56	.17
3	.52	.72	1250	4.8	121	80	73	18	7.9	1.8	.58	.16
4	.52	.73	555	5.7	95	219	65	18	7.8	2.5	.48	.16
5	.33	.75	75	4.3	74	146	60	17	6.2	2.3	.50	.16
6	.25	.85	32	3.6	63	122	56	17	6.2	1.7	.49	.15
7	.42	1.0	19	3.2	53	110	52	16	6.2	3.5	.71	.15
8	.52	1.2	11	2.9	45	98	49	15	6.2	2.2	.48	.15
9	.64	1.4	8.0	2.7	42	87	46	15	6.2	2.0	.30	.15
10	.64	1.5	6.1	2.4	35	76	43	15	6.2	2.2	.26	.15
11	.64	1.5	4.9	2.2	35	72	40	14	6.0	2.3	.30	.15
12	1.1	1.6	4.0	2.0	31	65	39	14	5.3	2.3	.30	.15
13	1.0	1.7	3.4	1.9	421	61	37	13	5.1	2.2	.28	.15
14	1.2	1.7	2.9	1.7	575	55	35	13	5.0	2.1	.28	.15
15	.90	1.7	2.6	1.7	292	103	33	13	4.9	2.0	.24	.15
16	.77	1.7	2.3	1.4	220	87	33	13	4.2	1.8	.25	.15
17	.70	2.0	2.0	109	175	66	32	12	3.4	1.6	.29	.15
18	.68	1.7	1.9	60	129	73	31	19	3.4	1.3	.34	.15
19	.65	1.7	1.7	95	108	75	35	16	3.4	1.3	.31	.15
20	.65	1.5	1.7	98	87	116	32	14	3.4	1.3	.29	.15
21	.65	1.5	64	81	74	333	29	13	3.5	1.8	.15	.15
22	.65	1.9	32	2340	64	234	27	13	3.0	1.2	.20	.15
23	.66	2.2	14	886	60	179	26	12	2.8	1.0	.26	.15
24	.70	2.2	9.6	393	126	151	25	11	2.8	.98	.27	.16
25	.73	2.2	7.5	228	124	223	24	11	2.7	.97	.25	.21
26	.75	2.2	6.3	262	118	239	24	13	2.4	.97	.23	.21
27	.70	2.2	5.4	2070	139	181	23	12	2.4	.92	.32	.21
28	.68	2.2	4.8	1460	115	154	22	9.9	2.4	.82	.49	.21
29	.68	2.2	4.1	1000	---	135	22	9.8	2.3	.77	.19	.21
30	.68	2.5	3.6	490	---	117	21	9.3	3.1	.73	.19	.21
31	.68	---	3.5	302	---	105	---	9.2	---	.60	.22	---
TOTAL	20.63	47.65	2317.4	9933.1	3788	3958	1213	432.2	141.4	51.76	10.60	4.94
MEAN	.67	1.59	74.8	320	135	128	40.4	13.9	4.71	1.67	.34	.16
MAX	1.2	2.5	1250	2340	575	333	96	19	8.6	3.5	.71	.21
MIN	.25	.69	1.7	1.7	31	55	21	9.2	2.3	.60	.15	.15
AC-FT	41	95	4600	19700	7510	7850	2410	857	280	103	21	9.8
CAL YR 1980	TOTAL	48198.58	MEAN	132	MAX	3820	MIN	.25	AC-FT	95600		
WTR YR 1981	TOTAL	21918.68	MEAN	60.1	MAX	2340	MIN	.15	AC-FT	43480		

RUSSIAN RIVER BASIN

11464860 WARM SPRINGS CREEK NEAR ASTI, CA

LOCATION.--Lat 38°41'46", long 123°05'44", in SW¼SE¼ sec.20, T.10 N., R.11 W., Sonoma County, Hydrologic Unit 18010110, on left bank 0.6 mi (1.0 km) upstream from Strawberry Creek, and 7.9 mi (12.7 km) southwest of Asti.

DRAINAGE AREA.--12.2 mi² (31.6 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 625 ft (191 m), from topographic map.

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

AVERAGE DISCHARGE.--8 years, 27.5 ft³/s (0.779 m³/s), 19,920 acre-ft/yr (24.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft³/s (65.7 m³/s) Jan. 14, 1978, gage height, 9.82 ft (2.993 m); no flow many days in 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,020 (28.9 m³/s) Dec. 3 (1500 hrs), gage height, 7.35 ft (2.240 m), no other peak above base of 900 ft³/s (25.5 m³/s); minimum daily, no flow Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.42	.35	3.0	78	68	23	5.6	2.5	.65	.20	.01
2	.35	.45	.35	2.9	59	60	21	5.5	2.4	.60	.20	.01
3	.34	.47	196	4.5	48	53	20	5.4	2.3	.55	.17	.05
4	.33	.46	78	4.5	39	69	18	5.3	2.2	.50	.17	.06
5	.33	.46	28	3.7	34	55	17	5.1	2.1	.64	.16	.03
6	.32	.47	16	3.5	30	50	16	4.9	1.9	.60	.14	.01
7	.31	.57	10	3.3	26	46	15	4.8	1.9	.49	.12	.04
8	.31	.66	7.8	3.2	25	41	15	4.6	2.1	.45	.10	.06
9	.32	.66	6.2	3.0	22	38	14	4.4	2.1	.40	.10	.05
10	.32	.66	5.3	2.9	20	34	13	4.2	2.0	.40	.09	.02
11	.39	.66	4.7	2.9	18	32	13	4.1	1.9	.39	.12	.01
12	.71	.66	4.4	2.7	16	29	12	3.8	1.8	.40	.12	.02
13	.67	.66	4.0	2.7	77	28	12	3.7	1.8	.39	.12	.05
14	.74	.66	3.7	2.5	122	25	12	3.8	1.9	.36	.14	.06
15	.58	.66	3.5	2.7	79	35	12	3.8	1.8	.33	.14	.04
16	.47	.66	3.4	7.2	58	29	11	3.7	1.6	.33	.10	.04
17	.44	.66	3.4	34	46	25	10	3.6	1.4	.34	.09	.06
18	.43	.66	3.3	28	39	26	10	6.5	1.3	.35	.09	.04
19	.42	.66	3.2	36	33	26	11	4.4	1.2	.31	.13	.03
20	.42	.64	3.1	51	30	44	9.7	4.0	1.1	.27	.14	0
21	.41	.56	9.7	44	27	109	9.4	3.7	1.0	.25	.11	.01
22	.41	.35	7.0	530	24	80	9.0	3.5	.95	.23	.08	.01
23	.40	.35	5.0	211	22	56	8.5	3.4	.87	.22	.07	.04
24	.41	.35	4.4	105	48	50	8.0	3.4	.87	.22	.05	.09
25	.47	.35	4.1	64	50	55	7.9	3.3	.85	.19	.04	.32
26	.48	.35	3.8	65	81	44	7.5	3.3	.80	.19	.04	.13
27	.46	.36	3.7	459	82	38	7.2	3.2	.76	.19	.07	.21
28	.42	.36	3.5	447	77	34	6.7	2.9	.65	.20	.02	.20
29	.41	.35	3.3	303	---	31	6.4	2.8	.65	.20	.01	.16
30	.42	.35	3.2	166	---	28	5.9	2.7	.66	.20	.01	.16
31	.42	---	3.1	109	---	25	---	2.7	---	.21	.02	---
TOTAL	13.27	15.59	435.50	2707.2	1310	1363	361.2	126.1	45.36	11.05	3.16	2.02
MEAN	.43	.52	14.0	87.3	46.8	44.0	12.0	4.07	1.51	.36	.10	.067
MAX	.74	.66	196	530	122	109	23	6.5	2.5	.65	.20	.32
MIN	.31	.35	.35	2.5	16	25	5.9	2.7	.65	.19	.01	0
AC-FT	26	31	864	5370	2600	2700	716	250	90	22	6.3	4.0
CAL YR 1980	TOTAL	12608.50	MEAN	34.4	MAX	816	MIN	.31	AC-FT	25010		
WTR YR 1981	TOTAL	6393.45	MEAN	17.5	MAX	530	MIN	0	AC-FT	12680		

11465150 PENA CREEK NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°42'02", long 122°58'16", in sec. 21, T.10 N., R.10 W., Sonoma County Hydrologic Unit 18010110, on right bank on upstream side of bridge on West Dry Creek Road, 1.1 mi (1.8 km) upstream from mouth, and 3.7 mi (6.0 km) west of Geyserville.

DRAINAGE AREA.--22.3 mi² (57.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to 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 km²) in summer months.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,060 ft³/s (86.7 m³/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 ft³/s (27 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Dec. 3	1815	*1710	48.4	6.61	2.015	Jan. 27	0945	1240	35.1	6.08	1.853
Jan. 22	1315	1130	32.0	5.94	1.811						

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.87	95	61	39	7.2	1.5			
2			9.4	.82	71	56	35	6.3	1.3			
3			520	1.2	55	52	32	6.0	.89			
4			131	1.5	46	87	29	6.0	.54			
5			29	1.2	38	69	27	5.9	.14			
6			14	1.1	36	62	25	5.4	0			
7			8.9	1.0	35	57	23	5.5	0			
8			5.9	.94	32	53	22	5.1	0			
9			4.3	.87	30	48	21	4.7	0			
10			3.3	.87	27	44	20	4.1	0			
11			2.7	.79	26	40	19	4.0	0			
12			2.2	.78	24	36	17	3.7	0			
13			2.0	.72	81	34	16	3.5	0			
14			1.7	.63	148	31	16	3.2	0			
15			1.6	.60	88	47	15	2.9	0			
16			1.4	2.7	67	42	14	2.9	0			
17			1.2	24	55	35	14	2.6	0			
18			1.0	26	47	35	14	4.8	0			
19			.90	47	44	35	15	4.7	0			
20			.87	49	39	58	14	4.5	0			
21			3.9	34	40	162	13	4.0	0			
22			4.2	572	36	128	12	3.4	0			
23			2.2	260	37	102	11	2.9	0			
24			1.7	129	45	83	11	2.7	0			
25			1.6	86	40	85	11	4.0	0			
26			1.5	84	61	82	10	3.8	0			
27			1.4	750	66	68	9.5	2.9	0			
28			1.2	738	63	60	9.1	2.4	0			
29			1.1	428	---	53	9.0	2.1	0			
30			1.1	204	---	47	8.2	1.8	0			
31		---	.96	130	---	42	---	1.6	---			---
TOTAL	0	0	762.23	3577.59	1472	1894	530.8	124.6	4.37	0	0	0
MEAN	0	0	24.6	115	52.6	61.1	17.7	4.02	.15	0	0	0
MAX	0	0	520	750	148	162	39	7.2	1.5	0	0	0
MIN	0	0	0	.60	24	31	8.2	1.6	0	0	0	0
AC-FT	0	0	1510	7100	2920	3760	1050	247	8.7	0	0	0
CAL YR 1980	TOTAL	17733.49	MEAN	48.5	MAX	1420	MIN	0	AC-FT	35170		
WTR YR 1981	TOTAL	8365.59	MEAN	22.9	MAX	750	MIN	0	AC-FT	16590		

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 42 ft³/s (1.19 m³/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 1979-81.

SEDIMENT DISCHARGE: Maximum daily, 15,900 tons (14,400 metric tons) Jan. 13, 1980; minimum daily, 0 ton (0 metric ton) many days in 1979-81.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,710 mg/L Jan. 27; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE: Maximum daily, 3,840 tons (3,480 metric tons) Jan. 27; minimum daily, 0 ton (0 metric ton) many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	---	---	11.0	---	---				
2			---	---	---	---	---	---				
3				10.0	---	---	---	21.5				
4			10.5	11.0	---	---	---	---				
5			---	---	---	13.0	---	---				
6			8.0	8.5	---	---	---	---				
7			---	---	---	---	---	---				
8			---	11.0	---	---	---	---				
9			---	---	11.0	---	---	---				
10			---	---	---	---	---	19.5				
11			---	---	---	14.5	---	---				
12			---	---	---	---	---	---				
13			---	---	11.0	---	19.0	---				
14			---	---	13.5	13.0	---	---				
15			---	---	---	10.5	---	---				
16			---	---	---	---	---	---				
17			8.0	---	13.5	---	---	---				
18			---	---	---	10.0	---	---				
19			---	---	---	13.0	---	---				
20			---	---	---	---	19.0	18.5				
21			---	---	---	---	---	---				
22			---	---	12.0	---	---	---				
23			---	---	---	---	---	---				
24			---	---	---	12.5	20.0	---				
25			---	---	---	---	---	---				
26			---	---	---	---	---	---				
27			---	11.0	---	---	15.5	---				
28			---	11.0	---	---	---	---				
29			---	---	---	---	---	---				
30			---	---	---	---	---	---				
31			---	---	---	---	---	---				
MONTH			---	---	---	---	---	---				

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							0	0	0
2							9.4	3	.35
3							520	945	2420
4							131	287	183
5							29	31	2.4
6							14	6	.23
7							8.9	6	.14
8							5.9	5	.08
9							4.3	5	.06
10							3.3	4	.04
11							2.7	4	.03
12							2.2	3	.02
13							2.0	3	.02
14							1.7	2	.01
15							1.6	2	.01
16							1.4	1	0
17							1.2	1	0
18							1.0	1	0
19							.90	1	0
20							.87	1	0
21							3.9	2	.02
22							4.2	2	.02
23							2.2	2	.01
24							1.7	2	.01
25							1.6	2	.01
26							1.5	3	.01
27							1.4	3	.01
28							1.2	3	.01
29							1.1	3	.01
30							1.1	3	.01
31							.96	3	.01
TOTAL	0	0	0	0	0	0	762.23	---	2606.52
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	.87	4	.01	95	65	17	61	3	.49
2	.82	4	.01	71	30	5.8	56	3	.45
3	1.2	4	.01	55	18	2.7	52	3	.42
4	1.5	4	.02	46	12	1.5	87	4	1.1
5	1.2	4	.01	38	10	1.0	69	1	.19
6	1.1	5	.01	36	8	.78	62	1	.17
7	1.0	5	.01	35	6	.57	57	2	.31
8	.94	5	.01	32	4	.35	53	2	.29
9	.87	5	.01	30	3	.24	48	3	.39
10	.87	5	.01	27	3	.22	44	4	.48
11	.79	5	.01	26	3	.21	40	5	.54
12	.78	5	.01	24	3	.19	36	5	.49
13	.72	5	.01	81	86	24	34	5	.46
14	.63	5	.01	148	113	58	31	5	.42
15	.60	5	.01	88	18	4.3	47	10	1.5
16	2.7	26	.19	67	10	1.8	42	4	.45
17	24	42	3.7	55	5	.74	35	3	.28
18	26	27	1.9	47	5	.63	35	2	.19
19	47	69	12	44	4	.48	35	2	.19
20	49	45	6.0	39	4	.42	58	5	1.2
21	34	23	2.1	40	3	.32	162	11	5.0
22	572	851	1650	36	3	.29	128	5	1.7
23	260	380	267	37	3	.30	102	4	1.1
24	129	240	84	45	3	.36	83	4	.90
25	86	160	37	40	3	.32	85	4	.92
26	84	230	52	61	3	.49	82	4	.89
27	750	1710	3840	66	3	.53	68	4	.73
28	738	1200	2660	63	3	.51	60	4	.65
29	428	315	364	---	---	---	53	4	.57
30	204	175	96	---	---	---	47	4	.51
31	130	95	33	---	---	---	42	4	.45
TOTAL	3577.59	---	9109.05	1472	---	124.05	1894	---	23.43

RUSSIAN RIVER BASIN

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	39	3	.32	7.2	2	.04	1.5	1	
2	35	3	.28	6.3	2	.03	1.3	1	
3	32	3	.26	6.0	2	.03	.89	1	
4	29	3	.23	6.0	2	.03	.54	1	
5	27	3	.22	5.9	2	.03	.14	1	
6	25	3	.20	5.4	2	.03	0	0	
7	23	3	.19	5.5	2	.03	0	0	
8	22	3	.18	5.1	2	.03	0	0	
9	21	3	.17	4.7	2	.03	0	0	
10	20	3	.16	4.1	2	.02	0	0	
11	19	2	.10	4.0	2	.02	0	0	
12	17	2	.09	3.7	2	.02	0	0	
13	16	2	.09	3.5	2	.02	0	0	
14	16	2	.09	3.2	2	.02	0	0	
15	15	2	.08	2.9	2	.02	0	0	
16	14	2	.08	2.9	2	.02	0	0	
17	14	2	.08	2.6	2	.01	0	0	
18	14	2	.08	4.8	2	.03	0	0	
19	15	2	.08	4.7	2	.03	0	0	
20	14	2	.08	4.5	2	.02	0	0	
21	13	2	.07	4.0	1	.01	0	0	
22	12	2	.06	3.4	1	.01	0	0	
23	11	2	.06	2.9	1	.01	0	0	
24	11	2	.06	2.7	1	.01	0	0	
25	11	2	.06	4.0	1	.01	0	0	
26	10	2	.05	3.8	1	.01	0	0	
27	9.5	2	.05	2.9	1	.01	0	0	
28	9.1	2	.05	2.4	1	.01	0	0	
29	9.0	2	.05	2.1	1	.01	0	0	
30	8.2	2	.04	1.8	1	0	0	0	
31	---	---	---	1.6	1	0	---	---	
TOTAL	530.8	---	3.61	124.6	---	.60	4.37	---	0
PERIOD	8365		11867						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1980	0.0	0.0	0	0
NOVEMBER ...	0.0	0.0	0	0
DECEMBER ...	762.23	2606.52	312	2920
JANUARY 1981	3577.59	9109.05	1650	10800
FEBRUARY ...	1472.00	124.05	159	283
MARCH	1894.00	23.43	252	275
APRIL	530.8	3.61	0	4
MAY	124.6	0.60	0	1
JUNE	4.37	0.0	0	0
JULY	0.0	0.0	0	0
AUGUST	0.0	0.0	0	0
SEPTEMBER ..	0.0	0.0	0	0
TOTAL	8365.59	11867.26	2373	14283

11465150 PENA CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 .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 04...	1140	10.5	114	90	28	--	--	--	--	--
JAN 27...	1000	11.0	1210	2820	9210	21	30	40	52	63
27...	1100	11.0	1110	1820	5460	26	35	46	58	71
28...	1425	11.0	580	567	888	--	--	--	--	--

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. FALL DIAM. % FINER THAN 2.00 MM
DEC 04...	97	--	99	--	99	--	100	--	--	--
JAN 27...	--	76	--	87	--	96	--	99	--	100
27...	--	83	--	91	--	99	--	100	--	--
28...	59	--	73	--	90	--	99	--	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
JUN 25...	1130	4	.00	1	2	4	10

DATE	RED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	RED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	RED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	RED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	RED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	RED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	RED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
JUN 25...	19	27	36	50	68	96	100

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°41'55", long 122°57'25", in Tzabaco Grant, Sonoma County, Hydrologic Unit 18010110, on left bank pier of bridge 0.3 mi (0.5 km) downstream from Pena Creek, and 3 mi (5 km) west of Geyserville. *about 3 mi below Dam.*

DRAINAGE AREA.--162 mi² (420 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 158.40 ft (48.280 m), National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1964, at datum 2.00 ft (0.610 m) higher. Oct. 1, 1964, to Apr. 8, 1976, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records 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 km²) in summer.

AVERAGE DISCHARGE.--22 years, 311 ft³/s (8.808 m³/s), 225,300 acre-ft/yr (278 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,400 ft³/s (918 m³/s) Jan. 31, 1963, gage height, 18.50 ft (5.639 m) present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,710 ft³/s (133 m³/s) Jan. 27, gage height 8.49 ft (2.588 m) no peak above base of 8,200 ft³/s (232 m³/s); minimum daily, no flow Aug. 20 to Sept. 30.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.35	.88	20	1210	410	293	53	18	2.4	.29	
2	.40	.38	6.7	19	712	358	267	49	16	2.1	.37	
3	.40	.40	1410	18	481	321	239	48	17	2.1	.35	
4	.40	.40	1900	21	377	450	216	45	16	2.2	.30	
5	.40	.40	959	24	322	470	196	41	16	1.9	.26	
6	.40	.40	325	24	282	389	180	40	15	1.7	.24	
7	.40	.42	147	22	249	343	166	39	15	1.7	.21	
8	.40	.51	90	19	224	317	155	38	15	1.4	.17	
9	.39	.57	60	18	207	286	144	37	23	1.2	.15	
10	.38	.46	43	18	188	258	135	36	42	1.1	.13	
11	.40	.45	35	17	178	236	126	35	39	1.0	.11	
12	.45	.45	32	16	166	217	118	33	40	1.2	.09	
13	.45	.43	26	15	456	203	111	32	43	1.5	.07	
14	.45	.43	22	14	1400	186	108	31	31	1.2	.05	
15	.45	.45	17	14	1060	205	103	30	28	.95	.03	
16	.45	.51	15	16	738	265	98	29	34	.80	.02	
17	.41	.57	14	104	551	228	93	29	32	.74	.02	
18	.40	.57	13	222	428	204	90	31	28	.66	.01	
19	.40	.57	11	253	360	209	94	37	22	.60	.01	
20	.40	.57	8.7	358	315	251	94	38	22	.56	0	
21	.40	.57	20	341	279	782	88	34	12	.52	0	
22	.40	.78	87	2480	247	831	82	30	12	.48	0	
23	.40	.87	75	2980	225	643	78	28	8.0	.45	0	
24	.40	.84	50	2240	252	507	73	27	9.6	.42	0	
25	.40	.61	40	1320	345	520	69	25	10	.40	0	
26	.40	.51	34	841	385	600	68	24	8.0	.38	0	
27	.40	.60	29	2960	446	537	64	23	6.6	.36	0	
28	.40	.64	26	3850	431	453	60	23	4.7	.34	0	
29	.40	.65	25	3540	---	397	57	21	3.8	.33	0	
30	.36	.81	23	2890	---	351	55	20	3.0	.31	0	
31	.35	---	21	2060	---	317	---	19	---	.30	0	---
TOTAL	12.54	16.17	5565.28	26734	12514	11744	3720	1025	589.7	31.30	2.88	0
MEAN	.40	.54	180	862	447	379	124	33.1	19.7	1.01	.093	0
MAX	.45	.87	1900	3850	1400	831	293	53	43	2.4	.37	0
MIN	.35	.35	.88	14	166	186	55	19	3.0	.30	0	0
AC-FT	25	32	11040	53030	24820	23290	7380	2030	1170	62	5.7	0
CAL YR 1980 TOTAL		130337.03		MEAN 356	MAX 10200	MIN .35	AC-FT 258500					
WTR YR 1981 TOTAL		61954.87		MEAN 170	MAX 3850	MIN 0	AC-FT 122900					

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.--Zero bedload discharge observed at flows less than 110 ft³/s (3.12 m³/s).

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 28.5°C June 15, 1980; minimum recorded, 3.5°C Jan. 3, 1974.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 15,000 mg/L (estimated) Dec. 22, 1964; minimum daily mean, no flow many days in 1964, 1966, 1970-81.

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, 1968-81.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 28.0°C June 19-20; minimum recorded, 8.5°C Dec. 10, 12-14.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 905 mg/L Jan. 22; minimum daily mean, no flow many days.

SEDIMENT DISCHARGE: Maximum daily, 7,170 tons (6,500 metric tons) Jan. 27; minimum daily, 0 ton (0 metric ton) many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
FEB , 1981												
04...	1130	375	185	7.5	10.5	7.9	10.6	80	--	17	9.0	8.0
MAR												
23...	1130	640	173	7.9	12.5	33	10.5	75	4.0	16	8.4	7.7
JUN												
09...	0945	21	278	7.5	20.5	.80	9.0	130	10	29	14	14
DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (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)
FEB , 1981												
04...	18	.4	.8	79	13	4.2	.1	18	119	.16	120	.26
MAR												
23...	18	.4	.7	71	13	3.6	.2	16	109	.15	188	.07
JUN												
09...	19	.5	1.1	120	20	6.2	.1	14	171	.23	9.7	.04
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- SOLVED (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)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
FEB , 1981												
04...	.27	.03	.02	.20	.21	.23	.23	.49	.08	.02	6.8	--
MAR												
23...	.08	.03	.05	1.2	.45	1.20	.50	1.3	.07	.01	4.5	--
JUN												
09...	.04	.08	.09	.53	.40	.61	.49	.65	.04	.03	5.1	.3

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 CU)	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)
FEB , 1981												
04...	1	0	10	120	0	<1	0	10	10	17	6	2
MAR												
23...	0	0	10	90	0	3	0	20	10	16	5	4
JUN												
09...	1	1	4	340	2	<1	0	20	10	16	4	2

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)
FEB , 1981												
04...	13	40	5	0	10	350	.2	.0	.05	20	7	23
MAR												
23...	11	50	0	3	5	290	.1	.1	.06	20	30	15
JUN												
09...	10	10	2	0	0	220	.1	.0	.03	30	--	17

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	19.5	14.5	14.5	11.5	11.0	11.5	10.5	10.5	10.0	12.0	11.0
2	21.0	19.5	15.5	14.5	12.0	11.5	11.0	11.0	10.5	9.5	12.5	11.0
3	21.0	19.5	15.5	14.0	11.5	11.5	12.0	11.0	11.0	9.5	12.5	11.5
4	21.5	20.0	16.0	14.5	12.0	11.5	12.5	11.0	11.0	9.5	12.0	11.5
5	21.0	20.0	15.5	15.0	11.5	11.0	12.5	10.5	11.0	10.0	12.5	11.0
6	21.0	19.5	16.5	15.0	11.0	10.0	12.0	11.0	11.5	10.0	12.5	11.0
7	21.0	19.5	15.5	15.0	11.0	9.5	11.5	11.0	11.5	10.0	12.0	11.0
8	21.0	19.0	16.0	15.0	10.5	9.0	11.5	11.0	10.5	10.0	13.5	11.5
9	20.5	19.0	16.0	15.0	10.5	9.0	12.0	11.0	12.0	10.5	14.5	11.5
10	20.0	18.5	15.5	14.5	10.5	8.5	11.5	10.5	11.5	11.0	14.5	12.5
11	19.0	18.5	15.0	14.0	10.5	9.0	10.5	10.0	12.0	11.0	15.0	12.5
12	19.0	18.0	15.0	13.5	10.0	8.5	10.5	10.0	13.5	11.0	13.5	13.0
13	18.5	17.5	14.5	13.5	10.5	8.5	12.5	10.0	12.0	11.5	14.0	12.5
14	18.0	17.0	14.0	13.0	10.5	8.5	12.5	10.5	12.5	11.5	14.5	12.0
15	18.0	16.5	13.5	12.5	11.0	9.0	12.5	10.5	13.0	12.5	12.5	12.0
16	18.0	16.5	13.0	12.5	11.0	9.0	13.0	11.5	13.0	12.5	14.0	11.5
17	17.5	16.0	13.0	12.0	11.0	9.5	11.5	11.0	13.0	12.5	14.0	11.5
18	17.5	16.0	13.0	12.0	11.0	10.5	12.0	11.0	13.5	12.5	12.5	12.0
19	17.5	15.5	13.0	12.0	11.5	11.0	---	---	14.0	12.5	13.5	12.0
20	17.5	15.5	12.5	12.0	12.0	10.5	---	---	13.5	12.0	12.0	11.5
21	17.0	16.0	12.5	12.0	11.5	9.5	---	---	13.5	11.5	12.0	11.5
22	17.5	15.5	12.0	12.0	11.0	9.5	---	---	13.5	11.5	13.5	11.5
23	17.0	15.5	13.5	12.0	11.0	10.0	---	---	12.6	11.5	13.5	12.0
24	16.5	16.0	13.5	12.5	11.0	10.0	---	---	12.0	11.5	13.0	12.0
25	17.0	16.0	13.5	12.5	12.0	11.0	---	---	12.0	11.0	13.5	12.5
26	17.0	15.5	13.0	12.0	12.0	11.0	---	---	11.0	10.5	13.5	12.5
27	17.0	16.0	12.5	11.5	12.5	11.0	---	---	11.5	10.5	14.0	12.5
28	17.0	15.5	12.0	11.5	12.5	11.5	10.5	10.5	11.0	11.0	15.0	12.5
29	16.5	15.0	11.5	11.0	12.5	11.0	10.5	10.5	---	---	15.0	13.5
30	16.0	15.0	12.0	11.5	12.5	11.5	10.5	10.5	---	---	15.0	13.0
31	16.0	14.5	---	---	12.0	11.0	11.0	10.5	---	---	15.0	13.0
MONTH	21.5	14.5	16.5	11.0	12.5	8.5	---	---	14.0	9.5	15.0	11.0

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	13.0			---	---	24.5	19.0				
2	15.5	13.0			---	---	25.0	19.0				
3	16.0	13.0			---	---	27.0	20.0				
4	16.5	13.5			---	---	24.0	20.0				
5	18.0	14.0			---	---	24.5	21.0				
6	18.5	14.5			---	---	24.5	19.5				
7	18.5	15.0			---	---	23.5	18.5				
8	18.0	15.0			---	---	25.0	21.5				
9	18.5	14.5			---	---	24.5	22.0				
10	18.5	15.0			---	---	24.5	22.0				
11	18.5	14.5			---	---	25.0	22.0				
12	19.0	15.0			---	---	---	---				
13	---	---			---	---	---	---				
14	---	---			---	---	---	---				
15	---	---			---	---	---	---				
16	---	---			---	---	---	---				
17	---	---			26.5	19.5	---	---				
18	---	---			26.5	20.0	---	---				
19	---	---			28.0	20.5	---	---				
20	---	---			28.0	21.0	---	---				
21	---	---			27.5	21.0	---	---				
22	---	---			27.5	21.5	---	---				
23	---	---			26.5	20.5	---	---				
24	---	---			25.5	20.5	---	---				
25	---	---			25.5	20.0	---	---				
26	---	---			26.5	20.5	---	---				
27	---	---			26.5	20.5	---	---				
28	---	---			26.0	21.0	---	---				
29	---	---			25.5	20.0	---	---				
30	---	---			25.0	19.5	---	---				
31	---	---			---	---	---	---				
MONTH	---	---			---	---	---	---				
YEAR	28.0	8.5										

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.40	1		.35	1	0			
2	.40	1		.38	1	0	.88	5	.01
3	.40	1		.40	1	0	6.7	18	1.7
4	.40	1		.40	1	0	1410	882	4610
5	.40	1		.40	1	0	1900	846	4480
6	.40	2		.40	1	0	959	458	1190
7	.40	2		.40	1	0	325	310	272
8	.40	2		.42	1	0	147	255	101
9	.39	2		.51	2	0	90	215	52
10	.38	2		.57	2	0	60	182	29
11	.40	2		.46	1	0	43	150	17
12	.40	2		.45	1	0	35	130	12
13	.45	2		.45	1	0	32	118	10
14	.45	2		.43	1	0	26	105	7.4
15	.45	2		.43	1	0	22	85	5.0
16	.45	2		.45	1	0	17	81	3.7
17	.45	2		.51	2	0	15	61	2.5
18	.41	2		.57	2	0	14	49	1.9
19	.40	2		.57	2	0	13	49	1.7
20	.40	2		.57	2	0	11	40	1.2
21	.40	2		.57	2	0	8.7	28	.66
22	.40	2		.57	2	0	20	69	4.4
23	.40	2		.78	4	.01	87	72	17
24	.40	2		.87	5	.01	75	38	7.7
25	.40	2		.84	4	.01	50	36	4.9
26	.40	2		.61	3	0	40	40	4.3
27	.40	2		.51	2	0	34	27	2.5
28	.40	2		.60	2	0	29	20	1.6
29	.40	2		.64	2	0	26	14	.98
30	.36	1		.65	2	0	25	13	.88
31	.35	1		.81	4	.01	23	15	.93
TOTAL	12.54	---	0	16.17	---	.04	5565.28	---	10844.64

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	20	11	.59	1210	132	431	410	16	18
2	19	9	.46	712	62	119	358	11	11
3	18	12	.58	481	37	48	321	7	6.1
4	21	15	.85	377	29	30	450	50	62
5	24	13	.84	322	22	19	470	23	29
6	24	16	1.0	282	18	14	389	27	28
7	22	13	.77	249	19	13	343	19	18
8	19	12	.62	224	17	10	317	12	10
9	18	15	.73	207	14	7.8	286	6	4.6
10	18	11	.53	188	13	6.6	258	6	4.2
11	17	10	.46	178	10	4.8	236	7	4.5
12	16	10	.43	166	8	3.6	217	9	5.3
13	15	9	.36	456	302	540	203	8	4.4
14	14	9	.34	1400	271	1020	186	7	3.5
15	14	10	.38	1060	147	421	205	11	6.1
16	16	15	.72	738	85	169	265	9	6.4
17	104	67	22	551	50	74	228	7	4.3
18	222	57	34	428	29	34	204	8	4.4
19	253	92	68	360	22	21	209	5	2.8
20	358	80	77	315	19	16	251	15	12
21	341	51	47	279	17	13	782	94	206
22	2480	905	7100	247	14	9.3	831	59	132
23	2980	579	4660	225	9	5.5	643	34	59
24	2240	312	1890	252	12	8.2	507	21	29
25	1320	225	802	345	18	17	520	27	38
26	841	173	394	385	29	31	600	19	31
27	2960	833	7170	446	33	39	537	17	25
28	3850	644	6850	431	26	30	453	14	17
29	3540	381	3700	---	---	---	397	8	8.6
30	2890	248	1940	---	---	---	351	8	7.6
31	2060	191	1060	---	---	---	317	7	6.0
TOTAL	26734	---	35823.66	12514	---	3154.8	11744	---	803.8

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	293	4	3.2	53	3	.43	18	10	.49
2	267	8	5.8	49	4	.53	16	3	.13
3	239	8	5.2	48	4	.52	17	5	.23
4	216	6	3.5	45	3	.36	16	9	.39
5	196	5	2.6	41	3	.33	16	6	.26
6	180	5	2.4	40	3	.43	15	11	.45
7	166	6	2.7	39	3	.32	15	4	.16
8	155	7	2.9	38	5	.51	15	4	.16
9	144	7	2.7	37	4	.40	23	7	.43
10	135	5	1.8	36	2	.19	42	13	1.5
11	126	7	2.4	35	6	.57	39	6	.63
12	118	4	1.3	33	4	.36	40	9	.97
13	111	5	1.5	32	9	.78	43	15	1.7
14	108	9	2.6	31	7	.59	31	25	2.1
15	103	7	1.9	30	4	.32	28	10	.76
16	98	8	2.1	29	7	.55	34	10	.92
17	93	9	2.3	29	6	.47	32	17	1.5
18	90	8	1.9	31	6	.50	28	16	1.2
19	94	4	1.0	37	4	.40	22	18	1.1
20	94	8	2.0	38	11	1.1	22	17	1.0
21	88	5	1.2	34	15	1.4	12	8	.26
22	82	8	1.8	30	7	.57	12	16	.52
23	78	7	1.5	28	9	.68	8.0	17	.37
24	73	7	1.4	27	6	.44	9.6	8	.21
25	69	7	1.3	25	7	.47	10	6	.16
26	68	7	1.3	24	6	.39	8.0	4	.09
27	64	6	1.0	23	7	.43	6.6	4	.07
28	60	5	.81	23	6	.37	4.7	3	.04
29	57	6	.92	21	5	.28	3.8	4	.04
30	55	4	.59	20	8	.43	3.0	1	.01
31	---	---	---	19	8	.41	---	---	---
TOTAL	3720	---	63.62	1025	---	15.53	589.7	---	17.85

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	2.4	1	.01	.29	1				
2	2.1	1	.01	.37	1				
3	2.1	1	.01	.35	1				
4	2.2	3	.02	.30	1				
5	1.9	2	.01	.26	1				
6	1.7	1	0	.24	1				
7	1.7	1	0	.21	1				
8	1.4	1	0	.17	1				
9	1.2	1	0	.15	1				
10	1.1	1	0	.13	1				
11	1.0	1	0	.11	1				
12	1.2	2	.01	.09	1				
13	1.5	4	.02	.07	1				
14	1.2	3	.01	.05	1				
15	.95	2	.01	.03	1				
16	.80	1	0	.02	1				
17	.74	1	0	.02	1				
18	.66	1	0	.01	1				
19	.60	1	0	.01	1				
20	.56	1	0	0	0				
21	.52	1	0	0	0				
22	.48	1	0	0	0				
23	.45	1	0	0	0				
24	.42	1	0	0	0				
25	.40	1	0	0	0				
26	.38	1	0	0	0				
27	.36	1	0	0	0				
28	.34	1	0	0	0				
29	.33	1	0	0	0				
30	.31	1	0	0	0				
31	.30	1	0	0	0				
TOTAL	31.30	---	.11	2.88	---	0	0	0	0
YEAR	61954		50724						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1980	12.65	0.0	0	0
NOVEMBER ...	16.17	0.04	0	0
DECEMBER ...	5565.28	10844.64	1140	12000
JANUARY 1981	26734.00	35823.66	9930	45800
FEBRUARY ...	12514.00	3154.80	1120	4280
MARCH	11744.00	803.80	586	1390
APRIL	3720.00	63.62	15	79
MAY	1025.00	15.53	0	16
JUNE	589.70	17.85	0	18
JULY	31.30	0.11	0	0
AUGUST	2.88	0.0	0	0
SEPTEMBER ..	0.0	0.0	0	0
TOTAL	61954.87	50724.05	12791	63583

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM
DEC 04...	1705	11.5	1720	708	3290	--	71	90	92	94
JAN 19...	1545	11.5	294	145	115	60	74	83	90	95
27...	1350	10.0	3280	820	7260	30	41	51	60	69
FEB 20...	1300	13.0	315	18	15	--	--	--	--	--
MAR 23...	1105	12.5	652	32	56	--	--	--	--	--

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
DEC 04...	--	96	--	98	--	99	--	99	100
JAN 19...	--	97	--	98	--	99	--	100	--
27...	76	--	85	--	92	--	100	--	--
FEB 20...	--	90	--	93	--	96	--	100	--
MAR 23...	--	88	--	92	--	96	--	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW- INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JUN 25...	1220	23.0	1	10	--	--	--	3
25...	1225	23.0	1	10	1	2	3	6
25...	1230	23.0	1	10	--	1	1	2
25...	1235	23.0	1	10	1	3	6	6
25...	1240	23.0	1	10	4	18	58	75

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
JUN 25...	12	21	31	46	65	83	100
25...	9	15	20	29	46	74	100
25...	4	8	12	17	24	52	100
25...	7	14	29	56	87	100	--
25...	77	78	85	94	100	--	--

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION
AND TURBIDITY, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SFDM- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)	DATE	TIME	SFDM- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)
OCT				JAN			
10...	1200	2	1.0	31...	1500	186	170
NOV				FEB			
14...	0900	1	1.0	01...	1000	140	130
DEC				01...	1325	128	120
04...	0900	880	320	02...	0900	68	70
04...	1400	792	320	02...	1330	59	40
04...	1655	716	320	03...	0940	38	20
04...	1705	708	310	03...	1310	36	15
04...	1715	691	320	04...	1120	29	20
05...	0915	471	260	04...	1130	--	7.9
05...	1110	447	260	05...	0855	22	15
05...	1325	417	250	05...	1545	23	10
06...	0930	315	210	06...	0910	18	10
08...	0930	220	180	06...	1340	18	10
09...	1030	181	160	07...	0935	18	15
10...	1030	155	130	07...	1315	20	15
11...	0930	136	120	08...	0850	15	7.0
12...	1115	114	110	08...	1310	18	9.0
13...	1045	106	100	09...	0900	14	5.0
14...	1000	86	85	10...	0915	13	4.0
15...	1245	82	85	11...	0920	10	5.0
16...	1015	62	70	12...	0920	8	3.0
17...	1100	49	60	13...	0900	86	45
18...	1000	49	55	13...	1330	500	260
19...	0900	42	50	14...	0915	224	140
20...	1020	28	37	14...	1325	213	140
21...	0900	88	40	15...	0900	156	150
22...	0900	75	70	15...	1425	143	140
23...	0845	38	45	16...	0925	92	100
24...	0930	34	38	16...	1425	78	65
25...	0840	42	27	17...	1410	47	30
26...	0915	27	22	18...	0910	33	25
27...	0930	21	24	18...	1330	28	25
28...	0920	15	20	19...	0915	21	15
29...	0920	13	15	19...	1330	23	15
30...	0930	17	17	20...	0850	20	10
31...	0925	12	15	20...	1300	18	15
JAN				21...	0840	17	10
01...	0910	11	14	22...	0855	14	10
02...	1045	9	16	23...	0845	9	6.0
03...	1120	12	11	24...	0850	11	7.0
04...	1030	15	16	25...	0850	20	20
05...	1010	13	18	25...	1315	19	15
06...	0900	16	20	26...	0910	28	20
07...	0950	13	15	26...	1330	22	30
08...	0915	13	15	27...	0930	35	25
08...	1415	11	12	27...	1330	42	40
09...	0910	15	14	28...	0855	27	20
10...	0825	11	12	28...	1325	27	25
11...	0940	10	12	MAR			
14...	1200	9	7.0	01...	0900	20	15
15...	0840	10	8.0	01...	1310	14	10
16...	0950	9	5.0	02...	0855	11	10
17...	0925	77	55	03...	0850	7	7.0
18...	0945	53	25	04...	0910	158	150
19...	0905	51	35	04...	1320	46	25
19...	1545	145	95	05...	0900	23	15
20...	0910	82	45	06...	0855	27	20
21...	0855	53	45	07...	0950	19	15
22...	0915	1300	500	08...	0900	12	10
22...	1305	1370	750	09...	0845	6	3.0
23...	0940	597	400	10...	0850	6	3.0
23...	1325	572	450	11...	0825	7	4.0
24...	0930	321	270	12...	0940	9	3.0
24...	1335	297	240	13...	0900	8	2.0
25...	0945	227	200	14...	0855	7	2.0
25...	1305	231	230	15...	0845	11	2.0
26...	0920	155	140	16...	0810	9	3.0
26...	1310	187	170	17...	0840	7	3.0
27...	0905	1120	450	18...	0830	8	3.0
27...	1350	820	320	19...	0845	5	2.0
27...	1550	728	550	20...	0825	8	4.0
28...	0925	499	320	21...	0855	161	85
28...	1305	468	320	21...	1300	106	35
29...	0900	357	260	22...	0845	63	45
29...	1320	346	250	22...	1310	57	45
30...	0900	264	210	23...	0840	37	30
30...	0940	202	180	23...	1105	32	20
30...	1320	230	180	23...	1130	--	33
				23...	1220	33	25

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION
AND TURBIDITY, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SFDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)	DATE	TIME	SFDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)
MAR				JUN			
23...	1310	31	25	06...	0955	11	2.0
24...	0920	21	20	07...	0850	4	1.0
25...	0845	35	30	08...	0900	4	2.0
26...	0850	19	15	09...	0855	7	1.0
27...	0905	17	20	09...	0945	--	.80
28...	0825	14	10	10...	0900	13	3.0
29...	0905	8	8.0	11...	0845	6	2.0
30...	0900	8	5.0	12...	0905	9	3.0
31...	0850	7	3.0	13...	0705	15	5.0
APR				14...	0835	25	8.0
01...	0845	4	6.0	15...	0810	10	3.0
02...	0840	8	3.0	16...	0830	10	4.0
03...	0840	8	4.0	16...	1030	9	3.0
04...	0915	6	2.0	17...	0835	17	5.0
05...	0835	5	3.0	18...	0915	16	7.0
06...	0845	5	2.0	19...	0910	18	7.0
07...	0840	6	2.0	20...	0855	17	9.0
08...	0830	7	2.0	21...	0920	8	2.0
09...	0845	7	2.0	22...	0840	16	4.0
10...	0845	5	1.0	23...	0845	17	4.0
11...	0830	7	2.0	24...	0930	8	2.0
12...	0915	4	1.0	25...	0835	7	2.0
13...	0825	4	1.0	25...	1245	5	1.0
13...	1140	5	2.0	26...	0905	4	1.0
13...	1245	5	1.0	27...	0930	4	1.0
14...	0840	9	2.0	28...	0855	3	2.0
15...	0835	7	1.0	29...	0945	4	3.0
16...	0855	8	1.0	30...	0920	1	2.0
17...	0930	9	2.0				
18...	0945	8	2.0				
19...	0850	4	1.0				
20...	0855	8	2.0				
21...	0840	5	1.0				
22...	0850	8	3.0				
23...	0905	7	2.0				
24...	0845	7	2.0				
25...	0840	7	2.0				
26...	0850	7	1.0				
27...	0910	6	1.0				
28...	0900	5	2.0				
29...	0850	6	1.0				
30...	0955	4	2.0				
MAY							
01...	0855	3	1.0				
02...	0725	4	1.0				
03...	0855	4	2.0				
04...	0840	3	1.0				
05...	0845	3	1.0				
06...	0920	4	1.0				
07...	0905	3	2.0				
08...	0910	5	1.0				
09...	0910	4	1.0				
10...	0925	2	1.0				
11...	0905	6	1.0				
12...	0915	4	1.0				
13...	0900	9	2.0				
15...	0905	4	1.0				
16...	0900	7	1.0				
17...	0955	6	1.0				
18...	0835	6	1.0				
19...	0845	4	2.0				
20...	0840	12	6.0				
20...	1115	10	6.0				
21...	0835	15	5.0				
22...	0835	7	3.0				
23...	0845	9	3.0				
24...	0855	6	3.0				
25...	0850	7	2.0				
26...	0820	6	3.0				
27...	0900	7	2.0				
28...	0850	6	2.0				
29...	0845	5	2.0				
30...	0810	8	2.0				
31...	0935	8	1.0				
JUN							
01...	0925	10	2.0				
02...	0840	3	2.0				
03...	0855	5	1.0				
04...	0900	9	3.0				
05...	0855	6	1.0				

11465350 DRY CREEK NEAR MOUTH NEAR HEALDSBURG, CA

LOCATION.--Lat 38°35'15", long 122°51'40", in Sotoyome Grant, Sonoma County, Hydrologic Unit 18010110, on right bank 0.25 mi (0.40 km) upstream from mouth, 0.4 mi (0.64 km) downstream from Mill Creek, and 1.7 mi (2.7 km) south of Healdsburg.

DRAINAGE AREA.--217 m² (562 km²).

PERIOD OF RECORD.--November 1980 to September 1981 (low flow only).

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15.2 m) from topographic map.

REMARKS.--Records poor. No records computed above 200 ft³/s (5.66 m³/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	36	---		---	60	18			
2			0	35	---		---	57	16			
3			0	36	---		---	55	14			
4			0	35	---		---	53	14			
5			0	36	---		---	51	11			
6			0	38	---		---	49	9.8			
7			188	37	---		---	49	9.8			
8			114	36	---		---	46	11			
9			77	36	---		191	43	12			
10			61	36	174		178	41	19			
11			56	37	155		164	39	29			
12			51	36	137		154	36	30			
13			48	35	---		147	34	31			
14			43	35	---		138	33	32			
15			40	36	---		132	32	24			
16			37	35	---		123	30	26			
17			36	66	---		116	30	26			
18			34	163	---		106	37	25			
19			33	---	---		118	34	21			
20			32	---	---		115	36	19			
21			36	---	---		102	35	16			
22			60	---	---		92	32	11			
23			71	---	---		85	30	5.3			
24			62	---	---		80	29	0			
25			55	---	---		75	27	0			
26			49	---	---		72	26	0			
27			45	---	---		69	24	0			
28			42	---	---		66	23	0			
29			40	---	---		64	22	0			
30			39	---	---		62	20	0			
31		---	36	---	---		---	19	---			---
TOTAL	0	0	1385	---	---		---	1132	429.9	0	0	0
MEAN	0	0	44.7	---	---		---	36.5	14.3	0	0	0
MAX	0	0	188	---	---		---	60	32	0	0	0
MIN	0	0	0	---	---		---	19	0	0	0	0
AC-FT	0	0	2750	---	---		---	2250	853	0	0	0

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA
(National stream-quality accounting network station)

LOCATION.--Lat 38°30'31", long 122°55'36", in NE¼SE¼ sec.26, T.8 N., R.10 W., Sonoma County, Hydrologic Unit 18010110, on right bank at downstream side of Hacienda bridge, 0.1 mi (0.2 km) upstream from Hobson Creek, and 3.8 mi (6.1 km) east of Guerneville.

DRAINAGE AREA.--1,338 mi² (3,465 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1954, published as "at Guerneville."

REVISED RECORDS.--WSP 1395: Drainage area at former site. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 20.14 ft (6.139 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1954, nonrecording gage at bridge 5.3 mi (8.5 km) downstream at datum 8.58 ft (2.615 m) lower. Oct. 1, 1954, to Oct. 23, 1974, at site 0.7 mi (1.1 km) downstream at datum 2.75 ft (0.838 m) lower. Supplementary water-stage recorder 2.1 mi (3.4 km) downstream used during periods of low flow 1948-54.

REMARKS.--Records good. Many diversions above station for irrigation of about 29,000 acres (117 km²). Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations), since November 1958 by storage in Lake Mendocino (station 11461800) 77 mi (124 km²) upstream, and by diversion at Wohler pumping plant beginning in May 1959.

AVERAGE DISCHARGE.--42 years, 2,255 ft³/s (63.86 m³/s), 1,634,000 acre-ft/yr (2.01 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93,400 ft³/s (2,650 m³/s) Dec. 23, 1964, gage height, 49.6 ft (15.12 m) site and datum then in use, from floodmarks; maximum gage height, 49.7 ft (15.15 m) Dec. 23, 1955, site and datum then in use, from floodmarks; minimum daily discharge, 0.75 ft³/s (0.021 m³/s) May 6, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 23,000 ft³/s (651 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 4	0445	23,300 660	22.67 6.910
Jan. 28	1000	*35,200 997	27.95 8.519

Minimum daily discharge, 79 ft³/s (2.24 m³/s) June 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	177	168	419	7290	3200	2230	374	161	191	156	134
2	125	180	201	413	5400	2760	2020	359	155	183	163	134
3	129	176	9560	424	4450	2460	1730	343	145	182	164	135
4	142	173	16300	459	3720	2920	1550	327	138	183	159	135
5	158	172	5130	455	2950	3530	1400	312	122	186	161	135
6	169	173	2600	433	2590	2860	1280	305	115	192	157	134
7	175	174	1680	417	2310	2490	1170	282	110	193	149	137
8	173	182	1230	409	2080	2250	1060	265	109	190	143	148
9	165	186	929	437	1930	2070	965	258	109	183	143	149
10	165	186	775	442	1760	1900	893	242	108	180	145	141
11	176	185	669	399	1670	1760	825	230	103	181	150	138
12	179	175	606	384	1570	1660	772	220	103	186	153	132
13	194	177	647	375	2620	1600	725	202	107	192	151	133
14	192	171	603	365	10000	1510	693	193	117	190	153	192
15	192	175	575	327	6670	1720	637	200	120	180	158	195
16	191	178	555	307	4490	2440	588	200	118	174	160	137
17	187	179	537	451	3700	2040	566	200	111	166	160	137
18	187	177	523	637	3250	1840	568	200	105	161	160	135
19	188	186	510	1160	2910	1980	586	205	100	161	162	135
20	187	200	503	1560	2650	2290	611	230	94	159	164	135
21	184	206	530	1560	2300	5500	583	239	89	152	163	134
22	181	208	683	7620	1980	5940	532	235	85	145	161	133
23	172	201	793	15700	1810	4350	512	223	80	138	160	133
24	266	198	751	9080	1930	3360	490	214	79	135	161	124
25	209	195	629	5400	2850	3550	479	209	85	134	160	140
26	198	188	579	4290	3280	4780	478	203	103	140	155	150
27	191	178	552	20200	3610	4570	458	200	111	148	148	157
28	183	174	534	33700	3130	3670	438	193	124	154	140	166
29	179	168	523	30100	---	3130	416	191	143	156	134	168
30	177	167	507	16900	---	2740	392	184	176	154	133	165
31	177	---	450	10700	---	2430	---	171	---	153	134	---
TOTAL	5511	5465	50832	165523	94900	89300	25647	7409	3425	5222	4760	4321
MEAN	178	182	1640	5339	3389	2881	855	239	114	168	154	144
MAX	266	208	16300	33700	10000	5940	2230	374	176	193	164	195
MIN	120	167	168	307	1570	1510	392	171	79	134	133	124
AC-FT	10930	10840	100800	328300	188200	177100	50870	14700	6790	10360	9440	8570
CAL YR 1980	TOTAL	968793	MEAN	2647	MAX	55300	MIN	117	AC-FT	1922000		
WTR YR 1981	TOTAL	462315	MEAN	1267	MAX	33700	MIN	79	AC-FT	917000		

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 1964-81 (discontinued).

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 September 1981.

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 from January 1964 to September 1981.

REMARKS.--Differences between recorder values before adjustment and field measurement values exceeded

±10 percent micromhos for specific conductance and ±1.0°C for water temperature, at times during the year.

COOPERATION.--The letter "A" following a date indicates chemical-quality data furnished by California Department of Water Resources and "B" following a date indicates chemical-quality samples were collected by California Regional Water Quality Control Board, North Coast Region. Specific conductance data also furnished by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 605 micromhos Feb. 19, 20, 1977; minimum recorded, 57 micromhos Nov. 4, 1973.

WATER TEMPERATURES: Maximum recorded, 29.5°C June 26, 1973; minimum recorded, 4.5°C Dec. 15, 1967, Jan. 12, 1968.

SEDIMENT CONCENTRATIONS (water years 1970-81): Maximum daily mean, 2,350 mg/L Jan. 16, 1974; minimum daily mean, 2 mg/L Dec. 12, 27, 1978; Nov. 15, 16, 25, 26, 1980.

SEDIMENT DISCHARGE (water years 1970-81): 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 May 18, June 9, 10; minimum recorded, 100 micromhos Jan. 27, 28.

WATER TEMPERATURES: Maximum recorded, 26.5°C June 4-8; minimum recorded, 8.0°C Dec. 14.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 842 mg/L Jan. 28; minimum daily mean, 2 mg/L Nov. 15, 16, 25, 26.

SEDIMENT DISCHARGE: Maximum daily, 76,600 tons (69,500 metric tons) Jan. 28; minimum daily, 0.95 ton (0.86 metric ton) Nov. 15.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
15...	1315	195	251	8.2	17.0	765	.45	9.1	93	K15	K14
NOV											
19...	1155	188	265	8.0	11.5	770	1.0	10.6	95	K8	14
DEC											
09...	1440	902	271	7.8	9.0	770	23	9.9	85	310	130
JAN											
06...	1155	434	306	7.9	11.0	770	2.5	8.7	78	84	--
FEB											
10...	1030	1770	259	7.6	12.0	765	22	9.4	87	74	35
MAR											
10...	1000	1920	239	7.9	13.0	765	8.6	9.6	91	47	K6
APR											
14...	1225	703	287	8.0	16.5	765	2.3	10.0	101	K21	K7
MAY											
20...	1145	179	318	7.7	19.5	765	2.5	9.0	97	46	K7
JUN											
18...	1215	104	285	8.4	25.0	765	3.5	9.0	108	<3	K6
JUL											
21...	1340	149	247	8.1	25.5	765	2.5	8.0	98	K10	K9
AUG											
27...	1145	148	243	8.1	24.0	760	2.1	8.2	98	16	K2
SEP											
14...	1130	137	250	7.5	20.5	765	2.0	9.0	100	10	K9

See footnotes at end of table

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT										
15...	120	0	25	14	9.7	15	.4	1.3	110	11
NOV										
19...	120	0	25	14	9.8	15	.4	1.2	120	15
DEC										
09...	110	8	22	13	13	20	.5	2.8	100	21
JAN										
06...	130	7	26	15	16	21	.6	2.0	120	22
FEB										
10...	110	--	23	13	11	18	.5	1.5	110	19
MAR										
10...	120	20	25	13	10	16	.4	1.4	100	19
APR										
14...	130	--	26	16	12	16	.5	1.6	130	20
MAY										
20...	150	--	29	18	13	16	.5	1.6	97	21
JUN										
18...	140	--	30	16	12	16	.4	1.3	140	22
JUL										
21...	120	--	25	13	9.2	15	.4	1.1	98	11
AUG										
27...	120	--	28	13	9.0	14	.4	1.4	110	8.0
SEP										
14...	120	--	24	14	9.6	15	.4	1.1	110	<5.0

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT										
15...	6.7	.1	11	169	151	.23	89.0	.00	.00	.03
NOV										
19...	7.0	.1	10	158	154	.21	80.2	.02	.01	.08
DEC										
09...	12	.2	15	176	170	.24	429	1.0	1.1	.28
JAN										
06...	17	.1	15	187	190	.25	219	.96	.96	.38
FEB										
10...	8.7	.1	17	164	158	.22	784	1.1	1.1	.13
MAR										
10...	7.5	.1	17	146	153	.20	757	.55	.60	.05
APR										
14...	8.4	.1	15	174	173	.24	330	.40	.37	.05
MAY										
20...	10	.1	13	200	185	.27	96.7	.21	.23	.10
JUN										
18...	7.9	.1	13	180	181	.24	50.5	.06	.01	.20
JUL										
21...	13	.1	8.9	148	148	.20	59.5	.09	.09	.06
AUG										
27...	19	.1	11	144	156	.20	57.5	.14	.11	.11
SEP										
14...	5.6	.1	12	153	--	.21	56.6	.11	<.10	.08

See footnotes at end of table.

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS- (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
OCT 15...	.06	1.5	.52	.58	1.5	.04	.03	4.8	--	--
NOV 19...	.10	.37	.34	.44	.47	.04	.03	--	2.0	--
DEC 09...	.31	1.0	.59	.90	2.3	.47	.48	6.1	--	--
JAN 06...	.39	.72	.81	1.2	2.1	.43	.40	.4	--	--
FEB 10...	.13	.69	.59	.72	1.9	.24	.20	--	5.5	--
MAR 10...	.05	--	1.1	1.1	--	.13	.11	5.8	--	--
APR 14...	.07	.50	.43	.50	.95	.11	.12	5.7	--	--
MAY 20...	.08	1.1	.42	.50	1.4	.08	.04	--	12	.4
JUN 18...	.07	.59	.59	.66	.85	.09	.08	2.5	--	--
JUL 21...	.08	.69	.20	.28	.84	.05	.06	2.2	--	--
AUG 27...	.13	.43	.40	.53	.68	.01	.01	--	2.1	<.1
SEP 14...	.06	1.4	.47	.53	1.6	.31	.02	1.8	--	--

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 19...	1155	1	1	100	80	0	1	0	10	2
FEB 10...	1030	1	1	100	70	1	<1	10	0	3
MAY 20...	1145	1	1	10	90	0	<1	10	0	3
AUG 27...	1145	2	1	100	90	1	<1	0	0	1

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 19...	<3	5	2	200	10	2	3	30	10	.0
FEB 10...	<3	7	2	1700	40	36	2	60	20	.1
MAY 20...	<3	5	2	250	<10	3	1	50	10	.1
AUG 27...	<3	5	2	300	23	4	0	40	15	.1

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 19...	.0	7	8	0	0	0	0	40	5
FEB 10...	.2	14	0	0	0	1	0	20	4
MAY 20...	.2	4	1	0	0	0	0	30	4
AUG 27...	.0	5	7	0	0	0	0	20	20

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

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE TIME	JAN 6,81 1155	MAR 10,81 1000	MAY 20,81 1145	JUN 18,81 1215
TOTAL CELLS/ML	2200	460	4400	9800
DIVERSITY: DIVISION	1.7	1.8	1.6	1.7
..CLASS	1.7	1.8	1.6	1.7
..ORDER	2.7	2.3	2.4	2.2
...FAMILY	3.1	2.4	2.7	2.7
....GENUS	3.1	2.4	3.3	3.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...ACHNANTHALES								
....ACHNANTHACEAE								
....ACHNANTHES	15	1	--	-	--	-	--	-
....COCONEIS	--	-	--	-	--	-	--	-
..BACILLARIALES								
...NITZSCHIAEAE								
....NITZSCHIA	250	11	26	6	50	1	550	6
...EUPODISCALES								
....COSCINODISCAEAE								
....CYCLOTELLA	350#	16	26	6	1200#	28	2700#	27
....MELOSIRA	--	-	--	-	50	1	400	4
..FRAGILARIALES								
...FRAGILARIAEAE								
....DIATOMA	15	1	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	--	-
....SYNEDRA	61	3	--	-	130	3	50	1
..NAVICULALES								
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	50	1
....CYMBELLA	31	1	--	-	--	-	--	-
...GOMPHONEMACEAE								
....GOMPHONEMA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	150	7	26	6	75	2	--	-
....PINNULARIA	--	-	--	-	--	-	--	-
..SURIARELLALES								
...SURIARELLACEAE								
....CYMATOPLEURA	15	1	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...DICTYOSPHAERIAEAE								
....DICTYOSPHAERIUM	280	13	64	14	--	-	--	-
...MICRACTINIAEAE								
....MICRACTINIUM	--	-	--	-	25	1	550	6
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	200	5	350	4
....KIRCHNERIELLA	77	4	--	-	--	-	--	-
....OOCYSTIS	--	-	13	3	--	-	100	1
....SELENASTRUM	--	-	--	-	50	1	--	-
....TREUBARIA	--	-	--	-	50	1	50	1
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	200	5	400	4
....COELASTRUM	--	-	--	-	400	9	--	-
....SCENEDESMUS	120	6	--	-	630	14	2300#	24
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	120	6	52	11	400	9	100	1
...PHACOTACEAE								
....PTEROMONAS	--	-	--	-	--	-	--	-
CHRYSTOPHYTA								
..CHRYSTOPHYCEAE								
...OCHROMONADALES								
...OCHROMONADACEAE								
....OCHROMONAS	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	15	1	--	-	50	1	50	1
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	100	1

See footnotes at end of table.

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE TIME	JAN 6,81 1155		MAR 10,81 1000		MAY 20,81 1145		JUN 18,81 1215	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	630#	29	220#	47	280	6	550	6
....COCCOCHLORIS	15	1	--	-	25	1	--	-
...OSCILLATORIALES								
...OSCILLATORIA								
....OSCILLATORIA	--	-	--	-	550	13	1300	13
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	39	8	--	-	100	1
....PHACUS	15	1	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	50	1
....SELENASTRUM	--	-	--	-	--	-		
....TREUBARIA	--	-	--	-	--	-		
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-		
....COELASTRUM	--	-	--	-	--	-		
....SCENEDESMUS	890#	31	610#	44	56	13		
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	67	2	--	-	56	13		
...PHACOTACEAE								
....PTEROMONAS	17	1	--	-	--	-		
CHRYSOPHYTA								
..CHRYSOPHYCEAE								
...OCHROMONADALES								
...OCHROMONADACEAE								
....OCHROMONAS	17	1	--	-	--	-		
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-		
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-		

See footnotes at end of table.

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE TIME	JUL 21,81 1340	AUG 27,81 1145	SEP 14,81 1130
TOTAL CELLS/ML	2900	1400	450
DIVERSITY: DIVISION	1.0	1.0	1.3
..CLASS	1.0	1.0	1.3
...ORDER	1.7	1.8	1.7
...FAMILY	2.7	2.0	1.7
...GENUS	3.1	2.3	1.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
..BACILLARIOPHYCEAE						
...ACHNANTHALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
....COCONEIS	17	1	--	-	--	-
..BACILLARIALES						
...NITZSCHIAEAE						
....NITZSCHIA	170	6	270#	20	--	-
..EUPODISCALES						
...COSCINODISCAEAE						
....CYCLOTELLA	100	3	--	-	42	9
....MELOSIRA	--	-	--	-	--	-
..FRAGILARIALES						
...FRAGILARIAEAE						
....DIATOMA	--	-	--	-	--	-
....FRAGILARIA	270	9	110	8	--	-
....SYNEDRA	350	12	41	3	--	-
..NAVICULALES						
...CYMBELLACEAE						
....AMPHORA	--	-	--	-	14	3
....CYMBELLA	34	1	55	4	--	-
...GOMPHONEMACEAE						
....GOMPHONEMA	17	1	--	-	--	-
...NAVICULACEAE						
....NAVICULA	67	2	220#	16	--	-
....PINNULARIA	--	-	82	6	--	-
..SURIRELLALES						
...SURIRELLACEAE						
....CYMATOPLEURA	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....DICTYOSPHAERIACEAE						
....DICTYOSPHAERIUM	400	14	--	-	--	-
...MICRACTINIACEAE						
....MICRACTINIUM	--	-	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	340	12	--	-	--	-
....KIRCHNERIELLA	50	2	--	-	--	-
....OOCYSTIS	84	3	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
....ANACYSTIS	--	-	--	-	280#	63
....COCCOCHLORIS	--	-	--	-	--	-
..OSCILLATORIALES						
...OSCILLATORIAEAE						
....OSCILLATORIA	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE						
...EUGLENALES						
....EUGLENACEAE						
....EUGLENA	--	-	--	-	--	-
....PHACUS	--	-	--	-	--	-
....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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	270	260	265	275	270	270	290	285	285	305	300	305
2	260	260	260	275	270	275	285	265	280	310	305	310
3	260	260	260	275	275	275	280	110	175	310	310	310
4	265	260	260	275	275	275	145	115	125	315	310	310
5	265	260	260	275	275	275	200	145	165	315	310	315
6	260	255	255	275	275	275	245	200	230	315	310	315
7	255	250	255	275	275	275	270	245	260	310	310	310
8	255	250	255	275	275	275	285	270	280	310	310	310
9	260	255	255	280	275	280	290	285	285	310	300	305
10	260	255	255	280	275	280	295	290	290	300	295	300
11	320	260	270	280	275	275	300	295	300	300	295	295
12	320	260	280	280	275	275	305	300	300	305	300	305
13	290	265	280	280	275	275	300	290	295	310	305	310
14	275	260	265	275	270	270	290	285	285	310	305	310
15	260	260	260	270	270	270	290	285	285	310	305	305
16	265	260	260	270	270	270	290	285	285	320	310	315
17	260	260	260	275	270	270	285	285	285	330	290	315
18	260	260	260	285	275	280	285	285	285	295	280	285
19	260	260	260	280	270	275	285	285	285	300	215	270
20	260	260	260	275	270	270	285	285	285	245	230	235
21	260	260	260	270	265	265	295	280	285	260	245	255
22	260	260	260	265	260	265	315	260	285	255	120	200
23	260	260	260	275	265	270	280	265	275	150	120	135
24	265	260	260	280	275	275	275	265	270	180	150	165
25	270	265	270	280	270	275	285	275	280	200	180	190
26	270	270	270	285	280	280	290	285	290	215	200	210
27	270	270	270	280	275	280	290	290	290	205	100	130
28	270	270	270	285	280	280	290	290	290	120	100	110
29	270	270	270	285	285	285	290	290	290	130	115	120
30	270	270	270	290	285	285	290	290	290	165	130	150
31	270	270	270	---	---	---	300	290	295	180	165	170
MONTH	320	250	263	290	260	275	315	110	271	330	100	254
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	200	180	190	225	210	215	245	240	240	310	305	305
2	210	200	205	235	225	230	250	245	250	310	305	310
3	215	210	215	245	235	240	265	255	260	310	305	310
4	235	215	225	245	215	230	270	265	265	310	305	310
5	250	235	245	215	205	210	275	270	270	310	310	310
6	260	250	255	230	210	220	280	275	275	310	310	310
7	260	260	260	240	230	235	280	280	280	310	310	310
8	270	260	265	245	240	240	285	280	280	310	310	310
9	270	270	270	250	245	250	285	285	285	315	310	310
10	275	270	275	255	250	250	285	285	285	315	315	315
11	275	275	275	260	255	255	290	285	285	320	315	320
12	275	275	275	265	260	260	290	290	290	320	320	320
13	275	180	245	265	265	265	300	290	295	325	320	320
14	185	140	150	270	265	265	300	295	300	325	320	325
15	190	145	175	270	220	250	305	300	300	330	320	325
16	210	190	200	235	215	225	315	300	305	325	320	325
17	220	210	215	260	235	250	315	305	310	320	315	320
18	225	220	220	260	250	255	305	305	305	345	320	335
19	235	225	230	255	250	255	305	300	305	330	325	325
20	235	235	235	250	215	240	300	295	300	330	305	315
21	250	235	245	215	160	180	295	295	295	310	305	310
22	260	250	255	195	180	190	300	295	295	315	305	310
23	265	260	260	210	200	205	300	295	300	315	305	310
24	265	250	260	225	210	220	300	300	300	320	305	315
25	250	215	230	225	200	210	300	300	300	320	320	320
26	220	190	210	205	195	200	300	300	300	320	315	315
27	220	190	205	205	190	195	305	300	300	320	320	320
28	225	215	220	220	205	210	305	300	305	325	320	325
29	---	---	---	230	220	225	310	305	305	335	330	330
30	---	---	---	235	230	230	310	305	310	340	330	335
31	---	---	---	240	235	240	---	---	---	330	320	325
MONTH	275	140	233	270	160	230	315	240	290	345	305	318

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	325	320	325	275	270	270	260	255	255	265	260	260
2	325	325	325	270	265	270	260	255	260	265	260	260
3	330	325	325	265	265	265	260	260	260	265	260	260
4	335	325	330	265	265	265	260	260	260	265	260	260
5	330	330	330	265	265	265	260	255	260	265	260	260
6	335	330	335	265	260	260	260	255	260	265	265	265
7	340	330	335	265	260	260	260	255	255	265	265	265
8	340	335	340	260	260	260	260	255	255	265	260	260
9	345	335	340	260	260	260	260	255	260	265	260	260
10	345	325	335	260	260	260	260	260	260	265	265	260
11	335	330	330	260	260	260	260	260	260	270	260	265
12	340	325	335	260	260	260	260	260	260	270	270	270
13	330	320	325	260	260	260	260	260	260	270	270	270
14	320	315	320	260	255	260	260	260	260	270	260	265
15	320	310	315	255	255	255	265	260	265	265	260	260
16	315	310	315	255	255	255	260	255	260	280	260	270
17	315	310	310	255	250	255	260	255	255	280	275	275
18	310	305	310	255	250	255	255	255	255	275	270	275
19	310	305	310	260	255	255	255	255	255	270	270	270
20	310	305	310	260	255	260	255	255	255	270	270	270
21	315	305	310	265	260	265	255	255	255	270	270	270
22	315	310	310	270	260	265	260	255	255	270	270	270
23	320	310	315	265	265	265	260	255	260	270	270	270
24	320	310	315	270	265	265	260	255	255	275	270	270
25	320	315	315	270	270	270	260	260	260	270	265	265
26	315	310	310	270	270	270	260	255	255	265	265	265
27	305	295	300	270	270	270	260	255	255	265	265	265
28	295	290	290	270	265	270	260	260	260	265	260	260
29	290	280	285	265	265	265	260	260	260	265	260	260
30	280	275	280	265	255	260	260	260	260	265	265	265
31	---	---	---	255	255	255	260	260	260	---	---	---
MONTH	345	275	318	275	250	262	265	255	258	280	260	265
YEAR	345	100	270									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.0	19.5	14.0	13.5	11.5	10.5	11.0	11.0	10.0	9.0	12.0	10.5
2	24.0	20.0	16.0	14.0	11.5	10.5	10.5	10.5	11.0	9.5	13.0	11.0
3	24.5	20.5	17.5	16.0	12.0	11.5	11.0	10.5	11.0	9.5	13.0	12.0
4	24.5	21.0	17.5	16.5	12.0	11.0	12.0	11.0	11.0	10.0	12.5	11.5
5	24.0	21.0	17.0	16.0	11.0	10.0	12.0	11.0	11.0	10.5	12.0	10.0
6	23.5	20.5	16.5	15.5	10.0	9.5	11.0	10.5	11.0	10.0	12.5	11.0
7	23.0	19.5	17.0	16.0	9.5	9.0	11.0	10.0	11.0	10.5	12.0	11.5
8	23.5	19.0	16.5	15.5	9.0	8.5	10.5	10.0	11.0	11.0	14.0	12.0
9	23.0	19.0	15.5	15.0	9.5	8.5	10.5	10.0	12.5	10.5	14.5	12.5
10	22.0	19.5	15.0	14.0	9.5	8.5	10.0	9.5	12.5	12.0	14.5	13.0
11	20.0	18.5	14.0	13.0	9.0	8.5	10.0	9.0	13.0	12.5	15.0	13.5
12	20.0	17.5	13.0	12.0	9.0	8.5	9.5	9.0	14.0	12.5	14.5	13.0
13	20.0	17.5	12.5	11.5	9.0	8.5	10.5	9.0	13.5	13.0	13.5	12.0
14	19.0	17.0	12.5	11.0	9.0	8.0	10.5	9.5	13.5	12.5	13.5	12.0
15	19.0	15.5	12.5	11.0	9.5	8.5	11.5	10.0	13.5	12.5	13.5	11.5
16	18.5	15.0	12.0	11.0	10.0	9.0	12.0	11.5	13.5	12.0	13.5	11.0
17	18.5	15.0	13.0	11.5	10.5	9.5	12.0	11.5	13.5	12.0	13.5	12.5
18	18.5	15.0	13.0	11.5	11.0	10.5	12.0	11.5	14.0	12.5	13.5	12.0
19	18.5	15.5	12.5	11.5	11.5	11.0	12.0	11.5	14.0	13.0	13.0	12.0
20	19.0	15.5	12.0	11.5	12.0	11.0	12.0	12.0	13.0	11.5	12.5	11.5
21	19.0	15.5	12.0	11.0	11.5	11.5	12.5	12.0	13.0	11.0	13.0	11.0
22	19.5	16.0	13.0	12.0	12.5	11.5	12.5	12.0	13.5	12.0	14.0	12.5
23	19.5	16.0	14.5	13.0	12.5	11.5	12.5	12.0	13.0	12.0	14.0	12.0
24	18.5	17.0	13.5	12.0	11.5	10.5	12.0	11.0	12.0	11.5	14.0	12.5
25	17.5	16.5	12.0	11.0	12.0	11.0	11.0	10.0	11.0	10.0	14.5	13.0
26	16.5	15.0	11.0	10.5	12.0	11.5	10.5	10.0	11.0	10.0	14.0	12.5
27	16.5	15.0	11.0	10.0	12.5	11.5	10.5	9.5	12.0	10.0	14.0	11.5
28	16.0	15.0	11.0	10.0	12.5	11.5	10.5	10.0	12.0	11.0	15.5	12.5
29	15.5	14.5	11.5	10.5	12.5	11.5	10.5	10.0	---	---	15.5	14.0
30	15.0	14.0	12.5	11.5	12.0	11.5	10.0	9.5	---	---	14.5	13.0
31	14.5	13.5	---	---	11.5	11.5	10.0	9.5	---	---	14.5	13.5
MONTH	24.5	13.5	17.5	10.0	12.5	8.0	12.5	9.0	14.0	9.0	15.5	10.0

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	13.5	---	---	24.5	21.0	---	---	---	---	25.5	22.0
2	15.0	13.0	---	---	24.5	20.5	---	---	---	---	25.0	21.5
3	15.5	13.0	---	---	26.0	21.0	---	---	---	---	24.0	21.5
4	16.5	14.0	---	---	26.5	22.0	---	---	---	---	24.0	21.0
5	17.5	14.5	---	---	26.5	23.0	---	---	---	---	24.0	20.5
6	17.5	15.0	---	---	26.5	23.5	---	---	---	---	23.5	21.0
7	17.5	15.0	---	---	26.5	23.5	---	---	---	---	23.5	21.0
8	17.0	14.5	---	---	26.5	23.5	---	---	---	---	24.0	21.0
9	17.5	14.0	---	---	26.0	22.5	---	---	---	---	24.0	20.5
10	17.5	14.5	---	---	---	---	---	---	---	---	24.0	20.0
11	17.0	14.0	---	---	---	---	---	---	---	---	23.5	20.5
12	17.5	14.5	---	---	---	---	---	---	---	---	23.0	20.5
13	18.0	14.5	---	---	---	---	---	---	---	---	22.5	20.5
14	18.5	15.5	---	---	---	---	---	---	---	---	22.5	20.5
15	18.0	16.5	---	---	---	---	---	---	---	---	23.0	20.5
16	18.0	16.0	---	---	---	---	---	---	---	---	23.0	20.0
17	18.5	17.0	---	---	---	---	---	---	---	---	23.0	20.0
18	18.5	16.0	---	---	---	---	---	---	---	---	23.5	20.0
19	16.0	14.5	---	---	---	---	---	---	---	---	23.5	21.0
20	16.5	14.5	---	---	---	---	---	---	---	---	23.5	20.5
21	18.5	16.0	22.0	17.0	---	---	---	---	---	---	22.5	20.0
22	19.5	18.5	23.0	18.5	---	---	---	---	---	---	22.0	19.0
23	21.0	19.5	24.5	19.5	---	---	---	---	---	---	20.5	18.5
24	20.5	18.5	24.5	20.5	---	---	---	---	---	---	19.0	18.0
25	---	---	24.5	21.0	---	---	---	---	---	---	20.0	18.0
26	---	---	24.5	20.5	---	---	---	---	---	---	20.0	17.5
27	---	---	25.0	20.5	---	---	---	---	---	---	20.0	19.5
28	---	---	25.0	20.0	---	---	---	---	26.0	22.0	21.0	19.0
29	---	---	24.5	20.5	---	---	---	---	26.0	22.0	21.0	18.0
30	---	---	25.0	20.0	---	---	---	---	25.5	22.0	20.5	17.5
31	---	---	25.5	20.5	---	---	---	---	25.5	22.0	---	---
MONTH	21.0	13.0	---	---	---	---	---	---	---	---	25.5	17.5
YEAR	26.5	8.0										

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	120	6	1.9	177	3	1.4	168	3	1.4
2	125	6	2.0	180	5	2.4	201	8	4.3
3	129	7	2.4	176	7	3.3	9560	265	11700
4	142	7	2.7	173	5	2.3	16300	509	24100
5	158	7	3.0	172	4	1.9	5130	259	3750
6	169	7	3.2	173	4	1.9	2600	160	1120
7	175	7	3.3	174	4	1.9	1680	107	485
8	173	6	2.8	182	4	2.0	1230	66	219
9	165	6	2.7	186	4	2.0	929	33	83
10	165	6	2.7	186	4	2.0	775	24	50
11	176	5	2.4	185	3	1.5	669	22	40
12	179	5	2.4	175	3	1.4	606	20	33
13	194	5	2.6	177	3	1.4	647	22	38
14	192	4	2.1	171	3	1.4	603	20	33
15	192	4	2.1	175	2	.95	575	18	28
16	191	5	2.6	178	2	.96	555	16	24
17	187	3	1.5	179	4	1.9	537	12	17
18	187	3	1.5	177	3	1.4	523	9	13
19	188	7	3.6	186	16	8.0	510	7	9.6
20	187	5	2.5	200	7	3.8	503	5	6.8
21	184	5	2.5	206	6	3.3	530	7	10
22	181	4	2.0	208	5	2.8	683	17	31
23	172	5	2.3	201	5	2.7	793	20	43
24	266	36	43	198	3	1.6	751	10	20
25	209	43	24	195	2	1.1	629	7	12
26	198	18	9.6	188	2	1.0	579	7	11
27	191	8	4.1	178	5	2.4	552	7	10
28	183	7	3.5	174	4	1.9	534	8	12
29	179	7	3.4	168	3	1.4	523	8	11
30	177	4	1.9	167	3	1.4	507	8	11
31	177	3	1.4	---	---	---	450	8	9.7
TOTAL	5511	---	147.7	5465	---	63.41	50832	---	41935.8

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	419	8	9.1	7290	153	3010	3200	36	311
2	413	7	7.8	5400	112	1630	2760	25	186
3	424	7	8.0	4450	88	1060	2460	20	133
4	459	10	12	3720	73	733	2920	40	344
5	455	9	11	2950	59	470	3530	59	562
6	433	9	11	2590	52	364	2860	41	317
7	417	6	6.8	2310	46	287	2490	31	208
8	409	6	6.6	2080	42	236	2250	26	158
9	437	6	7.1	1930	39	203	2070	23	129
10	442	5	6.0	1760	36	171	1900	21	108
11	399	5	5.4	1670	34	153	1760	20	95
12	384	5	5.2	1570	33	140	1660	19	85
13	375	4	4.1	2620	51	425	1600	18	78
14	365	4	3.9	10000	194	5500	1510	18	73
15	327	4	3.5	6670	140	2520	1720	22	105
16	307	4	3.3	4490	95	1150	2440	24	158
17	451	11	16	3700	76	759	2040	20	110
18	637	11	19	3250	65	570	1840	19	94
19	1160	29	118	2910	60	471	1980	18	96
20	1560	29	122	2650	56	401	2290	20	124
21	1560	20	84	2300	54	335	5500	103	1620
22	7620	184	7270	1980	50	267	5940	75	1200
23	15700	388	17400	1810	45	220	4350	41	482
24	9080	213	5310	1930	44	229	3360	24	218
25	5400	142	2070	2850	54	416	3550	47	450
26	4290	112	1300	3280	55	487	4780	65	839
27	20200	509	34100	3610	50	487	4570	44	543
28	33700	842	76600	3130	41	346	3670	30	297
29	30100	690	56100	---	---	---	3130	21	177
30	16900	399	18200	---	---	---	2740	18	133
31	10700	248	7160	---	---	---	2430	17	112
TOTAL	165523	---	225979.8	94900	---	23040	89300	---	9545
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	2230	16	96	374	11	11	161	9	3.9
2	2020	15	82	359	10	9.7	155	9	3.8
3	1730	15	70	343	10	9.3	145	9	3.5
4	1550	14	59	327	10	8.8	138	9	3.4
5	1400	14	53	312	10	8.4	122	9	3.0
6	1280	13	45	305	10	8.2	115	9	2.8
7	1170	13	41	282	10	7.6	110	9	2.7
8	1060	12	34	265	10	7.2	109	9	2.6
9	965	12	31	258	10	7.0	109	9	2.6
10	893	12	29	242	10	6.5	108	9	2.6
11	825	11	25	230	10	6.2	103	8	2.2
12	772	11	23	220	10	5.9	103	8	2.2
13	725	11	22	202	10	5.5	107	8	2.3
14	693	11	21	193	10	5.2	117	9	2.8
15	637	11	19	200	10	5.4	120	9	2.9
16	588	11	17	200	10	5.4	118	9	2.9
17	566	11	17	200	10	5.4	111	9	2.7
18	568	11	17	200	10	5.4	105	9	2.6
19	586	11	17	205	10	5.5	100	9	2.4
20	611	11	18	230	10	6.2	94	9	2.3
21	583	11	17	239	10	6.5	89	9	2.2
22	532	11	16	235	10	6.3	85	9	2.1
23	512	11	15	223	10	6.0	80	9	1.9
24	490	11	15	214	10	5.8	79	9	1.9
25	479	11	14	209	10	5.6	85	9	2.1
26	478	11	14	203	10	5.5	103	8	2.2
27	458	11	14	200	10	5.4	111	8	2.4
28	438	11	13	193	10	5.2	124	8	2.7
29	416	11	12	191	10	5.2	143	8	3.1
30	392	11	12	184	10	5.0	176	8	3.8
31	---	---	---	171	10	4.6	---	---	---
TOTAL	25647	---	878	7409	---	200.9	3425	---	80.6

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	191	8	4.1	156	8	3.4	134	8	2.9
2	183	8	4.0	163	8	3.5	134	8	2.9
3	182	8	3.9	164	8	3.5	135	7	2.6
4	183	8	4.0	159	8	3.4	135	7	2.6
5	186	8	4.0	161	9	3.9	135	7	2.6
6	192	8	4.1	157	9	3.8	134	6	2.2
7	193	8	4.2	149	9	3.6	137	6	2.2
8	190	8	4.1	143	9	3.5	148	6	2.4
9	183	8	4.0	143	9	3.5	149	5	2.0
10	180	7	3.4	145	9	3.5	141	5	1.9
11	181	7	3.4	150	9	3.6	138	5	1.9
12	186	7	3.5	153	9	3.7	132	5	1.8
13	192	7	3.6	151	9	3.7	133	5	1.8
14	190	7	3.6	153	9	3.7	192	14	7.3
15	180	7	3.4	158	9	3.8	195	12	6.3
16	174	7	3.3	160	9	3.9	137	10	3.7
17	166	7	3.1	160	9	3.9	137	8	3.0
18	161	7	3.0	160	9	3.9	135	6	2.2
19	161	7	3.0	162	9	3.9	135	5	1.8
20	159	7	3.0	164	10	4.4	135	5	1.8
21	152	7	2.9	163	10	4.4	134	5	1.8
22	145	8	3.1	161	10	4.3	133	5	1.8
23	138	8	3.0	160	10	4.3	133	5	1.8
24	135	8	2.9	161	10	4.3	124	6	2.0
25	134	8	2.9	160	10	4.3	140	7	2.6
26	140	8	3.0	155	10	4.2	150	7	2.8
27	148	8	3.2	148	10	4.0	157	6	2.5
28	154	8	3.3	140	10	3.8	166	6	2.7
29	156	8	3.4	134	9	3.3	168	5	2.3
30	154	8	3.3	133	9	3.2	165	5	2.2
31	153	8	3.3	134	8	2.9	---	---	---
TOTAL	5222	---	107.0	4760	---	117.1	4321	---	78.4
YEAR 462315.0			302173.7						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.
						% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM
NOV									
19...	1140	11.5	188	23	12	79	--	--	--
DEC									
09...	1300	9.0	915	32	79	92	93	95	100
JAN									
06...	1215	11.0	432	9	10	90	--	--	--
FEB									
10...	1310	12.0	1750	36	170	93	100	--	--
MAR									
10...	1330	13.0	1890	23	117	86	--	--	--
APR									
14...	1230	16.5	703	10	19	77	--	--	--
MAY									
20...	1215	19.5	180	10	4.9	77	--	--	--
JUN									
18...	1155	25.0	104	9	2.5	86	--	--	--
JUL									
14...	1100	24.5	190	7	3.6	71	--	--	--
21...	1345	25.5	151	9	3.7	54	--	--	--
AUG									
27...	1100	24.0	148	10	4.0	56	--	--	--
SEP									
14...	1215	20.5	137	5	1.8	62	--	--	--

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PERIODIC DETERMINATION OF SUSPENDED-SEDIMENT CONCENTRATION
AND TURBIDITY, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SFDM- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)
OCT			
15...	1315	--	.45
15...	1500	4	1.0
16...	1830	6	1.0
17...	1800	3	1.0
18...	1830	26	1.0
19...	1800	8	1.0
20...	1435	4	1.0
21...	1735	5	1.0
22...	1725	3	1.0
23...	1820	6	2.0
24...	1625	110	5.0
27...	1900	5	1.0
28...	1735	7	2.0
29...	1600	7	1.0
30...	1620	4	1.0
31...	1500	3	1.0
NOV			
01...	1800	3	1.0
02...	1740	5	1.0
03...	1600	7	2.0
04...	1720	3	1.0
05...	1300	4	1.0
07...	1100	4	1.0
08...	1640	4	1.0
13...	1630	3	1.0
15...	1400	2	1.0
16...	1420	2	1.0
17...	1620	4	1.0
18...	1640	3	1.0
19...	1140	23	--
19...	1155	--	1.0
20...	1640	3	1.0
21...	1500	6	1.0
22...	1500	5	2.0
23...	1500	5	1.0
24...	1710	3	1.0
26...	1345	2	1.0
27...	1255	5	2.0
29...	1300	3	1.0
DEC			
09...	1300	32	18
09...	1440	--	23
JAN			
06...	1155	--	2.5
06...	1215	9	3.0
07...	1600	6	3.0
FEB			
10...	1030	--	22
10...	1250	36	15
10...	1310	36	--
MAR			
10...	1000	--	8.6
10...	1330	21	9.0
APR			
14...	1225	--	2.3
14...	1230	11	1.0
MAY			
20...	1145	--	2.5
20...	1215	10	2.0
JUN			
18...	1155	9	5.0
18...	1215	--	3.5
JUL			
14...	1100	7	3.0
21...	1340	--	2.5
21...	1345	9	3.0
AUG			
27...	1100	10	2.0
27...	1145	--	2.1
SEP			
14...	1130	--	2.0
14...	1215	5	2.0

11467600 GARCIA RIVER NEAR POINT ARENA, CA

LOCATION.--Lat 38°55'35", long 123°37'45", in SW¼SW¼ sec. 3, T.12 N., R.16 W., Mendocino County, Hydrologic Unit 18010108, on left bank 0.9 mi (1.4 km) downstream from North Fork, and 3.5 mi (5.6 km) northeast of town of Point Arena.

DRAINAGE AREA.--98.5 mi² (255.1 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1951-56, and annual maximum water years 1952-56, August 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 55.31 ft (16.858 m) National Geodetic Vertical Datum of 1929. July 17, 1951, to Jan. 31, 1956, crest-stage only, at site 15 ft (5 m) upstream at different datum.

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

AVERAGE DISCHARGE.--19 years, 312 ft³/s (8.836 m³/s), 226,000 acre-ft/yr (279 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,300 ft³/s (858 m³/s) Jan. 16, 1974, gage height, 17.41 ft (5.307 m), from rating curve extended above 9,600 ft³/s (272 m³/s) on basis of slope-area measurements at gage heights 15.11 ft (4.606 m) and 16.63 ft (5.069 m); minimum daily, 2.3 ft³/s (0.065 m³/s) Sept. 16, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft³/s (142 m³/s), and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 22	1345	*8030 227	10.64 3.243
Jan. 27	1230	6940 197	10.14 3.091

Minimum daily discharge, 8.0 ft³/s (0.227 m³/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	14	18	36	614	408	248	63	29	16	11	9.2
2	11	14	251	35	486	347	218	60	28	16	11	9.1
3	11	14	2640	41	405	301	197	59	27	15	11	9.0
4	11	14	1030	70	347	392	178	58	26	15	11	9.0
5	11	14	292	62	306	344	165	57	27	15	11	9.0
6	11	13	174	54	276	303	155	55	26	16	11	9.0
7	11	14	121	48	249	275	146	54	25	15	11	9.0
8	11	17	93	45	231	251	137	54	27	15	11	8.9
9	11	16	77	42	219	225	130	52	26	14	10	8.5
10	11	15	66	39	202	205	124	51	25	14	10	8.5
11	12	14	58	37	193	191	118	50	24	14	10	8.5
12	19	14	53	35	180	181	113	49	24	14	10	8.5
13	22	14	49	35	320	205	109	48	23	14	10	8.5
14	22	14	45	33	1120	180	105	47	22	14	10	8.5
15	24	14	42	32	569	187	100	47	22	14	10	8.5
16	20	14	39	52	450	214	97	47	22	13	10	8.5
17	17	14	37	283	392	186	94	47	21	13	10	8.5
18	16	14	36	297	330	180	93	102	20	13	10	8.5
19	15	14	35	316	294	187	94	73	19	13	10	8.5
20	15	14	35	360	253	214	92	58	19	13	10	8.5
21	15	14	69	323	228	516	86	47	19	13	10	8.5
22	15	21	132	6220	208	509	83	42	19	13	10	8.3
23	14	23	83	2490	196	409	80	39	19	12	10	8.0
24	14	19	68	1100	289	345	77	39	18	12	10	8.1
25	14	17	59	683	353	396	76	37	18	12	9.8	9.0
26	14	16	53	586	461	487	74	36	18	11	9.5	10
27	14	15	49	4180	534	449	71	34	17	11	9.5	17
28	14	15	46	4920	479	390	69	33	17	11	9.5	22
29	14	16	43	2910	---	337	67	31	17	11	9.5	16
30	14	17	40	1350	---	293	65	30	16	11	9.5	13
31	14	---	38	835	---	262	---	29	---	11	9.5	---
TOTAL	448	458	5871	27549	10184	9369	3461	1528	660	414	314.8	294.1
MEAN	14.5	15.3	189	889	364	302	115	49.3	22.0	13.4	10.2	9.80
MAX	24	23	2640	6220	1120	516	248	102	29	16	11	22
MIN	11	13	18	32	180	180	65	29	16	11	9.5	8.0
AC-FT	889	908	11650	54640	20200	18580	6860	3030	1310	821	624	583
CAL YR 1980	TOTAL	98162.0	MEAN 268	MAX 8830	MIN 10	AC-FT 194700						
WTR YR 1981	TOTAL	60550.9	MEAN 166	MAX 6220	MIN 8.0	AC-FT 120100						

11468000 NAVARRO RIVER NEAR NAVARRO, CA

LOCATION.--Lat 39°10'20", long 123°40'06", in SE¼ sec.7, T.15 N., R.16 W., Mendocino County, Hydrologic Unit 18010108, on right bank 2.9 mi (4.7 km) downstream from North Fork, 5.2 mi (8.4 km) upstream from mouth, and 6.8 mi (10.9 km) west of Navarro.

DRAINAGE AREA.--303 mi² (785 km²).

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.--31 years, 508 ft³/s (14.39 m³/s), 368,000 acre-ft/yr (454 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,500 ft³/s (1,830 m³/s) Dec. 22, 1955, gage height, 40.60 ft (12.375 m) site and datum then in use, from rating curve extended above 19,000 ft³/s (538 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.23 ft³/s (0.007 m³/s) July 13, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 38.2 ft (11.64 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,000 ft³/s (198 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 22	1800	8960	254	15.85	4.831
Jan. 28	0900	*10700	303	17.80	5.425

Minimum daily discharge, 2.6 ft³/s (0.074 m³/s) Aug. 18, Sept. 13-16.

DISCHARGE, IN CÚBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	14	24	46	1110	681	437	74	38	8.8	3.8	4.3
2	7.3	14	51	44	835	567	374	70	34	8.3	3.1	2.8
3	7.0	14	1080	44	673	471	327	65	29	7.9	3.2	2.8
4	6.2	14	1800	55	560	817	286	63	27	7.1	3.5	2.8
5	6.2	13	425	61	459	751	255	62	26	6.9	3.3	2.8
6	6.2	13	215	59	398	612	233	59	25	7.1	4.0	2.8
7	5.7	14	135	53	350	528	216	59	23	7.5	4.5	2.8
8	5.9	16	98	50	314	466	199	58	20	6.6	4.0	2.8
9	6.3	20	78	47	294	398	185	56	20	6.3	3.8	2.8
10	6.3	19	72	44	266	348	173	55	22	5.9	3.5	2.8
11	7.6	17	68	43	250	315	162	54	22	5.9	2.9	2.8
12	14	16	64	42	230	285	154	52	22	6.2	2.8	2.8
13	20	17	59	40	442	277	147	50	21	6.1	2.7	2.6
14	31	16	55	39	2170	254	141	50	18	5.4	2.7	2.6
15	34	16	51	38	1080	244	133	51	17	5.6	2.8	2.6
16	31	16	48	43	800	344	128	51	15	5.0	2.9	2.6
17	24	16	47	83	763	276	124	51	15	5.1	2.8	2.7
18	20	16	45	259	605	255	122	80	15	4.8	2.6	2.8
19	17	16	43	252	531	287	122	96	15	5.0	2.7	2.8
20	17	16	42	402	467	296	126	79	15	5.3	3.0	2.8
21	16	16	56	372	401	612	118	69	13	5.9	3.0	3.5
22	15	20	139	6150	353	785	111	60	13	5.5	2.9	3.8
23	15	23	116	3560	319	627	107	54	12	4.9	2.9	3.8
24	15	23	89	1770	553	527	100	51	11	4.8	3.1	3.9
25	14	21	76	1010	865	693	94	51	11	4.4	3.0	5.3
26	14	20	68	800	886	1330	93	51	11	4.2	3.1	8.6
27	15	18	62	4990	964	1130	89	48	9.5	4.4	3.3	19
28	15	18	59	8500	808	893	83	45	9.9	4.0	3.1	17
29	15	18	54	6080	---	717	80	43	9.5	3.6	3.0	16
30	14	21	51	2850	---	582	78	42	10	3.8	2.9	15
31	14	---	48	1620	---	479	---	40	---	3.6	3.1	---
TOTAL	442.1	511	5318	39446	17746	16847	4997	1789	548.9	176.1	98.0	152.5
MEAN	14.3	17.0	172	1272	634	543	167	57.7	18.3	5.68	3.16	5.08
MAX	34	23	1800	8500	2170	1330	437	96	38	8.8	4.5	19
MIN	5.7	13	24	38	230	244	78	40	9.5	3.6	2.6	2.6
AC-FT	877	1010	10550	78240	35200	33420	9910	3550	1090	349	194	302
CAL YR 1980	TOTAL	187951.8	MEAN 514	MAX 18400	MIN 5.7	AC-FT 372800						
WTR YR 1981	TOTAL	88071.6	MEAN 241	MAX 8500	MIN 2.6	AC-FT 174700						

11468500 NOYO RIVER NEAR FORT BRAGG, CA

LOCATION.--Lat 39°25'42", long 123°44'12", in NE¼ sec.15, T.18 N., R.17 W., Mendocino County, Hydrologic Unit 18010108, on right bank 0.7 mi (1.1 km) downstream from South Fork, and 3.5 mi (5.6 km) east of Fort Bragg.

DRAINAGE AREA.--106 mi² (275 km²).

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.--30 years, 208 ft³/s (5.891 m³/s), 150,700 acre-ft/yr (186 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,600 ft³/s (753 m³/s) Mar. 29, 1974, gage height, 27.14 ft (8.272 m), from rating curve extended above 4,500 ft³/s (127 m³/s) on basis of slope-conveyance study; minimum daily, 0.79 ft³/s (0.022 m³/s) Sept. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,030 ft³/s (85.8 m³/s) Jan. 28 (1115 hrs), gage height, 11.00 ft (3.353 m), no other peak above base of 2,400 ft³/s (68 m³/s); minimum daily, 2.3 ft³/s (0.065 m³/s) Aug. 25 and Sept. 23-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	5.8	18	28	418	379	242	36	22	9.6	4.1	2.6
2	4.1	5.8	91	26	315	301	208	35	21	9.5	4.0	2.6
3	4.0	5.8	925	26	249	245	178	34	20	9.3	3.9	2.6
4	3.7	6.0	507	51	203	392	154	33	19	9.0	4.1	2.6
5	3.5	6.1	230	43	166	372	135	32	19	9.0	4.0	2.6
6	3.4	6.2	134	37	142	325	123	31	18	8.6	4.0	2.6
7	3.5	7.5	91	34	123	281	114	31	17	8.4	4.0	2.6
8	3.5	10	68	31	108	232	105	30	19	8.1	4.0	2.5
9	3.6	10	53	29	95	198	97	27	19	7.8	3.8	2.4
10	3.6	8.9	42	28	82	164	90	23	18	7.5	3.6	2.4
11	4.0	8.2	36	26	76	149	83	27	17	7.2	3.6	2.4
12	8.5	7.8	32	26	68	131	78	26	16	7.1	3.4	2.4
13	14	7.5	25	23	179	119	73	26	15	6.9	3.4	2.4
14	30	7.5	21	22	817	107	69	26	15	6.7	3.3	2.4
15	20	7.5	20	22	528	111	65	25	14	6.5	3.3	2.4
16	12	7.3	19	24	411	111	61	26	14	6.4	3.2	2.5
17	9.2	7.3	18	32	394	95	57	28	13	6.2	3.1	2.5
18	7.9	7.3	17	35	334	93	56	91	13	6.2	3.0	2.5
19	7.1	7.2	17	41	302	106	60	68	12	6.0	3.1	2.5
20	6.7	7.1	16	59	259	124	58	48	13	5.9	2.9	2.5
21	6.5	7.4	54	57	220	178	53	41	12	5.6	2.8	2.5
22	6.4	14	118	652	189	239	50	35	12	5.4	2.6	2.4
23	6.4	16	81	619	164	230	48	32	11	5.1	2.5	2.3
24	6.4	13	63	392	295	205	47	30	12	5.0	2.4	2.3
25	6.4	11	51	270	460	338	45	31	11	4.8	2.3	2.5
26	6.2	9.9	42	227	602	725	44	30	11	4.5	2.4	3.0
27	6.1	9.3	37	1030	577	696	43	27	11	4.3	2.6	4.0
28	6.1	9.0	37	2400	470	530	40	25	10	4.2	2.6	7.2
29	6.1	11	32	1810	---	410	39	24	10	4.2	2.5	5.3
30	5.8	18	30	975	---	323	38	23	9.7	4.1	2.7	4.0
31	5.8	---	29	594	---	266	---	22	---	4.1	2.5	---
TOTAL	224.7	265.4	2954	9669	8246	8175	2553	1023	443.7	203.2	99.7	85.5
MEAN	7.25	8.85	95.3	312	295	264	85.1	33.0	14.8	6.55	3.22	2.85
MAX	30	18	925	2400	817	725	242	91	22	9.6	4.1	7.2
MIN	3.4	5.8	16	22	68	93	38	22	9.7	4.1	2.3	2.3
AC-FT	446	526	5860	19180	16360	16220	5060	2030	880	403	198	170
CAL YR 1980	TOTAL	63295.3	MEAN	173	MAX	5470	MIN	3.4	AC-FT	125500		
WTR YR 1981	TOTAL	33942.2	MEAN	93.0	MAX	2400	MIN	2.3	AC-FT	67320		

11469000 MATTOLE RIVER NEAR PETROLIA, CA

LOCATION.--Lat 40°18'42", long 124°15'48", in NW¼ sec.11, T.2 S., R.2 W., Humboldt County, Hydrologic Unit 18010107, on right bank 0.2 mi (0.3 km) upstream from Clear Creek, 1.5 mi (2.4 km) southeast of Petrolia, and 1.7 mi (2.7 km) upstream from North Fork.

DRAINAGE AREA.--240 mi² (622 km²).

PERIOD OF RECORD.--October 1911 to December 1913, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1912-13.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m), from topographic map. November 1911 to December 1913, nonrecording gages at several sites upstream within 0.3 mi (0.5 km) of present site at various datums. Dec. 11, 1950, to July 14, 1955, at site 0.3 mi (0.5 km) upstream at datum 7.48 ft (2.280 m) higher. July 15, 1955, to Oct. 26, 1967, at site 0.4 mi (0.6 km) downstream at different datum.

REMARKS.--Records good. Diversions for irrigation of about 350 acres (1.42 km²) above station.

AVERAGE DISCHARGE.--33 years, 1,331 ft³/s (37.69 m³/s) 964,300 acre-ft/yr (1.19 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,400 ft³/s (2,560 m³/s) Dec. 22, 1955, gage height, 29.60 ft (9.022 m) site and datum then in use, from rating curve extended above 26,000 ft³/s (736 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 17 ft³/s (0.48 m³/s) Sept. 5, 15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s (425 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 2	2045	*28400 776	16.56 5.047	Jan. 27	1230	18800 532	13.88 4.231
Jan. 22	1330	21600 612	14.71 4.483				

Minimum daily discharge, 22 ft³/s (0.62 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	43	211	670	2560	2700	1780	266	180	79	46	26
2	27	89	11700	606	1880	2060	1460	259	176	79	46	26
3	27	94	13500	699	1490	1660	1300	251	169	78	47	26
4	25	67	10200	902	1220	2060	1150	241	163	76	45	25
5	25	53	3590	717	1040	1640	1050	231	150	76	43	24
6	25	46	2100	643	893	1450	989	226	147	76	42	24
7	25	169	1450	591	776	1260	924	219	146	74	41	24
8	25	337	1110	545	705	1120	856	210	182	74	40	24
9	24	158	915	503	650	1000	790	206	235	72	40	22
10	24	103	755	468	582	900	729	203	193	71	38	23
11	26	81	640	432	593	830	685	194	176	70	37	24
12	47	70	566	409	585	760	640	186	161	68	35	23
13	76	63	504	380	4240	710	596	177	153	66	34	23
14	105	58	457	363	8850	790	561	177	146	65	34	23
15	93	57	416	342	4030	970	528	180	135	64	34	23
16	68	56	388	364	3110	780	504	181	130	63	34	23
17	51	53	366	863	2800	750	471	203	125	62	34	23
18	43	51	340	1330	2120	810	457	1340	120	61	33	23
19	38	50	318	1280	2020	960	446	674	116	60	33	23
20	35	47	303	2340	1820	1190	453	433	111	59	33	24
21	36	63	869	3270	1490	1530	407	348	105	57	34	25
22	35	508	1230	15200	1290	2600	387	308	102	54	34	24
23	35	380	766	9200	1180	2200	364	285	100	52	34	23
24	34	225	634	4760	2090	1870	349	270	94	51	34	23
25	34	154	842	3220	2700	4250	341	268	94	50	33	23
26	34	119	798	3130	7340	5140	333	256	88	50	33	40
27	35	100	934	12900	5780	3840	314	235	89	49	31	636
28	35	89	1110	11900	3750	2850	302	218	86	47	30	378
29	35	105	951	8550	---	2340	291	207	83	46	30	172
30	34	247	843	5590	---	1860	283	198	81	45	28	112
31	33	---	750	3670	---	1610	---	193	---	46	26	---
TOTAL	1216	3735	59556	95837	67584	54490	19740	8843	4036	1940	1116	1932
MEAN	39.2	125	1921	3092	2414	1758	658	285	135	62.6	36.0	64.4
MAX	105	508	13500	15200	8850	5140	1780	1340	235	79	47	636
MIN	24	43	211	342	582	710	283	177	81	45	26	22
AC-FT	2410	7410	118100	190100	134100	108100	39150	17540	8010	3850	2210	3830
CAL YR 1980	TOTAL	398582	MEAN	1089	MAX	14400	MIN	24	AC-FT	790600		
WTR YR 1981	TOTAL	320025	MEAN	877	MAX	15200	MIN	22	AC-FT	634800		

11470000 LAKE PILLSBURY NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°24'30", long 122°57'30", on line between secs.14 and 23, T.18 N., R.10 W., Lake County, Hydrologic Unit 18010103, Mendocino National Forest, at Scott Dam near right bank of Eel River, 0.3 mi (0.5 km) downstream from Rice Fork, and 10.2 mi (16.4 km) northeast of town of Potter Valley.

DRAINAGE AREA.--289 mi² (749 km²).

PERIOD OF RECORD.--October 1922 to September 1928 (daily gage heights only), October 1928 to current year. Monthend contents only for some periods, published in WSP 1315-B. Prior to October 1953, published as "at Hullville."

GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 81.7 ft (24.90 m) below National Geodetic Vertical Datum of 1929 (river-profile survey). Prior to Jan. 26, 1950, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete overflow type dam; storage began in December 1921. Usable capacity, 86,400 acre-ft (107 hm³) between gage heights 1,822.4 ft (555.47 m), sill of outlet gate and 1,910.0 ft (582.17 m), top of spillway gates; dead storage, 397 acre-ft (490,000 m³); spillway at gage height 1,900.0 ft (579.12 m). Water is released down Eel River to Van Arsdale Reservoir, from which it is diverted through tunnel to Potter Valley powerhouse; part is then used for irrigation and remainder flows into East Fork Russian River. Records given herein represent total contents.

COOPERATION.--Records furnished by Pacific Gas and Electric Co. in connection with a Federal Energy Regulatory Commission Project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 95,600 acre-ft (118 hm³) May 13, 16, 1925, gage height, 1,910.8 ft (582.41 m); maximum gage height, 1,911.84 ft (582.729 m) Dec. 22, 1964, from floodmarks; minimum contents, 10 acre-ft (12,300 m³) Dec. 9, 10, 1931, gage height, 1,822.5 ft (555.50 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 80,300 acre-ft (99.0 hm³) Apr. 28, gage height, 1,907.08 ft (581.278 m); minimum, 6,990 acre-ft (8.62 hm³) Dec. 1, gage height, 1,846.85 ft (562.920 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 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40191	21677	7003	14751	63336	66743	77523	79524	75748	68245	59395	51967
2	39495	21021	7387	14071	64236	66724	78357	79306	75917	67969	59163	51720
3	38802	20390	15013	13574	65223	66724	78463	79199	75411	67657	58967	51493
4	38442	19668	23125	13002	65223	66857	78787	79068	75242	67343	59647	51265
5	37783	19058	24315	12863	65529	67031	79047	79111	74969	67070	58401	51024
6	37087	18487	24525	12508	65761	66819	79350	78765	74696	66724	58170	50784
7	36093	17841	24565	12108	66010	66684	79155	78550	74362	66414	57957	50544
8	36059	17281	24445	11478	66067	66626	79155	78335	74278	66086	57713	50368
9	35405	16664	24105	10972	66105	66588	79155	78120	73986	65856	57486	50016
10	34746	15986	23815	10491	66067	66471	78938	77905	73841	65449	57294	49680
11	34225	15180	23475	10086	66045	66318	78916	77949	73612	65223	56964	49361
12	33701	14609	23145	9549	65761	66164	78872	77565	73469	64917	56722	48963
13	33110	13961	22765	9423	66993	66164	78743	77501	73099	64727	56481	48351
14	32517	13230	22229	9165	66935	65972	78699	77267	72872	64481	56276	47918
15	32011	12502	21686	8947	68500	65875	78721	77204	72748	63934	56032	47428
16	31427	11827	21236	8709	67677	66471	78765	77056	72582	63634	55775	46969
17	30769	11190	20736	8977	68029	66433	78699	76845	72418	63318	55536	46480
18	30110	10547	20028	9882	67657	66433	78699	76972	71950	62948	55314	46000
19	29479	10067	19543	10397	67245	66626	79026	77141	71624	62596	55093	45550
20	29050	9069	19041	11048	67110	66645	79438	77120	71302	62191	54821	45106
21	28335	8455	18632	12706	67090	68361	79568	77077	71080	61895	54583	44520
22	27784	8110	18268	17825	66877	69975	79678	76888	70899	61766	54345	43762
23	27255	7801	17602	25280	66626	71220	79786	76845	70497	61620	54109	43184
24	26641	7443	18236	28011	66724	72114	79786	76824	70316	61381	53874	42457
25	26001	7323	17568	29512	66664	74320	79852	76803	70055	61145	53605	41975
26	25383	7281	16902	30257	66664	76466	79786	76508	69715	60871	53387	41336
27	24795	7221	16300	34821	66857	76466	79852	76466	69455	60653	53151	40794
28	24175	7161	15697	49345	66838	75854	80048	76318	69215	60437	52921	40219
29	23525	7034	15092	56186	---	75833	79764	76212	68837	60185	52671	39899
30	22935	7024	15551	60365	---	76318	79764	76086	68619	59951	52427	39055
31	22331	---	15085	62227	---	76951	---	75980	---	59717	52195	---
MAX	40191	21677	24565	62227	68500	76951	80048	79524	75917	68245	59647	51967
MIN	22331	7024	7003	8709	63336	65875	77523	75980	68619	59717	52195	39055
(†)	1868.74	1846.92	1859.87	1898.12	1900.56	1905.53	1906.84	1905.07	1901.47	1896.74	1892.36	1883.52
(‡)	-18200	-15300	+8060	+47100	+4610	+10100	+2810	-3780	-7360	-8900	-7520	-13100

CAL YR 1980 MAX 86289 MIN 7003 † -56200
WTR YR 1981 MAX 80048 MIN 7003 ‡ -1500

† Gage height, in feet, at end of month.

‡ Change in contents, in acre-feet, rounded to Geological Survey standards.

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°24'29", long 122°58'13", in SE¼ sec.15, T.18 N., R.10 W., Lake County, Hydrologic Unit 18010103, Mendocino National Forest, on left bank 0.4 mi (0.6 km) upstream from Soda Creek, 0.7 mi (1.1 km) downstream from Scott Dam, and 9.7 mi (15.6 km) northeast of town of Potter Valley.

DRAINAGE AREA.--290 mi² (751 km²).

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.--59 years, 542 ft³/s (15.35 m³/s), 392,700 acre-ft/yr (484 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,300 ft³/s (1,590 m³/s) Dec. 22, 1964, gage height, 24.24 ft (7.388 m), from floodmarks, from rating curve extended above 9,400 ft³/s (266 m³/s) on basis of computed flow over Scott Dam at gage heights 18.50 ft (5.639 m) and 21.85 ft (6.660 m); minimum daily, 0.1 ft³/s (0.003 m³/s) Sept. 8, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,880 ft³/s (110 m³/s) Feb. 14, gage height, 9.93 ft (3.027 m); minimum daily, 47 ft³/s (1.33 m³/s) Dec. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	315	316	51	277	296	601	323	221	147	155	118	114
2	315	319	47	274	297	576	303	221	146	155	119	115
3	315	317	58	271	303	550	329	221	151	154	119	115
4	316	317	60	266	316	654	354	218	170	154	119	114
5	318	317	148	263	329	707	365	213	178	154	119	114
6	316	318	243	260	336	648	365	213	161	153	118	114
7	315	318	245	256	336	590	365	210	152	152	117	114
8	316	317	252	253	341	545	365	207	152	152	116	145
9	316	318	259	247	357	502	365	206	151	156	116	164
10	315	321	261	241	369	479	365	204	151	159	116	160
11	316	320	263	237	370	462	364	204	151	161	116	199
12	317	316	269	168	370	430	363	203	151	161	116	228
13	315	313	308	118	803	417	334	191	152	161	116	228
14	314	308	337	141	3540	408	268	193	154	161	116	235
15	312	302	334	138	2400	415	249	192	154	162	115	240
16	313	294	331	137	1600	469	249	192	154	163	114	245
17	317	286	328	138	1490	453	246	184	153	163	113	249
18	320	270	325	141	1120	432	242	159	157	163	113	249
19	318	265	319	142	954	413	227	159	160	164	113	249
20	317	259	315	145	833	415	217	171	160	142	113	249
21	313	210	301	149	708	361	223	169	158	103	113	295
22	307	154	294	110	616	340	223	166	156	106	113	328
23	306	151	307	53	550	344	223	166	156	113	113	328
24	308	109	304	166	592	333	223	165	156	116	113	330
25	311	60	302	301	642	270	223	164	156	116	113	326
26	309	60	300	288	632	1010	223	163	156	117	115	326
27	308	60	295	176	653	1560	221	155	156	118	118	326
28	307	60	292	70	636	1310	221	148	155	118	118	328
29	310	60	290	58	---	895	221	148	155	118	118	330
30	314	60	285	94	---	591	221	147	155	118	116	329
31	317	---	281	226	---	335	---	147	---	118	114	---
TOTAL	9726	7095	8004	5804	21789	17515	8480	5720	4664	4406	3586	6886
MEAN	314	237	258	187	778	565	283	185	155	142	116	230
MAX	320	321	337	301	3540	1560	365	221	178	164	119	330
MIN	306	60	47	53	296	270	217	147	146	103	113	114
AC-FT	19290	14070	15880	11510	43220	34740	16820	11350	9250	8740	7110	13660
CAL YR 1980	TOTAL	275064	MEAN 752	MAX	22300	MIN 47	AC-FT	545600				
WTR YR 1981	TOTAL	103675	MEAN 284	MAX	3540	MIN 47	AC-FT	205600				

11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°21'42", long 123°07'38", in SW¼NW¼ sec.6, T.17 N., R.11 W., Mendocino County, Hydrologic Unit 18010103 on right bank 100 ft (30 m) downstream from powerhouse of Pacific Gas and Electric Co., 1.8 mi (2.9 km) southwest of Van Arsdale Dam, and 2.9 mi (4.7 km) northwest of town of Potter Valley.

PERIOD OF RECORD.--December 1909 to current year. Prior to October 1922, monthly discharge only, published in WSP 1315-B. Prior to October 1931, published as Snow Mountain Water and Power Co.'s tailrace near Potter Valley.

REVISED RECORDS.--WSP 1395: 1950.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 1,020 ft (311 m), from topographic map. No gage prior to Dec. 1, 1922. Dec. 1, 1922, to Sept. 30, 1923, nonrecording gage and Oct. 1, 1923, to Apr. 12, 1950, water-stage recorder, at site 50 ft (15 m) upstream at different datum.

REMARKS.--Water is diverted from Eel River above Van Arsdale Dam. After passing through powerhouse, part of it is used for irrigation in Potter Valley and remainder flows into East Fork Russian River. Water for irrigation diverted from tailrace is included in figures of discharge.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Energy Regulatory Commission Project.

AVERAGE DISCHARGE.--71 years (water years 1911-81), 202 ft³/s (5.721 m³/s), 146,300 acre-ft/yr (180 hm³/yr).

EXTREMES FOR PERIOD OF RECORD (1922 TO CURRENT YEAR).--Maximum daily discharge, 348 ft³/s (9.86 m³/s) Apr. 24, 1953; no flow at times in several years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	293	303	51	232	304	300	274	142	145	143	98	97
2	290	307	109	227	306	300	273	141	143	145	99	97
3	291	303	233	224	304	300	268	141	146	145	99	97
4	291	304	215	224	304	300	303	142	146	146	99	94
5	290	303	126	221	303	300	303	141	151	145	98	92
6	289	304	217	214	303	300	300	141	147	147	97	91
7	289	310	218	208	303	301	293	143	147	141	100	89
8	295	307	217	204	303	300	288	140	147	140	95	106
9	294	307	215	200	303	300	280	139	148	140	94	145
10	300	309	216	192	304	301	278	140	147	146	94	144
11	306	309	215	184	304	301	276	143	148	145	91	168
12	309	303	214	147	304	275	272	145	148	148	93	203
13	312	301	228	26	304	230	256	146	147	149	93	204
14	313	292	273	26	271	215	143	139	149	148	92	204
15	308	287	274	26	299	242	141	136	154	146	92	216
16	309	280	277	28	300	299	142	137	152	147	93	216
17	301	274	275	62	300	289	141	138	147	149	92	223
18	304	257	270	79	299	280	140	138	148	148	91	224
19	310	251	268	81	299	272	141	135	150	148	90	222
20	310	247	263	79	299	283	140	141	149	145	90	224
21	310	226	278	80	298	301	140	139	151	83	90	253
22	309	147	276	226	299	301	140	139	153	84	89	294
23	309	137	280	270	299	301	140	141	153	90	89	299
24	308	127	267	185	300	299	139	142	151	97	90	298
25	307	46	259	303	300	301	138	142	153	100	89	303
26	305	47	255	303	300	302	139	144	152	100	92	297
27	301	45	250	301	300	301	141	145	149	101	95	304
28	293	46	247	294	300	301	142	141	147	99	95	306
29	294	50	245	301	---	303	145	142	147	98	94	300
30	301	57	240	302	---	259	145	141	145	98	95	303
31	304	---	235	303	---	274	---	143	---	99	98	---
TOTAL	9345	6786	7206	5752	8412	8931	6061	4367	4460	3960	2906	6113
MEAN	301	226	232	186	300	288	202	141	149	128	93.7	204
MAX	313	310	280	303	306	303	303	146	154	149	100	306
MIN	289	45	51	26	271	215	138	135	143	83	89	89
AC-FT	18540	13460	14290	11410	16690	17710	12020	8660	8850	7850	5760	12130
CAL YR 1980	TOTAL	90189	MEAN 246	MAX 317	MIN 40	AC-FT 178900						
WTR YR 1981	TOTAL	74299	MEAN 204	MAX 313	MIN 26	AC-FT 147400						

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°23'19", long 123°06'54", in NE¼ sec.30, T.18 N., R.11 W., Mendocino County, Hydrologic Unit 18010103, on left bank 1,000 ft (305 m) downstream from Van Arsdale Dam, and 4.6 mi (7.4 km) north of town of Potter Valley.

DRAINAGE AREA.--349 mi² (904 km²).

PERIOD OF RECORD.--November 1909 to September 1922 (combined monthly discharge only, of Eel River at this station and Snow Mountain Water and Power Co.'s tailrace near Potter Valley), October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Van Arsdale Dam, near Potter Valley.

REVISED RECORDS.--WSP 1315-B: 1913, 1920-23, 1925-27. WSP 1395: 1923(M), 1938.

GAGE.--Water-stage recorder. Altitude of gage is 1,400 ft (427 m), from topographic map. Nov. 18, 1909, to Mar. 3, 1927, recorder in reservoir 800 ft (244 m) upstream from Van Arsdale Dam at different datum. Oct. 1, 1927, to Feb. 28, 1937, nonrecording gage at present site and datum.

REMARKS.--Flow regulated by Lake Pillsbury (station 11470000) 11 mi (18 km) upstream. Water is diverted from Van Arsdale Reservoir through tunnel to Potter Valley powerhouse (station 11471000) after which part is used for irrigation and remainder flows into East Fork Russian River. Records given herein show only flow passing dam down Eel River.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Energy Regulatory Commission Project.

AVERAGE DISCHARGE (combined flow of Eel River at Van Arsdale Dam and Potter Valley powerhouse tailrace).--72 years (water years 1910-81), 637 ft³/s (18.04 m³/s), 461,500 acre-ft/yr (569 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,100 ft³/s (1,820 m³/s) Dec. 22, 1964, gage height, 33.9 ft (10.33 m), from floodmarks; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,660 ft³/s (132 m³/s) Feb. 14, gage height, 12.73 ft (3,880 m); minimum daily, 7.5 ft³/s (0.21 m³/s) June 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	13	9.0	49	179	468	168	84	8.0	8.5	12	13
2	15	13	82	49	142	417	129	84	8.2	8.3	12	12
3	15	13	439	58	124	372	137	84	7.5	8.2	12	12
4	15	13	219	55	119	536	121	82	8.0	8.2	12	12
5	14	13	53	50	118	585	124	74	10	8.2	12	12
6	14	13	63	51	116	484	122	73	9.0	8.1	12	12
7	14	14	47	52	107	400	121	69	8.3	7.9	12	12
8	13	13	47	52	103	338	118	63	7.8	9.2	12	12
9	13	12	50	50	109	277	120	65	8.0	11	12	12
10	13	12	53	51	117	241	119	65	7.9	12	12	12
11	13	12	50	53	118	226	116	62	8.0	12	12	11
12	13	12	53	59	112	212	116	60	8.5	12	12	11
13	13	12	61	80	599	232	113	54	8.5	12	12	11
14	13	13	63	112	4020	237	139	45	8.5	12	12	11
15	13	16	59	111	2650	262	120	48	8.1	12	12	11
16	12	13	54	114	1780	273	116	48	8.3	12	12	11
17	11	13	50	121	1630	235	115	45	8.6	12	12	11
18	12	12	52	105	1160	237	114	57	8.3	12	12	12
19	12	12	50	106	862	225	127	30	8.6	12	12	12
20	12	13	49	112	680	245	101	38	8.5	12	12	12
21	12	12	78	119	500	360	101	35	8.1	12	12	12
22	12	12	49	406	376	325	99	34	8.1	12	12	12
23	11	12	47	131	295	261	97	30	8.1	12	12	12
24	11	12	49	122	436	213	95	28	7.8	12	12	12
25	11	11	52	106	522	351	94	30	7.9	11	13	12
26	8.8	11	52	122	534	1140	93	27	8.2	12	13	11
27	10	11	52	1050	575	1810	90	22	8.2	12	13	12
28	13	11	51	1740	526	1500	89	15	8.2	12	12	12
29	15	11	51	592	---	888	84	15	8.0	12	12	12
30	13	11	49	173	---	566	83	11	8.4	12	13	12
31	13	---	50	150	---	189	---	8.9	---	12	13	---
TOTAL	394.8	371	2183.0	6201	18609	14105	3381	1485.9	247.6	340.6	377	353
MEAN	12.7	12.4	70.4	200	665	455	113	47.9	8.25	11.0	12.2	11.8
MAX	15	16	439	1740	4020	1810	168	84	10	12	13	13
MIN	8.8	11	9.0	49	103	189	83	8.9	7.5	7.9	12	11
AC-FT	783	736	4330	12300	36910	27980	6710	2950	491	676	748	700
CAL YR 1980	TOTAL	248907.0	MEAN 680	MAX 24000	MIN 6.9	AC-FT 493700						
WTR YR 1981	TOTAL	48048.9	MEAN 132	MAX 4020	MIN 7.5	AC-FT 95300						

11472150 EEL RIVER NEAR DOS RIOS, CA

LOCATION.--Lat 39°37'30", long 123°20'25", in SW¼SW¼ sec.32, T.21 N., R.13 W., Mendocino County, Hydrologic Unit 18010103, on left bank 1,100 ft (335 m) upstream from Outlet Creek, and 6.3 mi (10.1 km) south of Dos Rios.

DRAINAGE AREA.--528 mi² (1,368 km²).

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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, except for period of missing record, Jan. 29 to Mar. 16, which is fair. Flow partly regulated by Lake Pillsbury (station 11470000) 40 mi (64 km) upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--15 years, 919 ft³/s (26.03 m³/s), 665,800 acre-ft/yr (821 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,500 ft³/s (1,850 m³/s) Jan. 16, 1974, gage height, 33.64 ft (10.253 m), from rating curve extended above 26,000 ft³/s (736 m³/s) on basis of slope-area measurement of peak flow; no flow many days in 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 45.52 ft (13.874 m) from information by local resident, discharge, 100,000 ft³/s (2,830 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,000 ft³/s (312 m³/s) Jan. 28, gage height, 12.57 ft (3.831 m); minimum daily, 9.2 ft³/s (0.261 m³/s) Sept. 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	20	34	105	960	1000	606	160	41	14	14	12
2	11	19	449	108	760	840	515	160	37	14	13	13
3	11	19	4150	125	600	720	468	160	36	14	13	13
4	11	19	1550	151	520	1500	427	160	33	14	13	11
5	11	19	498	139	460	1300	392	157	29	14	13	10
6	11	19	252	108	430	1100	377	151	29	15	13	10
7	11	21	180	105	380	980	354	142	29	15	13	10
8	11	28	151	102	340	850	340	136	29	14	13	10
9	11	25	125	94	320	760	325	125	31	14	12	10
10	11	22	128	99	310	700	308	125	29	14	11	10
11	13	20	118	96	320	620	288	122	29	16	11	10
12	29	20	96	96	310	550	280	115	28	17	11	10
13	33	20	102	105	620	500	269	102	24	16	10	10
14	31	20	102	136	3300	460	269	99	25	16	10	9.2
15	26	19	118	171	2800	460	266	85	27	16	11	9.2
16	22	19	99	196	1800	460	255	88	27	16	11	9.4
17	20	22	88	266	1400	460	252	85	25	15	11	10
18	19	21	85	310	1300	460	245	171	24	14	11	10
19	18	21	88	319	1100	485	308	186	24	14	11	10
20	18	20	83	402	980	587	304	128	22	14	11	10
21	18	20	323	463	740	906	248	108	20	14	11	10
22	18	27	408	2730	640	964	231	88	20	14	11	10
23	18	28	205	1510	530	751	222	85	19	14	11	10
24	18	25	148	895	980	640	215	80	19	14	11	14
25	17	22	133	596	1500	1620	212	75	19	13	11	17
26	16	22	115	649	2200	2580	205	75	18	13	12	17
27	16	21	118	3870	1800	2430	192	73	17	13	12	25
28	16	20	122	7090	1350	1980	186	62	17	11	11	25
29	14	21	115	4500	---	1390	180	56	17	12	11	19
30	17	31	105	2700	---	1090	165	50	16	13	12	16
31	19	---	96	1600	---	714	---	45	---	14	12	---
TOTAL	526	650	10384	29836	28750	29857	8904	3454	760	441	361	369.8
MEAN	17.0	21.7	335	962	1027	963	297	111	25.3	14.2	11.6	12.3
MAX	33	31	4150	7090	3300	2580	606	186	41	17	14	25
MIN	11	19	34	94	310	460	165	45	16	11	10	9.2
AC-FT	1040	1290	20600	59180	57030	59220	17660	6850	1510	875	716	733
CAL YR 1980 TOTAL	378685.5	MEAN	1035	MAX	42400	MIN	6.9	AC-FT	751100			
WTR YR 1981 TOTAL	114292.8	MEAN	313	MAX	7090	MIN	9.2	AC-FT	226700			

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 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM FLOW, INST-CFS	SPECIFIC COND MICROMHO	PH FIELD (UNITS)	TEMP WATER (DEG C)	TURB- IDITY (NTU)	OXYGEN DISS (MG/L)	COD LOWLEVEL (MG/L)	BOD 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM CA, DISS (MG/L)
80/10/14	14 00	25		8.1	16.1	0.0	10.5			98	26
80/11/11	16 15	20	231	8.4		1.0	11.2				
80/12/10	14 20		207	7.7	6.0	16	12				
81/01/13	12 20		231	8.3	8.5	7.0	12.4				
81/02/04	10 15	475	156	8.0	8.0	15	12.0				
81/03/03	16 15			7.7	11.5	15.0	10.7	3.0	1.6	63	17
81/04/07	14 30	380	173	7.9	15.0	5	10.0				
81/05/13	08 50	96	203	8.4	18.5	1.0	9.1				
81/06/23	14 55	19	248	8.2	27.0	1.0	8.5				
81/07/15	07 35		242	8.1	22.0	1.0	7.6				
81/08/12	13 35		216	8.2	29.0	1.0	8.8				
81/09/17	07 10		213	8.0	19.5	1.0	7.6				

DATE	TIME	MGNSIUM MG, DISS (MG/L)	SODIUM NA, DISS (MG/L)	PTSSIUM K, DISS (MG/L)	ALKA- LINITY (MG/L)	CHLORIDE TOTAL (MG/L)	RESIDUE TOT NFLT (MG/L)	NO2+NO3 N-DISS (MG/L)	AMMONIA N DISS (MG/L)	AMMONIA+ ORG TOT N (MG/L)
80/10/14	14 00		8		1.1	92	5		0.00	
80/11/11	16 15									
80/12/10	14 20									
81/01/13	12 20									
81/02/04	10 15									
81/03/03	16 15	5	5	0.7	62	2	14	0.04	0.00	0.10
81/04/07	14 30									
81/05/13	08 50							0.00	0.00	0.20
81/06/23	14 55									
81/07/15	07 35									
81/08/12	13 35									
81/09/17	07 10									

DATE	TIME	PHOS-TOT AS P (MG/L)	PHOS-DISS ORTHO P (MG/L)
80/10/14	14 00	0.07	0.00
80/11/11	16 15		
80/12/10	14 20		
81/01/13	12 20		
81/02/04	10 15		
81/03/03	16 15	0.02	0.00
81/04/07	14 30		
81/05/13	08 50	0.01	0.00
81/06/23	14 55		
81/07/15	07 35		
81/08/12	13 35		
81/09/17	07 10		

11472200 OUTLET CREEK NEAR LONGVALE, CA

LOCATION.--Lat 39°37'05", long 123°21'20", in NE¼ sec.1, T.20 N., R.14 W., Mendocino County, Hydrologic Unit 18010103, on right bank 0.2 mi (0.3 km) downstream from Bloody Run Creek, 0.9 mi (1.4 km) upstream from mouth, and 6.9 mi (11.1 km) northeast of Longvale.

DRAINAGE AREA.--161 mi² (417 km²).

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

REVISED RECORDS.--WSP 1929: 1958(M), 1960.

GAGE.--Water-stage recorder. Datum of gage is 1,018.14 ft (310.329 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--25 years, 413 ft³/s (11.70 m³/s), 299,200 acre-ft/yr (369 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,900 ft³/s (2,210 m³/s) Dec. 22, 1964, gage height, 30.6 ft (9.33 m), from floodmarks, from rating curve extended above 17,000 ft³/s (481 m³/s) on basis of slope-area measurement of maximum flow; no flow at times in 1959, 1967, 1977, and 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,000 ft³/s (198 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Dec. 3	0615	10000	283	12.08	3.682
Jan. 28	0745	*10000	283	12.09	3.685

Minimum daily discharge, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.4	21	62	633	484	87	37	14	1.7	.24	.24
2	1.2	2.3	1020	54	437	391	80	34	13	1.7	.21	.27
3	1.2	2.2	4850	86	344	326	76	31	13	1.5	.21	.23
4	1.0	2.4	1850	145	285	953	74	30	12	1.5	.25	.20
5	.92	2.4	710	115	240	710	72	29	11	1.3	.27	.16
6	1.0	2.6	325	88	208	475	70	27	10	1.4	.30	.13
7	1.0	3.9	186	72	181	384	68	25	9.2	1.4	.28	.08
8	1.0	7.0	125	63	161	341	66	24	9.5	1.3	.27	.05
9	1.0	7.0	92	56	145	290	65	22	9.6	1.2	.27	.01
10	1.0	6.0	72	51	128	250	64	22	9.5	1.2	.15	.03
11	1.3	5.1	60	46	133	225	64	20	10	1.0	.08	.05
12	5.0	7.0	51	42	130	199	64	19	9.7	1.0	.03	.05
13	7.4	7.5	45	39	1620	180	65	17	8.9	1.0	0	.03
14	8.6	10	39	36	2560	162	68	17	8.3	.94	0	.02
15	7.4	9.1	35	34	1140	240	77	16	7.6	.68	0	0
16	5.5	6.7	33	49	777	341	74	16	7.1	.59	0	0
17	4.2	5.4	31	216	713	265	70	18	6.1	.57	0	0
18	3.6	4.6	29	234	503	235	68	94	5.3	.64	0	0
19	2.9	4.1	28	318	439	279	90	99	4.8	.65	0	0
20	2.9	3.8	26	389	385	434	112	74	4.1	.57	0	0
21	2.6	4.2	602	353	310	952	93	49	4.0	.51	0	.04
22	2.4	9.2	478	2760	262	722	77	36	3.7	.45	0	.08
23	2.6	12	263	1860	232	371	66	30	3.1	.41	0	.08
24	2.6	11	157	1060	983	186	59	26	2.7	.35	0	.29
25	2.6	9.3	116	570	1230	168	56	23	2.5	.35	0	.69
26	2.9	8.1	93	771	1400	154	53	21	2.5	.27	.21	1.2
27	2.9	7.1	107	3900	905	139	51	20	2.4	.23	.25	4.2
28	2.6	6.5	159	6900	621	124	46	18	2.1	.27	.28	6.6
29	2.6	7.3	111	3790	---	109	42	17	2.0	.27	.26	4.6
30	2.6	15	86	2000	---	99	39	16	1.8	.25	.25	3.3
31	2.6	---	71	1110	---	93	---	15	---	.23	.27	---
TOTAL	88.32	191.2	11871	27269	17105	10281	2056	942	209.5	25.43	4.08	22.63
MEAN	2.85	6.37	383	880	611	332	68.5	30.4	6.98	.82	.13	.75
MAX	8.6	15	4850	6900	2560	953	112	99	14	1.7	.30	6.6
MIN	.92	2.2	21	34	128	93	39	15	1.8	.23	0	0
AC-FT	175	379	23550	54090	33930	20390	4080	1870	416	50	8.1	45
CAL YR 1980 TOTAL	138257.12			MEAN 378	MAX 14500	MIN .63	AC-FT 274200					
WTR YR 1981 TOTAL	70065.16			MEAN 192	MAX 6900	MIN 0	AC-FT 139000					

11472500 EEL RIVER ABOVE DOS RIOS, CA

WATER QUALITY RECORDS

LOCATION.--Lat 39°41'20", long 123°21'30", in SW¼ sec.7, T.21 N., R.13 W., Mendocino County, Hydrologic Unit 18010103, temperature recorder at site of former gaging station on left bank, 1.8 mi (2.9 km) upstream from Middle Fork, and 2.1 mi (3.4 km) south of Dos Rios.

DRAINAGE AREA.--705 mi² (1,826 km²).

PERIOD OF RECORD.--Water years 1957 to current year.

WATER TEMPERATURES: Water years 1958-59, 1961 to current year.

SEDIMENT RECORDS: Water years 1957-65.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1957 to September 1959, October 1960 to September 1965, May 1966 to current year.

SEDIMENT RECORDS: October 1957 to September 1965.

INSTRUMENTATION.--Temperature recorder since May 1961.

REMARKS.--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, 28.5°C Aug. 9-10; minimum recorded 4.0°C Dec. 12-15.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	18.0	13.0	12.5	9.0	8.5	9.0	8.5	9.0	8.0	11.5	10.0
2	21.0	18.5	14.0	12.5	10.0	8.5	8.5	8.0	9.5	8.5	12.0	10.5
3	21.0	18.5	14.5	14.0	10.5	10.0	9.5	8.5	9.5	8.5	12.5	11.0
4	21.0	18.0	15.0	13.5	10.5	9.5	9.5	9.0	10.0	9.0	10.5	9.0
5	21.0	18.5	15.0	14.0	9.5	9.0	9.0	8.5	10.0	9.0	9.5	8.0
6	21.0	18.5	14.5	13.5	9.0	8.5	9.0	8.0	10.0	8.5	10.0	8.0
7	20.5	18.5	15.0	14.5	8.5	6.5	9.0	8.0	9.5	8.5	10.0	9.0
8	19.5	17.5	15.0	14.0	6.5	6.0	8.5	8.0	9.5	9.0	11.0	9.5
9	19.5	17.5	14.0	13.0	6.0	5.0	8.5	8.0	10.0	9.0	11.5	10.0
10	19.0	17.0	13.0	12.0	5.5	5.0	8.5	8.0	10.0	9.0	11.5	10.0
11	17.5	16.5	12.0	11.0	5.5	4.5	8.5	8.0	10.5	10.0	12.0	10.5
12	17.0	16.0	11.0	9.5	5.0	4.0	8.0	7.5	11.5	10.5	11.5	10.5
13	17.0	16.0	10.0	9.0	4.5	4.0	8.5	7.5	11.5	11.5	11.0	10.0
14	16.5	15.5	10.0	9.0	4.5	4.0	9.0	8.0	11.5	11.0	11.0	10.0
15	16.0	14.5	10.0	9.0	5.0	4.0	9.0	7.5	11.5	11.0	11.0	10.0
16	15.5	14.0	9.5	8.5	6.0	5.0	10.0	9.0	11.0	11.0	11.0	9.5
17	15.5	14.0	10.0	9.0	6.5	5.5	10.0	9.5	12.0	11.0	11.0	9.5
18	16.0	14.0	10.0	9.0	7.5	6.5	10.0	9.5	12.5	11.5	11.0	10.5
19	16.0	14.5	9.5	9.0	8.5	7.5	10.5	10.0	12.5	11.5	11.0	10.0
20	16.0	14.5	9.5	9.0	8.5	8.0	11.0	10.5	11.5	10.5	10.5	10.0
21	16.0	14.5	9.0	8.5	9.5	8.5	11.0	11.0	11.5	9.5	10.5	9.5
22	16.5	15.0	10.0	9.0	10.0	9.5	11.5	11.0	12.0	10.5	12.0	10.5
23	16.0	15.0	11.0	10.0	9.5	8.5	11.0	10.5	11.5	10.5	12.5	10.5
24	15.5	15.0	10.5	9.0	9.0	8.5	10.5	9.0	11.0	10.0	12.0	11.0
25	16.0	15.0	9.0	8.5	9.5	8.5	9.5	8.5	10.0	9.5	12.0	11.0
26	15.5	14.0	8.5	7.5	10.0	9.5	9.5	9.0	10.5	9.5	11.0	10.5
27	15.5	14.0	9.0	8.0	9.5	9.0	10.0	9.5	11.5	10.0	12.0	10.5
28	15.0	13.5	9.0	8.0	10.5	9.5	10.0	9.5	11.0	10.5	13.0	11.0
29	14.5	13.0	9.0	8.5	10.5	10.0	9.5	9.0	---	---	13.0	12.0
30	13.5	13.0	9.5	9.0	10.0	9.5	9.5	9.0	---	---	12.5	10.5
31	13.5	12.0	---	---	9.5	9.0	9.0	8.0	---	---	12.0	11.0
MONTH	21.0	12.0	15.0	7.5	10.5	4.0	11.5	7.5	12.5	8.0	13.0	8.0

[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 mi² (1,930 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 901.58 ft (274.802 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--16 years, 1,596 ft³/s (45.20 m³/s), 1,156,000 acre-ft/yr (1.43 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,500 ft³/s (2,560 m³/s) Jan. 23, 1970, gage height, 27.15 ft (8.275 m); minimum daily, 3.3 ft³/s (0.093 m³/s) Aug. 21-23, Sept. 12-14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,100 ft³/s (711 m³/s) Feb. 14, gage height, 17.83 ft (5.435 m), no peak above base of 35,000 ft³/s (991 m³/s); minimum daily, 3.4 ft³/s (0.10 m³/s) Sept. 15-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	23	206	263	2020	1510	2060	590	278	45	10	6.1
2	13	23	2470	240	1810	1410	1890	542	260	44	10	5.2
3	13	24	13200	256	1680	1350	1690	509	246	42	10	6.1
4	12	25	8050	449	1550	2000	1530	477	226	39	8.9	6.1
5	12	26	2580	331	1400	1820	1440	445	202	38	8.9	6.1
6	12	28	1510	279	1230	1610	1400	420	175	40	10	6.1
7	11	28	987	251	1050	1480	1350	403	160	41	8.9	5.2
8	12	42	705	232	926	1420	1260	384	153	39	8.9	5.2
9	11	79	561	215	832	1310	1190	372	152	36	8.9	4.8
10	11	63	469	200	753	1240	1120	359	147	34	7.7	4.1
11	13	54	399	185	709	1190	1050	348	138	32	7.1	4.8
12	26	47	344	172	748	1120	974	336	131	31	6.1	4.1
13	40	44	307	161	4230	1110	900	324	126	30	6.1	4.1
14	62	41	275	155	14300	1040	848	313	125	28	6.1	4.1
15	65	39	254	149	4100	1130	820	297	118	27	6.1	3.4
16	65	37	251	162	3120	1490	779	283	112	26	5.7	3.4
17	54	35	241	339	4590	1220	767	269	105	24	5.7	3.4
18	46	34	222	525	2900	1150	772	859	97	22	5.2	4.1
19	40	33	207	567	2570	1260	1270	767	91	21	5.2	4.1
20	36	33	191	1030	2460	1330	1280	614	88	21	5.2	4.1
21	33	33	372	1860	2030	1940	1040	532	83	20	5.7	4.1
22	31	40	1170	7400	1750	2680	1010	485	76	18	5.7	4.1
23	31	67	569	6610	1550	2300	970	457	72	18	5.7	4.8
24	29	82	414	3110	1900	1990	938	440	68	16	5.7	7.1
25	29	71	357	2160	1850	3890	837	430	64	15	5.7	15
26	29	61	357	1950	1830	5440	771	436	60	15	6.1	18
27	28	54	332	8850	1810	3470	703	412	57	15	6.1	22
28	26	49	452	12200	1650	2940	643	367	55	15	6.1	91
29	26	47	387	5790	---	2720	639	336	51	12	6.1	61
30	26	127	325	3260	---	2510	623	312	48	12	6.1	44
31	24	---	291	2430	---	2200	---	293	---	10	6.1	---
TOTAL	879	1389	38455	61781	67348	59270	32564	13411	3764	826	215.8	365.7
MEAN	28.4	46.3	1240	1993	2405	1912	1085	433	125	26.6	6.96	12.2
MAX	65	127	13200	12200	14300	5440	2060	859	278	45	10	91
MIN	11	23	191	149	709	1040	623	269	48	10	5.2	3.4
AC-FT	1740	2760	76280	122500	133600	117600	64590	26600	7470	1640	428	725
CAL YR 1980	TOTAL	557073.0	MEAN	1522	MAX	46000	MIN	11	AC-FT	1105000		
WTR YR 1981	TOTAL	280268.5	MEAN	768	MAX	14300	MIN	3.4	AC-FT	555900		

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

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, 1981.

TURBIDITY: Water years 1965-68.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1966 to September 1967.

WATER TEMPERATURES: October 1957 to September 1959, October 1960 to current year.

SEDIMENT RECORDS: October 1965 to September 1976.

INSTRUMENTATION.--Temperature recorder since March 1970.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 35.5°C June 20, 1973; minimum recorded, 0.0°C Dec. 22, 1968.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 30.0°C July 27-28; minimum recorded, 3.5°C Dec. 11-14.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	18.5	12.0	12.0	9.0	8.0	8.0	6.5	6.0	4.5	10.0	8.0
2	20.5	18.5	13.0	12.0	9.5	8.0	7.0	6.5	7.0	5.5	10.5	8.0
3	21.0	19.0	13.5	13.0	10.0	9.5	8.5	7.0	6.5	5.0	10.0	9.0
4	20.5	18.5	13.5	12.5	10.0	8.0	8.5	8.0	6.5	5.0	---	---
5	20.5	19.0	13.0	13.0	8.0	7.5	8.0	7.0	6.5	5.5	---	---
6	20.5	19.0	13.0	12.0	8.0	7.5	7.5	6.5	6.5	5.0	---	---
7	20.5	17.5	14.5	13.0	7.5	6.0	7.0	6.5	6.5	4.5	---	---
8	20.0	18.0	14.0	12.5	6.0	4.5	7.5	7.0	6.5	6.0	---	---
9	19.5	18.0	13.5	12.5	5.0	4.5	7.5	7.0	8.0	6.5	---	---
10	19.5	17.5	12.5	11.5	5.0	4.0	7.0	6.0	7.5	6.5	---	---
11	18.5	17.0	12.0	10.0	4.5	3.5	6.5	6.0	9.0	7.5	---	---
12	17.5	17.0	10.0	8.5	4.5	3.5	6.5	5.5	9.5	8.0	---	---
13	17.5	16.5	9.5	7.5	4.0	3.5	6.5	6.0	10.0	8.5	---	---
14	17.5	16.0	9.0	7.5	4.0	3.5	7.0	6.0	9.5	8.0	---	---
15	16.0	14.0	8.5	7.5	5.5	4.0	7.5	6.5	9.0	8.0	---	---
16	15.5	14.0	8.0	7.5	6.0	5.0	8.5	7.5	9.0	8.5	---	---
17	15.5	13.5	8.5	8.0	6.5	6.0	9.0	8.5	9.5	8.5	---	---
18	15.0	13.5	8.5	8.0	8.0	6.5	10.0	8.5	10.5	8.5	---	---
19	14.5	13.5	8.5	8.0	8.0	7.5	10.0	9.0	10.5	9.5	---	---
20	14.5	13.5	8.5	7.5	8.0	7.5	9.5	9.0	9.5	7.5	---	---
21	15.0	14.0	8.0	7.5	9.0	8.0	10.0	9.5	9.5	7.0	---	---
22	15.0	14.0	9.5	8.0	9.5	9.0	10.5	9.5	10.0	8.0	---	---
23	15.5	14.0	11.0	9.5	9.0	7.5	9.5	8.5	9.5	8.5	---	---
24	15.5	14.0	10.5	8.5	7.5	7.0	8.5	7.0	9.0	8.5	---	---
25	15.0	15.0	8.5	7.5	9.0	7.5	7.0	6.0	8.5	7.5	---	---
26	15.0	12.5	8.5	7.0	9.0	8.5	7.0	6.5	9.0	7.5	---	---
27	14.0	13.5	7.5	7.0	9.0	8.5	8.0	7.0	10.0	8.0	---	---
28	14.0	11.5	7.5	6.5	9.5	9.0	7.5	6.5	9.5	8.5	---	---
29	12.5	11.5	8.0	7.0	9.5	9.0	7.0	5.5	---	---	---	---
30	12.0	11.0	9.5	8.0	9.0	8.0	7.0	6.0	---	---	---	---
31	12.0	11.0	---	---	8.0	7.0	6.0	5.0	---	---	---	---
MONTH	21.0	11.0	14.5	6.5	10.0	3.5	10.5	5.0	10.5	4.5	---	---

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

WATER-QUALITY RECORDS

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	20.0	17.0	23.5	21.0	27.5	25.0	28.5	26.0	22.5	22.0
2	---	---	19.0	16.0	25.0	21.0	27.5	26.5	27.5	25.5	22.5	22.0
3	---	---	17.5	14.5	25.0	21.0	28.0	26.5	27.5	25.5	22.5	22.0
4	---	---	17.5	14.5	26.5	22.0	28.0	27.0	27.0	25.5	22.5	22.0
5	---	---	17.5	14.0	26.0	22.5	28.0	26.5	28.0	25.5	22.0	21.5
6	---	---	17.0	13.5	26.0	22.5	27.5	25.5	28.0	26.5	22.0	21.0
7	---	---	17.0	14.0	24.0	22.0	26.5	24.0	28.0	27.0	22.0	21.0
8	---	---	18.0	15.0	24.5	22.5	26.0	24.0	28.5	27.0	22.0	21.0
9	---	---	18.5	16.0	25.0	20.5	26.5	24.5	29.0	28.0	22.0	21.0
10	---	---	19.5	16.5	23.0	21.0	26.0	23.5	29.0	27.5	22.0	21.0
11	---	---	20.0	17.0	23.5	20.0	25.5	23.5	29.0	27.5	22.0	20.5
12	---	---	19.5	17.0	22.5	20.0	26.0	24.0	29.0	27.5	23.0	20.5
13	---	---	19.5	18.0	22.0	19.0	26.5	24.0	28.5	26.5	22.5	20.5
14	---	---	20.0	18.0	23.0	18.0	27.0	25.0	28.0	26.0	22.0	20.5
15	14.0	12.0	19.5	17.0	23.0	20.0	27.5	25.5	27.0	25.5	22.0	20.5
16	15.0	11.0	18.5	15.5	24.5	22.0	27.5	25.5	27.0	25.0	22.0	20.5
17	15.5	12.0	18.5	17.5	25.0	21.5	28.0	26.0	27.0	25.5	21.5	19.5
18	14.5	13.0	18.0	16.0	26.0	22.0	28.0	25.5	26.5	25.5	21.0	19.5
19	14.0	11.0	17.5	14.5	26.0	23.0	28.0	26.5	25.5	24.0	21.0	19.0
20	14.0	10.5	17.5	15.0	27.0	24.0	28.5	27.0	25.0	23.0	20.0	18.5
21	16.0	11.5	19.0	15.0	26.5	24.0	29.0	27.5	24.5	23.0	20.0	17.0
22	17.5	13.0	20.5	16.0	26.5	24.0	29.0	27.5	24.5	23.5	18.5	16.0
23	18.5	14.5	21.5	18.0	26.5	24.0	29.5	28.0	24.5	23.0	17.5	15.5
24	16.5	15.0	21.5	19.5	26.0	24.0	29.5	27.5	24.5	22.5	17.0	15.5
25	15.0	13.0	22.0	19.5	27.0	24.5	29.0	27.0	23.5	22.5	17.0	15.0
26	14.0	11.5	22.0	19.5	26.5	24.0	29.5	28.0	23.5	22.0	16.5	16.5
27	16.5	11.0	23.5	19.5	26.5	23.5	30.0	28.5	23.0	22.0	17.0	16.5
28	18.5	13.5	24.5	20.0	26.5	25.0	30.0	28.5	23.5	22.5	17.5	16.0
29	20.0	16.0	24.0	21.0	28.0	23.5	29.5	27.0	23.5	22.5	17.0	15.0
30	20.5	17.0	24.0	20.0	28.0	26.0	28.5	26.5	23.5	22.5	16.0	14.0
31	---	---	25.0	20.0	---	---	28.5	27.0	23.5	22.0	---	---
MONTH	---	---	25.0	13.5	28.0	18.0	30.0	23.5	29.0	22.0	23.0	14.0
YEAR	30.0	3.5										

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. SIEVE DIAM. % FINER THAN .062 MM
NOV 26...	1130	7.0	63	3	.51	--
JAN 06...	1410	7.0	278	3	2.3	--
FEB 04...	1315	6.0	1570	55	233	80
MAR 03...	1335	9.0	1370	38	141	82
APR 15...	1235	11.5	835	7	16	83
29...	1330	17.0	657	7	12	89

LOCATION.--Lat 40°13'05", long 123°37'54", in SE¼NE¼ sec.8, T.3 S., R.5 E., Humboldt County, Hydrologic Unit 18010105, on right bank at downstream side of bridge, 1.0 mi (1.6 km) southeast of Fort Seward, 1.9 mi (3.1 km) upstream from Dobbys Creek, and 11.8 mi (19.0 km) northeast of Garberville.

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.

AVERAGE DISCHARGE.--26 years, 4,559 ft³/s (129.1 m³/s), 3,303,000 acre-ft/yr (4.07 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 561,000 ft³/s (15,900 m³/s) Dec. 22, 1964, gage height, 87.2 ft (26.58 m), from floodmarks, site and datum then in use, from rating curve extended above 110,000 ft³/s (3,120 m³/s) on basis of slope-area measurement at gage height 72.5 ft (22.10 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Sept. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55,700 ft³/s (1,580 m³/s) Jan. 28 (1615 hrs), gage height, 26.43 ft (8.056 m), no other peaks above base of 41,000 ft³/s (1,160 m³/s); minimum daily, 13 ft³/s (0.37 m³/s) Sept. 23, 24.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	60	302	757	7700	6480	5330	1010	475	112	29	20
2	40	60	3890	681	5910	5540	4750	939	455	107	30	20
3	40	61	28600	659	4810	4890	4000	864	435	102	31	20
4	40	65	26100	840	4080	7360	3490	814	409	96	31	20
5	38	70	8730	963	3530	7750	3080	764	374	92	31	19
6	37	71	4210	817	3170	6000	2850	716	346	87	30	19
7	37	83	2480	718	2780	5050	2660	672	322	84	31	19
8	35	87	1740	648	2460	4470	2460	638	288	83	30	19
9	35	92	1370	602	2280	3920	2270	604	282	80	29	19
10	35	118	1160	562	2140	3510	2110	573	279	78	28	19
11	35	129	1020	525	2080	3220	2000	547	267	73	27	18
12	48	116	897	498	2090	2990	1870	524	255	70	26	17
13	51	106	797	473	6220	2780	1760	501	243	68	24	17
14	77	100	726	454	35800	2640	1650	480	234	65	23	16
15	104	96	664	451	18000	2670	1580	466	222	65	21	15
16	115	94	619	471	12100	4130	1510	448	217	64	21	15
17	116	92	599	662	13900	3440	1410	445	206	60	21	15
18	105	90	564	1310	10200	2960	1390	659	196	58	21	15
19	93	89	523	1390	8270	3210	1580	1950	185	54	20	15
20	85	87	501	2120	7850	3720	2530	1310	180	51	20	14
21	78	87	777	3150	6230	5950	1990	1070	173	49	20	14
22	74	106	3300	15000	5100	8360	1730	856	166	46	21	14
23	71	116	1950	22700	4360	6670	1650	749	159	44	21	13
24	70	150	1220	11000	5910	5230	1560	686	152	43	21	13
25	71	154	998	6680	8440	7940	1470	656	143	39	21	15
26	70	146	921	5120	9550	16700	1340	645	132	38	21	18
27	67	130	918	23100	9430	12600	1260	655	131	36	21	41
28	64	118	1070	45400	7690	10000	1150	634	125	35	21	53
29	62	128	1110	31600	---	8310	1070	579	121	34	21	66
30	61	179	937	17000	---	7320	1050	528	118	32	21	108
31	61	---	832	10900	---	6000	---	495	---	30	20	---
TOTAL	1955	3080	99525	207251	212080	181810	64550	22477	7290	1975	753	706
MEAN	63.1	103	3210	6686	7574	5865	2152	725	243	63.7	24.3	23.5
MAX	116	179	28600	45400	35800	16700	5330	1950	475	112	31	108
MIN	35	60	302	451	2080	2640	1050	445	118	30	20	13
AC-FT	3880	6110	197400	411100	420700	360600	128000	44580	14460	3920	1490	1400
CAL YR 1980	TOTAL	1693325	MEAN	4627	MAX	132000	MIN	26	AC-FT	3359000		
WTR YR 1981												

11475250 EEL RIVER AT SOUTH FORK, CA

LOCATION.--Lat 40°21'04", long 123°54'48", in SE¼NE¼ 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.

DRAINAGE AREA.--2,266 mi² (5,869 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1952 to current year. Published as "near McCann" in 1952-53, and as "at McCann" in 1954-67.

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM FLOW, INST-CFS	SPECIFIC COND MICROMHU	PH FIELD (UNITS)	TEMP WATER (DEG C)	TURB- IDITY (NTU)	OXYGEN DISS (MG/L)	HARDNESS (MG/L AS CaCO3)	CALCIUM CA,DISS (MG/L)	MAGNESIUM MG,DISS (MG/L)	SODIUM NA,DISS (MG/L)
80/10/14	11 25	60	281	7.8		1.0	9.5				
80/11/11	13 30	150	297	8.2		1.0	11.3				
80/12/10	11 40	1110	194	7.5	8.0	12	11.9				
81/01/06	10 30	1630	225	8.1	9.0	4.0	11.8				
81/02/03	15 30	4710	166	7.9	9.0	38	11.9				
81/03/03	13 15	4860	163	7.5	11.5	16	11.0				
81/04/07	11 50	2640	174	7.7	13.5	8.0	10.5				
81/05/12	12 55	640	228	8.3	19.0	1.0	9.7				
81/06/23	12 20	150	270	8.0	21.5	1.0	8.9				
81/07/14	12 15		290	7.9	22.5	1.0	8.9				
81/08/12	10 55		292	8.0	22.5	1.0	8.8				
81/09/16	15 10	15	306	8.1	23.5	0.0	9.0	140	38	10	8

DATE	TIME	POTASSIUM K,DISS (MG/L)	ALKAL- INITY (MG/L)	CHLORIDE TOTAL (MG/L)	BORON B,DISS (UG/L)
80/10/14	11 25				
80/11/11	13 30				
80/12/10	11 40				
81/01/06	10 30				
81/02/03	15 30				
81/03/03	13 15				
81/04/07	11 50				
81/05/12	12 55				
81/06/23	12 20				
81/07/14	12 15				
81/08/12	10 55				
81/09/16	15 10	1.4	120	6	200

11475560 ELDER CREEK NEAR BRANSCOMB, CA
 (Hydrologic bench-mark station)

LOCATION.--Lat 39°43'47", long 123°38'34", in NW¼NE¼ sec.29, T.22 N., R.16 W., Mendocino County, Hydrologic Unit 18010106, on right bank 0.2 mi (0.3 km) upstream from mouth, and 5.3 mi (8.5 km) north of Branscomb.
 Rain gage No. 1: Lat 39°43'50", long 123°38'07", in NW¼NW¼ sec.28, T.22 N., R.16 W., altitude, 1,440 ft (439 m) at site 0.5 mi (0.8 km) east of gaging station.

DRAINAGE AREA.--6.50 mi² (16.84 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and one recording and storage-type precipitation gage. Datum of gage is 1,391.08 ft (424.001 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for period of no gage-height record, Dec. 30 to Jan. 29, which are poor.
 No regulation; small diversion above station for domestic use.

AVERAGE DISCHARGE.--14 years, 25.6 ft³/s (0.725 m³/s), 18,550 acre-ft/yr (22.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft³/s (64.6 m³/s) Mar. 29, 1974, gage height, 9.77 ft (2.978 m), from rating curve extended above 660 ft³/s (18.7 m³/s) on basis of slope-area measurements at gage heights 9.40 ft (2.865 m) and 11.41 ft (3.478 m); minimum daily, 0.27 ft³/s (0.008 m³/s) Sept. 10-15, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 11.41 ft (3.478 m), from floodmarks, discharge, 3,660 ft³/s (104 m³/s) by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 371 ft³/s (10.5 m³/s) Jan. 28 (time unknown), gage height, 6.25 ft (1.905 m), no peak above base of 400 ft³/s (11 m³/s); minimum daily, 0.27 ft³/s (0.008 m³/s) Sept. 10-15.

 DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.66	1.1	6.1	5.2	86	54	34	6.3	3.4	2.1	.88	.57
2	.66	1.2	27	5.0	73	47	31	5.9	3.4	2.1	.88	.44
3	.66	1.3	128	5.0	60	43	28	5.8	3.3	2.0	.88	.42
4	.66	1.3	60	5.2	49	54	25	5.6	3.2	1.9	.88	.42
5	.66	1.3	35	5.0	41	48	23	5.5	3.3	1.9	.88	.35
6	.66	1.3	21	4.5	34	44	21	5.5	3.2	1.9	.88	.36
7	.66	2.7	13	4.2	29	40	19	5.5	3.1	1.9	.80	.39
8	.66	2.2	9.0	3.8	24	36	19	5.3	3.3	1.8	.71	.35
9	.66	1.7	6.6	3.6	21	33	17	5.2	3.3	1.8	.71	.28
10	.66	1.3	5.2	3.3	17	30	16	4.9	3.2	1.8	.64	.27
11	.70	1.1	4.6	3.2	15	27	15	4.7	3.1	1.8	.64	.27
12	2.9	1.1	4.2	2.9	15	24	14	4.6	2.9	1.8	.64	.27
13	2.7	1.0	3.8	2.8	35	22	13	4.6	3.1	1.8	.57	.27
14	2.1	1.0	3.5	2.7	100	20	13	4.6	2.9	1.7	.57	.27
15	1.7	1.0	3.3	2.6	84	23	12	4.7	3.1	1.7	.57	.27
16	1.5	1.0	3.1	3.5	66	21	11	4.6	2.9	1.6	.57	.35
17	1.5	1.0	2.9	5.2	56	19	11	5.0	2.8	1.5	.50	.42
18	1.4	1.0	2.8	6.0	50	19	9.8	11	2.8	1.5	.50	.42
19	1.3	1.0	2.7	9.2	43	19	10	6.1	2.7	1.4	.50	.42
20	1.3	1.0	2.7	16	37	26	9.4	5.5	2.9	1.3	.57	.42
21	1.3	1.4	14	29	32	43	9.1	5.0	2.8	1.3	.57	.42
22	1.2	3.0	10	74	28	54	8.6	4.9	2.7	1.3	.57	.42
23	1.2	2.4	8.0	50	25	50	8.3	4.7	2.7	1.2	.57	.42
24	1.2	1.9	7.4	40	33	43	8.1	4.4	2.5	1.2	.64	.57
25	1.2	1.6	6.9	35	37	54	7.6	4.4	2.4	1.1	.64	.80
26	1.2	1.4	6.3	38	49	73	7.3	4.3	2.4	1.1	.58	1.1
27	1.2	1.3	6.7	60	69	69	6.9	4.0	2.3	1.1	.57	3.5
28	1.2	1.2	6.2	215	64	58	6.5	3.7	2.3	1.0	.57	2.4
29	1.1	2.1	5.8	185	---	50	6.5	3.6	2.3	.95	.57	1.3
30	1.1	2.9	5.8	132	---	43	6.5	3.4	2.2	.88	.57	.94
31	1.1	---	5.6	104	---	37	---	3.6	---	.88	.57	---
TOTAL	36.70	44.8	427.2	1060.9	1272	1223	426.6	156.9	86.5	47.31	20.19	19.10
MEAN	1.18	1.49	13.8	34.2	45.4	39.5	14.2	5.06	2.88	1.53	.65	.64
MAX	2.9	3.0	128	215	100	73	34	11	3.4	2.1	.88	3.5
MIN	.66	1.0	2.7	2.6	15	19	6.5	3.4	2.2	.88	.50	.27
AC-FT	73	89	847	2100	2520	2430	846	311	172	94	40	38
(†)	2.05	5.04	14.83	14.20	9.43	7.03	0.70	1.86	0.22	0	0	2.86
CAL YR 1980 TOTAL	7399.28											
MEAN 20.2												
MAX 323												
MIN .66												
AC-FT 14680												
WTR YR 1981 TOTAL	4821.20											
MEAN 13.2												
MAX 215												
MIN .27												
AC-FT 9560												

† Precipitation, in inches, at rain gage No. 1.

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.
 CHEMICAL ANALYSES: Water years 1968 to current year.
 WATER TEMPERATURES: Water years 1968-79.
 SEDIMENT RECORDS: Water years 1969 to current year.

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: October 1967 to September 1979.
 SEDIMENT RECORDS: October 1973 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 29...	1530	1.1	135	7.7	8.0	730	10.9	96	K6	25
NOV 25...	1200	1.6	143	7.7	6.0	730	11.6	97	K6	K9
DEC 23...	1530	8.3	120	7.7	8.0	725	11.6	103	K14	K9
JAN 29...	1500	179	88	7.5	9.0	720	10.9	99	20	K7
FEB 23...	1630	25	115	7.7	9.5	720	10.8	100	12	K2
MAR 31...	1245	37	102	7.6	9.0	725	10.4	95	K2	K2
APR 14...	1300	13	124	7.6	11.0	725	10.2	96	K4	12
MAY 27...	1310	4.0	124	8.0	15.0	730	9.2	98	K4	K8
JUN 23...	1115	2.7	123	8.0	16.0	725	9.3	99	K4	K8
JUL 29...	1200	.95	142	8.0	17.0	725	9.3	101	K7	30
AUG 26...	1115	.57	157	7.7	13.0	725	9.5	95	16	30
SEP 29...	1415	1.2	139	7.9	11.0	725	10.2	97	24	49

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT										
29...	54	0	14	4.7	8.1	24	.5	.7	65	3.3
NOV										
25...	51	0	13	4.4	7.2	23	.4	.6	64	2.3
DEC										
23...	42	0	11	3.5	5.9	23	.4	.6	55	4.8
JAN										
29...	31	0	8.3	2.5	5.1	26	.4	.5	40	1.3
FEB										
23...	39	4	10	3.5	6.2	25	.4	.6	50	4.2
MAR										
31...	39	--	10	3.3	6.3	26	.5	.6	46	1.6
APR										
14...	42	--	11	3.5	6.4	25	.4	.6	48	1.9
MAY										
27...	45	--	12	3.7	7.0	25	.5	.7	55	2.0
JUN										
23...	53	--	14	4.4	7.7	24	.5	.5	62	1.0
JUL										
29...	53	--	14	4.4	7.9	24	.5	.7	66	<1.0
AUG										
26...	57	--	15	4.7	8.3	24	.5	.7	67	<1.0
SEP										
29...	58	--	16	4.4	7.5	22	.5	.9	63	<5.0

See footnotes at end of table.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	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, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	
DATE											
OCT 29...	3.1	.2	15	89	89	.12	.26	--	--	.12	
NOV 25...	4.3	.3	14	97	83	.13	.42	--	--	.00	
DEC 23...	2.3	.1	14	74	74	.10	1.7	--	--	.04	
JAN 29...	2.0	.1	15	57	54	.08	27.5	--	--	.00	
FEB 23...	1.9	.1	15	70	70	.10	4.7	.00	.00	.00	
MAR 31...	2.0	.1	15	77	63	.10	7.7	--	--	.10	
APR 14...	4.5	.0	15	72	70	.10	2.5	--	--	.00	
MAY 27...	2.1	.1	14	76	76	.10	.82	--	--	.00	
JUN 23...	2.3	.1	14	84	82	.11	.61	--	--	.02	
JUL 29...	2.5	.4	16	84	--	.11	.22	--	--	.13	
AUG 26...	2.5	.1	16	86	92	.12	.13	--	--	.11	
SEP 29...	3.1	.1	15	88	82	.12	.29	--	--	.00	
	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 S 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)	
DATE											
OCT 29...	.00	.01	.01	.67	.25	.68	.26	.80	.06	.05	
NOV 25...	.00	.01	.03	.23	.24	.24	.27	.24	.04	.05	
DEC 23...	.06	.01	.03	.94	.47	.95	.50	.99	.05	.03	
JAN 29...	.03	.00	.00	.59	.36	.59	.36	.59	.03	.02	
FEB 23...	.00	.00	.00	.60	.38	.60	.38	.60	.01	.01	
MAR 31...	.04	.01	.00	--	.22	--	.22	--	.03	.04	
APR 14...	.00	.01	.02	.56	.46	.57	.48	.57	.03	.03	
MAY 27...	.04	.02	.02	.35	.31	.37	.33	.37	.03	.02	
JUN 23...	--	.00	--	.65	--	.65	.52	.67	.03	.02	
JUL 29...	.12	.09	.10	.57	.56	.66	.66	.79	.05	.05	
AUG 26...	.12	<.07	.07	--	.34	.47	.41	.58	<.01	.01	
SEP 29...	.00	.02	.03	.50	.43	.52	.46	.52	.04	.01	
	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BARIUM, DIS- SOLVED (UG/L AS RA)	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, DIS- SOLVED (UG/L AS CO)	
DATE	TIME										
MAR 31...	1245	2	?	0	<1	20	0	<1	0	0	<3
SEP 29...	1415	0	0	100	<1	22	0	<1	<10	3	<3

See footnotes at end of table.

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	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)
MAR 31...	3	<10	10	12	0	0	<4	0	<1	.1
SEP 29...	11	<10	180	<10	8	<10	<4	0	3	.0

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	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)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 31...	.0	<10	0	0	0	0	100	<6.0	20	5
SEP 29...	.0	<10	0	0	1	0	150	<6.0	30	20

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
SEP 29...	1415	<2.2	<.4	<1.0	<.4	<1.0	<.4	.06	<.01

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	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)
OCT 29...	1530	2.5	--	--	--	--	--	--	--	--	--	--
NOV 25...	1200	4.2	--	--	--	--	--	--	--	--	--	--
FEB 23...	1630	1.8	--	--	--	--	--	--	--	--	--	--
MAR 31...	1245	--	.2	.1	.00	--	--	--	--	--	--	--
APR 14...	1300	1.5	--	--	--	--	--	--	--	--	--	--
MAY 27...	1310	2.2	--	--	--	--	--	--	--	--	--	--
JUN 23...	1115	1.1	--	--	--	--	--	--	--	--	--	--
JUL 29...	1200	.3	--	--	--	--	--	--	--	--	--	--
AUG 26...	1115	.8	--	--	--	--	--	--	--	--	--	--
SEP 29...	1415	--	2.4	.1	.00	.00	.00	0	.00	.0	.00	.0

DATE	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)
OCT 29...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 25...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 27...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 29...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 26...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 29...	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00	.0	.00

See footnotes at end of table.

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	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)
OCT 29...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 25...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 27...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 29...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 26...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 29...	.0	.00	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00

DATE	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	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)
OCT 29...	--	--	--	--	--	--	--	--	--	--	--
NOV 25...	--	--	--	--	--	--	--	--	--	--	--
FEB 23...	--	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--	--	--
MAY 27...	--	--	--	--	--	--	--	--	--	--	--
JUN 23...	--	--	--	--	--	--	--	--	--	--	--
JUL 29...	--	--	--	--	--	--	--	--	--	--	--
AUG 26...	--	--	--	--	--	--	--	--	--	--	--
SEP 29...	.00	.00	.0	.00	.00	0	.0	.00	.00	.00	.00

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. SIEVE % FINER THAN .062 MM
OCT 29...	1350	8.0	1.2	1	.00	--
DEC 23...	1400	8.0	8.3	4	.09	42
JAN 30...	1305	9.0	129	10	3.5	69
FEB 23...	1600	9.5	25	5	.34	--
MAR 31...	1250	9.0	37	2	.20	--
APR 14...	1235	11.0	13	1	.04	--
MAY 27...	1145	14.0	3.9	1	.01	--
JUL 29...	1120	17.0	.95	4	.01	--
AUG 26...	1100	13.0	.56	4	.01	--
SEP 29...	1355	11.0	1.2	3	.01	--

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 mi² (642 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 693.32 ft (211.324 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--16 years, 867 ft³/s (25.55 m³/s), 628,100 acre-ft/yr (774 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,700 ft³/s (2,060 m³/s) Jan. 4, 1966, gage height, 25.4 ft (7.74 m), from floodmarks, from rating curve extended above 21,000 ft³/s (595 m³/s) on basis of slope-area measurement at gage height 26.13 ft (7.964 m); minimum daily, 7.3 ft³/s (0.21 m³/s) Aug. 4-6, 12, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 26.13 ft (7.964 m), from floodmarks, discharge, 78,700 ft³/s (2,230 m³/s), by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,500 ft³/s (241 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 3	0115	9960 282	10.37 3.161	Feb. 14	0230	9620 272	10.32 3.118
Jan. 28	1030	*13700 388	11.86 3.615				

Minimum daily discharge, 15 ft³/s (0.42 m³/s) Sept. 21-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	27	131	216	1860	1800	1040	189	110	48	24	17
2	21	28	3480	197	1400	1440	894	180	108	47	24	17
3	20	28	7650	237	1130	1200	784	175	104	46	24	17
4	20	28	4320	324	915	1790	703	172	98	46	25	17
5	19	28	1510	262	811	1350	640	170	100	43	25	17
6	19	28	923	231	707	1130	592	162	97	43	24	17
7	19	49	685	206	629	1020	547	157	95	43	24	17
8	18	86	542	191	573	901	508	152	105	42	23	16
9	18	69	439	176	525	804	474	152	109	40	23	16
10	18	50	367	160	481	720	447	147	100	39	22	16
11	20	42	316	149	1140	659	421	142	94	38	22	16
12	36	38	278	139	467	601	400	138	91	36	21	16
13	45	36	248	129	2080	562	375	135	89	36	21	16
14	69	34	222	121	5700	510	358	128	86	36	21	16
15	56	34	202	113	2680	606	340	133	83	35	21	16
16	42	34	189	149	2170	707	323	135	78	35	20	16
17	35	34	177	312	2090	541	316	150	75	34	20	16
18	31	32	166	351	1580	530	301	486	72	32	20	16
19	30	32	159	406	1430	595	312	336	68	31	20	16
20	28	31	150	502	1260	838	312	251	65	30	20	16
21	27	41	878	480	1090	1650	279	203	63	29	20	15
22	27	138	902	3620	959	1740	265	178	62	29	20	15
23	27	131	511	2960	879	1320	251	165	59	28	20	15
24	27	84	384	1740	1600	1090	244	157	57	27	20	16
25	29	62	326	1190	2040	2360	234	157	56	26	20	18
26	28	52	282	1370	3720	4230	234	150	54	26	20	25
27	28	46	296	6650	3610	2880	218	140	52	25	20	60
28	28	43	414	10800	2430	1940	209	128	50	25	19	230
29	27	61	319	6650	---	1520	203	123	48	24	18	190
30	27	149	273	4470	---	1240	194	119	48	24	19	150
31	27	---	244	2780	---	1050	---	112	---	24	18	---
TOTAL	887	1575	26983	47281	45956	39324	12418	5322	2376	1067	658	1061
MEAN	28.6	52.5	870	1525	1641	1269	414	172	79.2	34.4	21.2	35.4
MAX	69	149	7650	10800	5700	4230	1040	486	110	48	25	230
MIN	18	27	131	113	467	510	194	112	48	24	18	15
AC-FT	1760	3120	53520	93780	91150	78000	24630	10560	4710	2120	1310	2100
CAL YR 1980	TOTAL	301656	MEAN 824	MAX 18800	MIN 18	AC-FT 598300						
WTR YR 1981	TOTAL	184908	MEAN 507	MAX 10800	MIN 15	AC-FT 366800						

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 mi² (1,391 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1395: Drainage area. WSP 2129: 1955.

GAGE.--Water-stage recorder. Datum of gage is 217.57 ft (66.315 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 2, 1940, nonrecording gage at site 200 ft (61 m) upstream at datum 0.8 ft (0.24 m) higher. Nov. 2, 1940, to Oct. 31, 1944, nonrecording gage at present site and datum.

REMARKS.--Records good. Occasional storage and release for recreation use during summer months at Benbow Dam. No diversion above station.

AVERAGE DISCHARGE.--42 years, 1,876 ft³/s (53.13 m³/s), 1,359,000 acre-ft/yr (1.68 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 199,000 ft³/s (5,640 m³/s) Dec. 22, 1964, gage height, 46.0 ft (14.02 m), from floodmarks, from rating curve extended above 53,000 ft³/s (1,500 m³/s) on basis of slope-area measurement at gage height 42.7 ft (13.01 m); minimum observed, 9 ft³/s (0.25 m³/s) Oct. 17, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s (425 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 3	1645	16800	476	Feb. 14	0700	18700	530
Jan. 28	1830	*27700	784				

Minimum daily discharge, 27 ft³/s (0.76 m³/s) Sept. 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	56	279	547	3670	4150	2420	394	223	103	49	33
2	57	63	4510	509	2890	3280	2070	372	219	102	49	33
3	43	64	14000	540	2380	2720	1800	359	209	99	48	32
4	41	62	9110	643	1990	3790	1610	342	202	97	43	32
5	39	61	2950	615	1720	3160	1460	338	195	96	48	32
6	38	60	1700	562	1530	2550	1360	327	187	94	49	32
7	37	74	1220	528	1380	2260	1260	319	185	91	48	32
8	36	141	967	499	1210	2020	1170	314	192	88	47	31
9	36	148	808	475	1110	1770	1100	307	216	84	46	30
10	36	125	703	449	1020	1600	1030	299	205	82	43	31
11	38	101	623	431	1030	1470	980	292	192	80	39	31
12	63	89	568	410	999	1350	929	277	182	79	38	30
13	86	79	519	392	5130	1260	881	259	176	77	38	30
14	106	73	475	379	15100	1160	828	250	170	75	37	30
15	131	72	447	365	6400	1290	790	231	165	73	37	30
16	107	70	421	379	4540	1620	751	226	159	73	37	30
17	88	68	400	512	4470	1290	721	264	157	72	37	30
18	76	66	380	645	3440	1190	686	581	149	70	37	30
19	67	65	362	700	3100	1270	713	784	141	67	37	30
20	63	65	348	974	2860	1840	706	536	139	65	36	30
21	61	70	719	965	2410	3340	642	437	134	63	37	29
22	58	176	1530	6650	2110	3960	593	381	130	61	36	27
23	57	276	1650	5750	1920	3100	570	350	125	59	38	27
24	57	209	1000	3560	3460	2530	536	334	123	58	38	30
25	63	150	740	2250	4320	4330	519	330	121	56	37	32
26	63	122	620	2130	8340	8450	509	318	116	55	37	42
27	61	106	580	12900	7760	5880	487	306	112	53	36	242
28	58	98	630	21100	5510	4230	457	288	110	53	35	418
29	57	114	740	16000	---	3380	437	272	110	51	35	334
30	57	220	640	8440	---	2790	413	246	106	50	34	274
31	55	---	589	5200	---	2370	---	163	---	49	34	---
TOTAL	1958	3143	50228	95499	101799	85400	28428	10496	4850	2275	1240	2074
MEAN	63.2	105	1620	3081	3636	2755	948	339	162	73.4	40.0	69.1
MAX	131	276	14000	21100	15100	8450	2420	784	223	103	49	418
MIN	36	56	279	365	999	1160	413	163	106	49	34	27
AC-FT	3880	6230	99630	189400	201900	169400	56390	20820	9620	4510	2460	4110
CAL YR 1980	TOTAL	656243	MEAN	1793	MAX	47500	MIN	35	AC-FT	1302000		
WTR YR 1981	TOTAL	387390	MEAN	1061	MAX	21100	MIN	27	AC-FT	768400		

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.
 CHEMICAL ANALYSES: Water years 1952 to current year.
 WATER TEMPERATURES: Water years 1961 to current year.
 SEDIMENT RECORDS: Water years 1955-62, 1981 (discontinued).

PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: November 1960 to current year.
 SEDIMENT RECORDS: October 1980 to September 1981.

INSTRUMENTATION.--Temperature recorder since November 1960.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
 WATER TEMPERATURES: Maximum recorded, 34.0°C July 25, 1964; minimum recorded, 1.0°C Jan. 20, 21, 1963.

EXTREMES FOR CURRENT YEAR.--
 WATER TEMPERATURES: Maximum recorded, 29.0°C July 3, Aug. 8-10; minimum recorded, 6.0°C Dec. 8.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,270 mg/L Dec. 3; minimum daily mean, 1 mg/L Oct. 9, 10.
 SEDIMENT DISCHARGE: Maximum daily, 123,000 tons (112,000 metric tons) Jan 28; minimum daily, 0.10 tons (0.09 metric ton) Oct. 9, 10.

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM FLOW, INST-CFS	SPECIFIC COND MICROMHO	PH FIELD (UNITS)	TEMP WATER (DEG C)	TURB- IDITY (NTU)	OXYGEN DISS (MG/L)	HARDNESS (MG/L AS CaCO3)	CALCIUM CA, DISS (MG/L)	MAGNESIUM MG, DISS (MG/L)	SODIUM NA, DISS (MG/L)
80/10/14	12 00	91	273	8.2		1.0	10.2				
80/11/11	14 05	115	242	8.3		1.0	12.4				
80/12/10	12 30	550	182	7.5	7.5	5.0	11.9				
81/01/06	11 25	558	186	7.9	9.5	2.0	11.5				
81/02/03	16 00	2350	135	7.5	9.5	19	11.6				
81/03/03	14 10	2510	133	7.5	12.0	22	10.5				
81/04/07	12 45	1260	153	7.6	14.0	4.0	10.9				
81/05/12	13 45	404	200	8.3	18.5	1.0	10.3				
81/06/23	13 00	127	215	8.3	24.5	1.0	10.8				
81/07/14	13 05		231	8.3	26.0	1.0	11.5				
81/08/12	11 40		206	8.3	25.0	1.0	11.5				
81/09/16	15 45	30	231	8.7	25.0	1.0	11.0	97	24	9	10

DATE	TIME	POTASSIUM K, DISS (MG/L)	ALKAL- LINITY (MG/L)	CHLORIDE TOTAL (MG/L)	NO2+NO3 N-DISS (MG/L)	PHOS-DIS ORTHOP P (MG/L)	IRON B, DISS (UG/L)
80/10/14	12 00						
80/11/11	14 05						
80/12/10	12 30						
81/01/06	11 25						
81/02/03	16 00						
81/03/03	14 10						
81/04/07	12 45						
81/05/12	13 45						
81/06/23	13 00						
81/07/14	13 05						
81/08/12	11 40						
81/09/16	15 45	1.4	94	8	0.01	0.00	100

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	123	6	2.0	56	2	.30	279	50	38
2	57	3	.46	63	2	.34	4510	2090	40100
3	43	2	.23	64	2	.35	14000	3270	122000
4	41	2	.22	62	2	.33	9110	1200	29500
5	39	2	.21	61	2	.33	2950	500	3980
6	38	2	.21	60	2	.32	1700	100	459
7	37	2	.20	74	3	.60	1220	30	99
8	36	2	.19	141	8	3.0	967	20	52
9	36	1	.10	148	7	2.8	808	10	22
10	36	1	.10	125	6	2.0	703	8	15
11	38	2	.21	101	5	1.4	623	7	12
12	63	2	.34	89	4	.96	568	6	9.2
13	86	4	.93	79	3	.64	519	5	7.0
14	106	5	1.4	73	3	.59	475	5	6.4
15	131	7	2.5	72	2	.39	447	4	4.8
16	107	5	1.4	70	2	.38	421	5	5.7
17	88	4	.95	68	2	.37	400	5	5.4
18	76	3	.62	66	2	.36	380	4	4.1
19	67	2	.36	65	2	.35	362	5	4.9
20	63	2	.34	65	2	.35	348	5	4.7
21	61	2	.33	70	3	.57	719	9	17
22	58	2	.31	176	10	4.8	1530	46	190
23	57	2	.31	276	9	6.7	1650	50	223
24	57	2	.31	209	5	2.8	1000	12	32
25	63	2	.34	150	5	2.0	740	10	20
26	63	2	.34	122	5	1.6	620	8	13
27	61	2	.33	106	4	1.1	580	9	14
28	58	2	.31	98	4	1.1	630	11	19
29	57	2	.31	114	20	6.2	740	14	28
30	57	2	.31	220	40	24	640	8	14
31	55	2	.30	---	---	---	589	5	8.0
TOTAL	1958	---	16.47	3143	---	67.03	50228	---	196907.2
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	547	6	8.9	3670	160	1590	4150	120	1340
2	509	7	9.6	2890	100	780	3280	80	708
3	540	5	7.3	2380	69	443	2720	59	433
4	643	9	16	1990	41	220	3790	171	1810
5	615	4	6.6	1720	28	130	3160	125	1070
6	562	4	6.1	1530	20	83	2550	60	413
7	528	4	5.7	1380	16	60	2260	43	262
8	499	4	5.4	1210	14	46	2020	30	164
9	475	4	5.1	1110	12	36	1770	23	110
10	449	3	3.6	1020	9	25	1600	17	73
11	431	3	3.5	1030	13	36	1470	14	56
12	410	2	2.2	999	9	24	1350	11	40
13	392	2	2.1	5130	1590	36800	1260	9	31
14	379	2	2.0	15100	2170	101000	1160	8	25
15	365	2	2.0	6400	250	4320	1290	17	64
16	379	4	4.1	4540	150	1840	1620	31	136
17	512	10	14	4470	150	1810	1290	10	35
18	645	26	47	3440	100	929	1190	7	22
19	700	33	63	3100	83	695	1270	8	27
20	974	35	93	2860	76	587	1840	45	224
21	965	40	104	2410	36	234	3340	154	1390
22	6650	1970	37700	2110	28	160	3960	118	1260
23	5750	540	8380	1920	28	145	3100	73	611
24	3560	100	961	3460	313	3140	2530	45	307
25	2250	70	425	4320	502	6680	4330	694	10800
26	2130	88	503	8340	1040	22900	8450	1240	28900
27	12900	2710	110000	7760	480	10100	5880	260	4130
28	21100	2110	123000	5510	200	2980	4230	140	1600
29	16000	1180	51000	---	---	---	3380	80	730
30	8440	560	12800	---	---	---	2790	65	490
31	5200	260	3650	---	---	---	2370	46	294
TOTAL	95499	---	348830.2	101799	---	197793	85400	---	57555

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	2420	50	327	394	2	2.1	223	11	6.6
2	2070	27	151	372	2	2.0	219	9	5.3
3	1800	22	107	359	3	2.9	209	6	3.4
4	1610	19	83	342	4	3.7	202	5	2.7
5	1460	14	55	338	5	4.6	195	5	2.6
6	1360	10	37	327	7	6.2	187	5	2.5
7	1260	8	27	319	7	6.0	185	5	2.5
8	1170	8	25	314	7	5.9	192	8	4.1
9	1100	8	24	307	5	4.1	216	25	15
10	1030	7	19	299	4	3.2	205	20	11
11	980	7	19	292	3	2.4	192	12	6.2
12	929	6	15	277	3	2.2	182	10	4.9
13	881	5	12	259	4	2.8	176	8	3.8
14	828	4	8.9	250	2	1.4	170	8	3.7
15	790	2	4.3	231	2	1.2	165	8	3.6
16	751	2	4.1	226	2	1.2	159	9	3.9
17	721	2	3.9	264	4	2.9	157	9	3.8
18	686	2	3.7	581	15	24	149	8	3.2
19	713	4	7.7	784	8	17	141	6	2.3
20	706	3	5.7	536	6	8.7	139	5	1.9
21	642	3	5.2	437	6	7.1	134	5	1.8
22	593	3	4.8	381	6	6.2	130	5	1.8
23	570	2	3.1	350	5	4.7	125	5	1.7
24	536	2	2.9	334	5	4.5	123	5	1.7
25	519	2	2.8	330	5	4.5	121	5	1.6
26	509	2	2.7	318	5	4.3	116	5	1.6
27	487	2	2.6	306	5	4.1	112	5	1.5
28	457	2	2.5	288	5	3.9	110	5	1.5
29	437	2	2.4	272	6	4.4	110	8	2.4
30	413	2	2.2	246	6	4.0	106	11	3.1
31	---	---	---	163	10	4.4	---	---	---
TOTAL	28428	---	970.5	10496	---	156.6	4850	---	111.7
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	103	15	4.2	49	10	1.3	33	6	.53
2	102	25	6.9	49	8	1.1	33	6	.53
3	99	15	4.0	48	6	.78	32	6	.52
4	97	10	2.6	43	6	.70	32	6	.52
5	96	10	2.6	48	6	.78	32	6	.52
6	94	10	2.5	49	6	.79	32	6	.52
7	91	8	2.0	48	6	.78	32	6	.52
8	88	5	1.2	47	6	.76	31	6	.50
9	84	5	1.1	46	6	.75	30	6	.49
10	82	5	1.1	43	6	.70	31	6	.50
11	80	5	1.1	39	6	.63	31	6	.50
12	79	5	1.1	38	6	.62	30	6	.49
13	77	5	1.0	38	6	.62	30	6	.49
14	75	5	1.0	37	6	.60	30	6	.49
15	73	5	.99	37	6	.60	30	6	.49
16	73	5	.99	37	6	.60	30	6	.49
17	72	8	1.6	37	6	.60	30	6	.49
18	70	13	2.5	37	6	.60	30	7	.57
19	67	8	1.4	37	6	.60	30	7	.57
20	65	5	.88	36	6	.58	30	6	.49
21	63	5	.85	37	6	.60	29	6	.47
22	61	5	.82	36	6	.58	27	6	.44
23	59	5	.80	38	6	.62	27	6	.44
24	58	5	.78	38	6	.62	30	6	.49
25	56	5	.76	37	7	.70	32	6	.52
26	55	5	.74	37	8	.80	42	20	2.3
27	53	5	.72	36	9	.87	242	30	20
28	53	6	.86	35	8	.76	418	60	68
29	51	10	1.4	35	7	.66	334	40	36
30	50	24	3.2	34	6	.55	274	30	22
31	49	14	1.9	34	6	.55	---	---	---
TOTAL	2275	---	53.59	1240	---	21.80	2074	---	160.88
YEAR	387390.0		802644.0						

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 .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
JAN									
27...	0800	9.5	10600	3030	86700	30	40	53	65
28...	1045	10.0	20400	1800	99100	25	35	47	60
28...	1700	10.0	26800	2970	215000	23	32	44	59
29...	0730	8.0	20000	1260	68000	27	38	50	62
FEB									
14...	1100	12.0	13800	1960	73000	--	--	--	--
MAR									
23...	1345	12.0	3050	70	576	--	--	--	--

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
JAN								
27...	77	--	88	--	97	--	100	--
28...	71	--	83	--	94	--	100	--
28...	72	--	87	--	96	--	100	--
29...	74	--	84	--	97	--	100	--
FEB								
14...	74	--	86	--	95	--	100	--
MAR								
23...	--	88	--	94	--	99	--	100

BELL RIVER BASIN

11476600 BULL CREEK NEAR WEOTT, CA

LOCATION.--Lat 40°21'05", long 124°00'10", in SW¼NW¼ sec.30, T.1 S., R.2 E., Humboldt County, Hydrologic Unit 18010106, on left bank 0.2 mi (0.3 km) downstream from Albee Creek, 4.5 mi (7.2 km) northwest of Weott, and 4.6 mi (7.4 km) upstream from mouth.

DRAINAGE AREA.--28.1 mi² (72.8 km²).

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.--21 years, 120 ft³/s (3.398 m³/s), 86,940 acre-ft/yr (107 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft³/s (185 m³/s) Dec. 22, 1964, gage height, 20.6 ft (6.28 m), from floodmarks, site and datum then in use, from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 28, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,770 ft³/s (50.1 m³/s) Jan. 27 (0930 hrs), gage height, 7.70 ft (2.347 m), no other peak above base of 1,700 ft³/s (48.1 m³/s); minimum daily, 0.78 ft³/s (0.022 m³/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	4.1	17	42	322	254	169	25	14	6.1	3.2	1.6
2	1.1	5.5	80	40	260	212	148	24	13	5.9	3.2	1.6
3	.91	3.7	1100	46	213	183	134	25	13	5.5	3.1	1.7
4	.88	3.6	600	45	174	236	124	24	12	5.5	3.0	1.6
5	.78	3.3	340	41	146	181	115	23	12	5.4	2.7	1.7
6	.82	5.2	150	38	124	157	102	23	12	5.5	2.7	1.8
7	.85	10	110	35	107	140	95	22	12	5.3	2.6	1.5
8	.89	25	96	34	95	123	88	21	13	4.9	2.5	1.3
9	.92	12	79	32	84	108	83	21	12	4.7	2.4	1.3
10	.94	7.4	70	31	74	97	76	20	12	4.7	2.3	1.3
11	1.6	4.8	62	30	67	89	71	19	12	4.6	2.2	1.4
12	5.9	4.3	57	29	60	80	67	19	13	4.3	2.2	1.4
13	9.7	4.1	51	27	377	75	63	18	13	4.3	2.3	1.4
14	16	4.0	47	26	500	70	59	19	12	4.2	2.4	1.4
15	8.0	3.9	44	26	318	103	56	19	11	4.1	2.3	1.4
16	5.1	3.7	41	28	289	94	53	19	11	4.1	2.2	1.4
17	3.9	3.6	38	57	251	82	49	24	10	4.2	2.2	1.4
18	3.4	3.6	36	65	209	76	48	53	9.2	4.2	2.0	1.4
19	2.9	3.5	34	75	201	78	50	27	8.7	4.3	2.3	1.4
20	2.5	3.4	32	164	180	112	48	23	8.6	4.1	2.3	1.5
21	2.4	6.6	58	222	160	200	43	21	8.3	3.9	2.1	1.5
22	2.3	14	46	1280	146	212	41	20	8.2	3.7	2.0	1.4
23	2.1	37	41	765	140	188	38	19	8.0	3.5	1.9	1.4
24	2.4	24	37	536	180	170	36	19	7.9	3.5	2.1	1.3
25	2.5	12	45	381	197	228	36	19	7.2	3.4	2.0	1.3
26	2.3	9.2	41	339	396	309	35	18	6.9	3.5	1.9	3.5
27	2.1	7.6	54	1160	358	303	32	16	6.9	3.2	1.9	19
28	2.1	6.6	54	1080	308	260	30	16	6.6	3.0	1.8	8.0
29	2.0	8.0	49	792	---	232	30	15	6.3	3.0	1.7	4.4
30	1.9	19	48	581	---	199	29	14	5.9	3.0	1.6	3.0
31	1.9	---	45	435	---	178	---	14	---	2.9	1.6	---
TOTAL	92.29	262.7	3602	8482	5936	5029	2048	659	305.7	132.5	70.7	74.3
MEAN	2.98	8.76	116	274	212	162	68.3	21.3	10.2	4.27	2.28	2.48
MAX	16	37	1100	1280	500	309	169	53	14	6.1	3.2	19
MIN	.78	3.3	17	26	60	70	29	14	5.9	2.9	1.6	1.3
AC-FT	183	521	7140	16820	11770	9980	4060	1310	606	263	140	147
CAL YR 1980	TOTAL	39375.76	MEAN	108	MAX	1770	MIN	.45	AC-FT	78100		
WTR YR 1981	TOTAL	26694.19	MEAN	73.1	MAX	1280	MIN	.78	AC-FT	52950		

11477000 EEL RIVER AT SCOTIA, CA
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 40°29'30", long 124°05'55", in SW¼ sec.5, T.1 N., R.1 E., Humboldt County, Hydrologic Unit 18010105, near center of span in left pier of bridge on U.S. Highway 101, 0.5 mi (0.8 km) north of Scotia, and 6 mi (10 km) upstream from Van Duzen River.

DRAINAGE AREA.--3,113 mi² (8,063 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to current year. Monthly discharge only for some periods and yearly estimates for 1915-16, published in WSP 1315-B.

REVISED RECORDS.--WSP 931: 1938. WSP 1315-B: 1914-15(M), 1917(M), 1927-28(M), 1936(M), 1939(M).
WSP 1345: Drainage area. WSP 1715: 1959.

GAGE.--Water-stage recorder. Datum of gage is 35.50 ft (10.820 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 12, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good, including period of no gage-height record, July 23 to Sept. 9. Flow slightly regulated by Lake Pillsbury (station 11470000) 138 mi (222 km) upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--71 years, 7,265 ft³/s (205.7 m³/s), 5,263,000 acre-ft/yr (6.49 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 752,000 ft³/s (21,300 m³/s) Dec. 23, 1964, gage height, 72.0 ft (21.95 m), from floodmarks, from rating curve extended above 220,000 ft³/s (6,230 m³/s) on basis of maximum flow at upstream stations; minimum observed, 10 ft³/s (0.28 m³/s) Aug. 12-14, 1924.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 72,000 ft³/s (2,040 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage Height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage Height (ft) (m)
Dec. 3	2230	76300 2160	25.06 7.638	Feb. 14	1445	77700 2200	25.24 7.693
Jan. 28	2330	*98700 2800	27.83 8.483				

Minimum daily discharge, 66 ft³/s (1.87 m³/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	172	636	1810	15600	14500	10600	1910	869	317	130	82
2	234	182	9880	1620	12000	11900	9660	1840	890	311	124	82
3	170	193	47300	1550	9950	10200	8240	1740	848	302	120	81
4	135	195	58500	1900	8440	12600	7170	1660	804	288	122	80
5	117	195	20000	2150	7290	15100	6400	1580	760	285	122	79
6	109	190	9280	1950	6570	11300	5820	1540	727	275	118	78
7	103	199	5760	1680	5850	9590	5420	1470	699	263	116	76
8	100	227	4090	1510	5160	8460	4990	1420	680	257	114	74
9	98	300	3170	1370	4660	7450	4610	1350	656	249	111	72
10	98	317	2600	1260	4340	6610	4270	1290	682	243	107	72
11	100	310	2200	1160	4170	6010	3980	1240	656	240	105	73
12	121	312	1900	1070	4110	5520	3730	1200	642	234	103	75
13	160	289	1660	983	9400	5130	3520	1160	629	228	102	74
14	257	266	1460	917	59800	4760	3320	1100	593	227	99	72
15	338	253	1300	867	37500	4780	3170	1070	569	223	98	70
16	342	240	1190	884	21700	6750	3030	1040	549	216	97	70
17	322	227	1080	1300	21900	6520	2880	1020	528	216	96	70
18	298	225	1000	2370	17700	5340	2750	1710	510	212	95	70
19	270	220	917	3100	14200	5310	2860	3070	487	203	94	69
20	245	216	843	4180	13500	6590	3740	3200	466	196	93	71
21	228	226	996	5510	11200	10100	3670	2350	451	192	91	67
22	213	277	4510	23900	9400	15400	3100	1970	434	185	90	67
23	202	406	4670	46300	8110	13400	2920	1680	414	178	89	66
24	194	513	2960	22600	10300	10400	2750	1520	405	174	87	69
25	195	492	2420	13500	15100	11800	2650	1450	386	170	87	71
26	195	435	2180	10200	22700	32600	2530	1390	365	164	86	84
27	195	379	2100	35200	24000	27400	2390	1360	359	159	86	165
28	190	342	2720	82700	18400	19700	2220	1340	351	152	86	455
29	183	329	2750	72500	---	15900	2050	1220	337	147	85	575
30	176	434	2400	37900	---	13800	1980	1090	324	141	84	485
31	173	---	2060	22600	---	11300	---	997	---	137	83	---
TOTAL	5928	8561	204532	406541	403050	346220	126420	47977	17070	6784	3120	3594
MEAN	191	285	6598	13110	14390	11170	4214	1548	569	219	101	120
MAX	342	513	58500	82700	59800	32600	10600	3200	890	317	130	575
MIN	98	172	636	867	4110	4760	1980	997	324	137	83	66
AC-FT	11760	16980	405700	806400	799400	686700	250800	95160	33860	13460	6190	7130
CAL YR 1980	TOTAL	2978906	MEAN	8139	MAX	194000	MIN	98	AC-FT	5909000		
WTR YR 1981	TOTAL	1579797	MEAN	4328	MAX	82700	MIN	66	AC-FT	3134000		

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 1979-81 (discontinued).

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 September 1981.

WATER TEMPERATURES: October 1957 to current year.

SEDIMENT RECORDS: October 1957 to September 1980.

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, 414 micromhos Dec. 21, 1980; 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, 414 micromhos Dec. 21; minimum recorded, 102 micromhos Jan. 28.

WATER TEMPERATURES: Maximum recorded, 26.5°C Aug. 10; minimum recorded, 6.5°C Dec. 12-15.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC 02...	1315	7950	233	8.0	11.0	750	180	10.1	93	K670	530
JAN 06...	1130	1950	207	--	10.0	765	1.0	11.2	98	K7	K7
MAR 09...	1245	7500	159	7.8	11.5	765	24	9.6	99	K3	K6
MAY 12...	1100	1210	225	8.3	17.0	760	.80	10.2	105	<1	K1
JUL 07...	1400	253	283	7.9	20.0	765	1.0	9.2	103	K4	K4
SEP 09...	1200	72	300	7.3	20.0	765	.80	9.3	104	K1	K1

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
DEC 02...	100	17	29	7.3	9.2	16	.4	1.2	--	24
JAN 06...	90	9	24	7.2	7.8	16	.4	.9	--	19
MAR 09...	68	2	18	5.7	6.3	17	.3	.8	67	13
MAY 12...	100	--	28	7.8	6.9	13	.3	1.0	98	19
JUL 07...	140	--	38	10	8.8	12	.3	1.5	130	20
SEP 09...	140	--	37	12	9.4	12	.4	1.5	140	18

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF 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)
DEC 02...	7.3	.1	7.5	134	138	.18	2880	.09	.11	.03
JAN 06...	6.0	.1	9.9	119	124	.16	627	.04	.05	.00
MAR 09...	2.7	.1	12	94	98	.13	1900	.00	.00	.00
MAY 12...	3.2	.1	11	135	132	.18	441	.12	.10	.12
JUL 07...	5.0	.2	9.9	162	172	.22	111	.02	.05	.06
SEP 09...	6.7	.2	9.2	178	178	.24	34.6	<.09	.02	<.06

See footnotes at end of table.

11477000 EEL RIVER AT SCOTIA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
DEC 02...	.01	2.5	.64	.65	2.6	.02	.05	--	4.3	.7
JAN 06...	.02	.70	.30	.32	.74	.04	.03	--	3.9	--
MAR 09...	.01	.60	.60	.61	.60	.07	.04	3.9	--	--
MAY 12...	.06	2.4	.64	.70	2.6	.07	.04	--	3.8	.1
JUL 07...	.07	.91	.48	.55	.99	.02	.01	1.1	--	--
SEP 09...	.00	--	.26	.26	--	.02	.02	--	5.0	.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)	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)
DEC 02...	1315	3	2	200	100	5	1	100	30	14
JAN 06...	1130	0	1	100	60	0	<1	10	20	0
MAY 12...	1100	1	2	100	70	0	<1	30	10	0
SEP 09...	1200	1	2	100	96	0	<3	10	20	1

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)
DEC 02...	0	45	3	30000	20	4	0	1000	10	.1
JAN 06...	<3	4	0	400	20	3	2	20	5	.1
MAY 12...	<3	4	1	70	10	2	2	10	3	.1
SEP 09...	<3	3	1	70	<10	7	9	20	2	.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)
DEC 02...	.0	120	1	1	0	0	0	110	20
JAN 06...	.0	2	0	0	0	0	0	10	5
MAY 12...	.0	3	1	0	0	0	0	10	20
SEP 09...	.0	3	1	0	0	0	0	0	<3

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE TIME	DEC 2,80 1315	MAR 9,81 1245	MAY 12,81 1100	JUL 7,81 1400	SEP 9,81 1200
TOTAL CELLS/ML	16000	130	410	10000	340
DIVERSITY: DIVISION	1.5	0.5	0.9	1.0	1.5
..CLASS	1.5	0.5	0.9	1.0	1.5
...ORDER	2.8	0.5	1.3	1.1	1.9
...FAMILY	3.1	0.5	1.4	1.1	1.9
...GENUS	3.2	0.5	1.4	1.2	1.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)										
..BACILLARIOPHYCEAE										
...ACHNANTHALES										
...ACHNANTHACEAE										
....ACHNANTHES	150	1	--	-	--	-	--	-	--	-
....COCCONEIS	*	0	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	150	1	--	-	--	-	--	-	--	-
..BACILLARIALES										
...NITZSCHIA										
....NITZSCHIA	2200	14	--	-	26	6	--	-	--	-
...EPITHEMIALES										
....EPITHEMIA	1800	11	--	-	--	-	--	-	--	-
....RHOPALODIA	*	0	--	-	--	-	--	-	43	13
...EUPODISCALES										
....COSCINODISCACEAE										
....CYCLOTELLA	*	0	--	-	300#	72	8200#	80	--	-
...FRAGILARIALES										
....FRAGILARIA	380	2	--	-	--	-	--	-	--	-
....SYNEDRA	380	2	120#	90	--	-	--	-	57#	17
...NAVICULALES										
....CYMBELLACEAE										
....CYMBELLA	--	-	--	-	--	-	--	-	14	4
....NAVICULACEAE										
....CALONEIS	*	0	--	-	--	-	--	-	--	-
....NAVICULA	1500	9	--	-	--	-	--	-	--	-
...SURIPELLALES										
....SURIPELLACEAE										
....CYMATOPLEURA	--	-	--	-	--	-	80	1	--	-
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....HYDRODICTYACEAE										
....PEDIASTRUM	1800	12	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	230	1	--	-	13	3	80	1	--	-
....SELENASTRUM	--	-	--	-	--	-	80	1	--	-
...SCENEDESMACEAE										
....SCENEDESMUS	920	6	--	-	52	13	800	8	57#	17
...VOLVOCALES										
....CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	*	0	13	10	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
....CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	240	2	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
....CHROOCOCCACEAE										
....ANACYSTIS	--	-	--	-	26	6	720	7	--	-
...NOSTOCALES										
....NOSTOCACEAE										
....ANABAENA	1900	12	--	-	--	-	--	-	170#	50
...OSCILLATORIALES										
....OSCILLATORIA	3800#	25	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...DINOKONTAE										
....GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	80	1	--	-

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

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

11477000 EEL RIVER AT SCOTIA, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	---	288	216	---	144	146	207	221	---	301	304
2	292	---	188	---	147	152	160	---	222	280	304	---
3	---	292	143	218	156	150	160	---	---	---	---	---
4	285	283	113	---	163	140	156	208	226	---	307	285
5	---	293	131	214	167	144	---	207	227	285	294	302
6	281	290	146	218	174	144	176	209	227	279	304	298
7	288	---	157	210	---	153	177	211	230	283	300	297
8	286	285	177	218	---	---	178	---	230	---	---	---
9	291	---	194	---	180	160	168	---	233	290	296	292
10	285	278	195	216	182	167	166	---	233	---	284	293
11	---	283	206	226	178	172	---	220	230	284	302	309
12	301	289	207	224	183	175	---	222	238	287	293	---
13	303	288	---	227	---	---	168	---	---	291	297	308
14	273	284	227	230	---	---	185	226	235	286	298	282
15	267	---	228	235	121	---	188	227	237	285	299	---
16	262	---	222	232	---	170	174	223	247	295	288	298
17	---	297	222	---	136	172	---	215	242	296	286	303
18	---	311	238	218	137	173	189	206	250	293	298	311
19	---	303	232	221	145	---	190	199	251	283	---	306
20	263	304	255	202	---	163	189	202	250	---	282	308
21	282	---	---	186	151	150	186	198	255	299	293	307
22	285	311	231	122	154	145	187	202	---	289	---	305
23	276	---	---	---	---	141	188	---	254	293	291	314
24	282	285	202	127	144	146	190	205	264	305	285	312
25	---	279	215	---	147	147	---	209	---	---	300	315
26	---	293	206	153	128	126	189	206	264	301	304	---
27	279	285	---	112	132	132	194	213	268	---	---	---
28	---	311	203	102	---	138	197	212	270	296	305	278
29	292	---	---	105	---	---	194	---	273	298	---	272
30	292	290	203	---	---	151	201	221	259	296	295	267
31	291	---	207	---	---	---	---	220	---	308	303	---
MONTH	---	---	201	---	---	---	180	---	244	---	296	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	15.5	14.5	12.5	10.5	9.5	12.0	10.0	12.0	12.0	10.5	9.5
2	22.5	17.0	16.0	13.0	12.5	10.5	10.5	9.5	12.0	8.0	10.5	9.5
3	22.5	17.5	17.0	14.0	12.0	11.0	11.0	10.5	9.0	8.0	11.5	10.5
4	22.0	15.5	18.0	14.0	11.5	10.5	10.5	10.0	9.5	8.5	11.0	10.0
5	21.5	16.5	17.5	14.0	10.5	9.5	10.5	10.0	9.5	8.5	10.0	9.0
6	21.0	16.5	16.5	14.0	10.0	9.5	10.5	9.5	9.5	8.5	10.0	9.0
7	20.5	16.0	18.0	15.5	9.5	8.5	10.0	9.5	9.5	8.0	10.5	10.0
8	20.5	16.0	16.5	14.5	8.5	7.5	10.0	9.5	8.5	8.0	12.0	9.5
9	20.5	14.0	16.0	13.5	8.0	7.5	10.5	9.5	9.5	8.0	12.5	11.0
10	19.5	15.5	14.5	12.5	8.0	7.0	10.5	9.5	9.5	8.5	12.0	11.5
11	18.5	14.5	14.0	11.5	7.5	7.0	10.0	9.0	10.0	9.0	13.5	11.5
12	19.0	14.5	13.0	11.0	7.5	6.5	10.0	8.5	11.0	9.5	13.5	12.0
13	18.5	14.5	12.0	9.5	7.5	6.5	10.5	9.0	11.5	11.0	12.5	11.5
14	16.5	14.0	11.5	9.5	7.5	6.5	10.5	9.0	11.0	10.5	12.5	11.0
15	16.5	13.0	12.0	9.5	8.0	6.5	10.5	9.0	10.5	10.5	12.0	11.0
16	16.0	13.0	11.0	9.0	9.0	7.5	11.5	10.5	10.5	10.5	12.0	10.5
17	16.5	12.5	12.5	9.5	9.5	8.5	12.0	10.5	11.0	10.5	11.5	10.5
18	17.0	13.5	12.0	9.5	10.0	9.0	11.5	10.5	11.5	11.0	11.5	10.5
19	16.5	13.0	13.0	10.0	10.5	9.0	11.5	10.5	12.0	11.5	12.0	10.5
20	17.0	14.0	12.5	10.5	11.5	10.0	11.5	11.0	11.5	10.0	11.5	10.5
21	16.5	14.5	11.5	10.5	11.5	11.0	12.0	11.5	11.0	9.5	11.5	10.0
22	17.5	13.0	13.0	11.0	11.0	10.5	12.0	11.5	11.0	9.5	11.5	10.5
23	17.5	12.5	13.5	11.5	10.5	10.0	12.0	12.0	10.5	10.0	11.5	10.5
24	15.0	14.0	12.5	11.0	10.0	10.0	12.0	12.0	10.5	9.5	11.5	11.0
25	16.5	13.5	12.0	10.0	12.0	10.5	12.0	12.0	9.5	8.5	12.0	11.0
26	16.0	12.0	11.5	9.0	11.5	10.5	12.0	12.0	9.0	8.0	11.0	10.0
27	17.5	14.5	12.0	9.5	11.0	10.5	12.0	12.0	10.0	9.0	12.0	9.5
28	17.5	12.5	12.5	10.5	12.0	11.0	12.0	12.0	10.0	9.5	12.0	10.5
29	17.0	11.5	11.5	11.0	12.0	11.0	12.0	12.0	---	---	12.0	11.5
30	14.5	11.5	11.5	10.5	12.5	11.5	12.0	12.0	---	---	12.0	11.0
31	16.0	11.5	---	---	12.0	11.0	12.0	12.0	---	---	11.5	10.0
MONTH	22.5	11.5	18.0	9.0	12.5	6.5	12.0	8.5	12.0	8.0	13.5	9.0

EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM
OCT 17...	1140	14.5	317	4	3.4	--	--
DEC 02...	1230	11.0	6170	463	7710	27	37
JAN 06...	1105	9.5	1950	7	37	--	--
MAR 09...	1215	11.5	7500	60	1220	--	--
MAY 12...	1200	18.0	1210	3	9.8	--	--
JUL 08...	1700	22.0	253	4	2.7	--	--
SEP 09...	1400	21.5	72	4	.78	--	--
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 17...	--	--	--	75	--	--	--
DEC 02...	47	60	73	84	95	98	100
JAN 06...	--	--	--	91	--	--	--
MAR 09...	--	--	--	61	--	--	--
MAY 12...	--	--	--	--	--	--	--
JUL 08...	--	--	--	59	--	--	--
SEP 09...	--	--	--	--	--	--	--

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA

LOCATION.--Lat 40°28'50", long 123°53'23", in NE¼SE¼ sec.12, T.1 N., R.2 E., Humboldt County, Hydrologic Unit 18010105, on left bank at downstream side of bridge on State Highway 36, 0.9 mi (1.4 km) upstream from Grizzly Creek, and 5 mi (8 km) west of Bridgeville.

DRAINAGE AREA.--222 mi² (575 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 358.18 ft (109.173 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1965, at site 2.4 mi (3.9 km) upstream at different datum.

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

AVERAGE DISCHARGE.--31 years, 872 ft³/s (24.70 m³/s), 631,800 acre-ft/yr (779 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft³/s (1,380 m³/s) Dec. 22, 1964, gage height, 24.0 ft (7.32 m), from floodmarks, present site and datum, from rating curve extended above 20,000 ft³/s (566 m³/s) on basis of slope-area measurement at gage height 21.3 ft (6.49 m), former site and datum; minimum daily, 4.6 ft³/s (0.13 m³/s) Aug. 8, 13-24, Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,100 ft³/s (371 m³/s) Dec. 2, gage height, 12.85 ft (3.917 m), no peaks above base of 15,000 ft³/s (425 m³/s); minimum daily, 5.8 ft³/s (0.16 m³/s) Sept. 25-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	17	142	217	1160	1240	1420	196	172	41	12	7.6
2	9.2	17	5870	195	974	1120	1250	185	161	39	11	7.4
3	9.2	17	7590	213	864	1110	1040	176	149	38	11	7.4
4	9.2	18	5890	303	762	1890	874	169	135	38	11	7.4
5	9.2	19	1640	237	692	1380	781	161	130	37	11	7.2
6	9.2	19	994	204	638	1130	720	152	122	36	11	6.9
7	9.2	20	714	185	567	999	679	145	118	35	10	6.8
8	9.2	81	528	171	516	908	589	139	121	34	10	6.8
9	9.2	83	422	158	488	804	545	133	133	33	10	6.8
10	9.2	57	356	146	461	732	495	129	114	32	9.8	6.6
11	9.8	45	307	136	454	675	458	121	108	30	9.6	6.6
12	12	38	271	128	499	632	429	118	103	29	9.6	6.6
13	25	34	238	120	3950	602	394	113	102	28	9.5	6.4
14	47	32	211	114	6910	568	367	110	98	27	9.2	6.4
15	82	29	193	110	2820	713	346	109	92	26	9.2	6.4
16	58	28	180	107	2380	1190	328	113	85	25	9.1	6.4
17	39	27	168	164	2180	860	315	119	80	24	8.8	6.4
18	31	25	156	389	1460	753	305	839	75	23	8.8	6.2
19	26	25	143	566	1710	788	355	919	71	22	8.8	6.2
20	24	24	133	671	1760	958	438	562	68	21	8.8	6.2
21	22	24	143	766	1320	1420	353	411	65	20	8.8	6.2
22	20	43	411	5780	1100	1820	325	335	62	19	8.4	6.0
23	19	86	259	4070	962	1310	307	288	59	18	8.3	6.0
24	18	88	207	1500	1400	1060	293	261	57	16	8.1	6.0
25	19	67	306	898	1260	2450	276	362	55	15	8.1	5.8
26	20	54	346	992	1710	3440	277	353	52	14	8.1	5.8
27	20	46	349	6450	1570	2400	254	285	49	14	8.1	20
28	20	41	415	6830	1380	1820	233	246	47	12	8.1	50
29	18	42	322	4130	---	1800	222	216	46	12	7.9	150
30	18	151	272	2280	---	1620	210	197	43	12	7.7	60
31	17	---	244	1500	---	1330	---	186	---	12	7.7	---
TOTAL	656.8	1297	29420	39730	41947	39522	14878	7848	2772	782	287.5	450.5
MEAN	21.2	43.2	949	1282	1498	1275	496	253	92.4	25.2	9.27	15.0
MAX	82	151	7590	6830	6910	3440	1420	919	172	41	12	150
MIN	9.2	17	133	107	454	568	210	109	43	12	7.7	5.8
AC-FT	1300	2570	58350	78800	83200	78390	29510	15570	5500	1550	570	894
CAL YR 1980	TOTAL	268381.7	MEAN 733	MAX 13300	MIN 8.4	AC-FT 532300						
WTR YR 1981	TOTAL	179590.8	MEAN 492	MAX 7590	MIN 5.8	AC-FT 356200						

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.

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 December 1960 to May 1979.

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM FLOW, INST-CFS	SPECIFIC COND MICROMHO	PH FIELD (UNITS)	TEMP WATER (DEG C)	TURB- IDITY (NTU)	OXYGEN DISS (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM CA,DISS (MG/L)	MGNSIUM MG,DISS (MG/L)	SODIUM NA,DISS (MG/L)
80/10/14	10 15	28	263	8.0		2.0	10.2				
80/11/11	11 50	45	237	8.1		1.0	11.6	110	32	8	6
80/12/10	10 25	362	170	7.3	6.0	6.0	12.5				
81/01/05	08 15	243	179	7.8	7.0	6.0	11.9				
81/02/03	10 50	882	145	7.4	7.5	12	12.4				
81/03/03	11 30	1110	122	7.4	11.0	11	11.4				
81/04/07	10 30	662	140	7.5	11.5	5.0	11.3				
81/05/12	10 45	116	189	8.2	18.5	1.0	9.9				
81/06/23	11 00	63	216	7.9	21.0	1.0	8.2				
81/07/14	10 45		243	7.9	21.0	1.0	8.7				
81/08/12	09 30		266	7.9	19.0	1.0	9.0				
81/09/16	13 50	7	293	8.2	22.0	0.0	9.8	130	39	8	9

DATE	TIME	POTASSIUM K,DISS (MG/L)	ALKALI- LINEITY (MG/L)	CHLORIDE TOTAL (MG/L)	BORON B,DISS (UG/L)
80/10/14	10 15				
80/11/11	11 50				
80/12/10	10 25	0.9	98	4	100
81/01/05	08 15				
81/02/03	10 50				
81/03/03	11 30				
81/04/07	10 30				
81/05/12	10 45				
81/06/23	11 00				
81/07/14	10 45				
81/08/12	09 30				
81/09/16	13 50	1.3	120	5	100

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 mi² (242.9 km²).

PERIOD OF RECORD.--September to December 1971, July 1972, June to September 1977, April to May 1980 (discharge measurements only), June 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,660 ft (811 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,950 ft³/s (83.5 m³/s) Jan. 28, 1981, gage height, 7.29 ft (2.222 m); minimum daily, no flow Oct. 8-10, 1980, Sept. 19-23, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 2,950 ft³/s (83.5 m³/s) Jan. 28, gage height, 7.29 ft (2.222 m), no peak above base of 3,000 ft³/s (85.0 m³/s); minimum daily, no flow Oct. 8-10, Sept. 19-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.60	22	69	399	408	353	57	34	6.6	1.4	.46
2	.12	.79	967	61	326	374	308	54	32	6.3	1.3	.45
3	.09	.79	1740	71	289	345	268	50	28	5.9	1.3	.45
4	.07	.79	1130	94	271	460	240	47	26	5.6	1.3	.40
5	.05	.71	405	78	236	401	214	45	24	5.3	1.2	.44
6	.03	.65	251	70	224	344	197	43	22	5.3	1.2	.40
7	.01	1.7	181	63	200	298	182	42	21	5.1	1.2	.38
8	0	1.4	135	55	180	266	165	39	24	4.7	1.2	.34
9	0	1.0	105	49	171	239	152	37	22	4.4	1.0	.30
10	0	.90	85	45	164	216	140	35	21	4.1	1.0	.28
11	.07	.87	71	41	160	199	130	33	19	3.9	1.0	.25
12	.55	.91	60	36	152	184	120	31	19	3.7	.96	.22
13	.57	.96	50	33	925	171	113	28	19	3.6	.97	.17
14	.79	1.0	43	30	1950	156	104	28	18	3.4	.92	.11
15	.82	1.1	39	28	902	182	96	28	17	3.3	.92	.08
16	.69	1.1	33	28	750	226	89	28	16	3.1	.88	.04
17	.60	1.1	29	41	766	187	86	33	15	2.8	.85	.03
18	.56	1.1	26	54	557	177	84	157	14	2.6	.79	.01
19	.47	1.1	23	88	483	184	119	126	13	2.6	.79	0
20	.46	1.0	21	119	423	194	139	114	12	2.5	.76	0
21	.44	1.2	89	126	348	362	112	93	12	2.3	.81	0
22	.40	3.0	127	1040	289	550	98	79	11	2.1	.71	0
23	.39	1.9	88	945	258	441	89	70	10	1.9	.63	0
24	.35	1.1	72	517	299	352	84	62	9.7	1.7	.66	.05
25	.38	.90	83	342	325	705	81	65	9.3	1.6	.63	.10
26	.35	.80	85	380	408	906	81	66	8.5	1.5	.58	.23
27	.39	.73	86	1770	464	799	77	57	8.1	1.6	.55	1.7
28	.46	.72	116	2320	438	643	71	48	7.7	1.6	.49	.96
29	.46	1.7	104	1270	---	544	66	43	7.2	1.5	.52	.63
30	.46	3.9	90	759	---	453	61	38	7.1	1.4	.46	.55
31	.49	---	78	525	---	378	---	37	---	1.4	.47	---
TOTAL	10.65	35.52	6434	11147	12357	11344	4119	1713	506.6	103.4	27.45	9.03
MEAN	.34	1.18	208	360	441	366	137	55.3	16.9	3.34	.89	.30
MAX	.82	3.9	1740	2320	1950	906	353	157	34	6.6	1.4	1.7
MIN	0	.60	21	28	152	156	61	28	7.1	1.4	.46	0
AC-FT	21	70	12760	22110	24510	22500	8170	3400	1000	205	54	18

WTR YR 1981 TOTAL 47806.65 MEAN 131 MAX 2320 MIN 0 AC-FT 94820

11480400 RUTH RESERVOIR NEAR FOREST GLEN, CA

LOCATION.--Lat 40°22'08", long 123°25'56", in NW¼NW¼ sec.19, T.1 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, near center of Robert W. Matthews Dam on Mad River, 5.6 mi (9.0 km) west of Forest Glen.

DRAINAGE AREA.--121 mi² (313 km²).

PERIOD OF RECORD.--October 1966 to current year. Records prior to October 1966 in files of Humboldt Bay Municipal Water District.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Humboldt Bay Municipal Water District).

REMARKS.--Reservoir is formed by earthfill dam; storage began July 1961. Total capacity, 51,800 acre-ft (63.9 hm³) at elevation 2,654.0 ft (808.94 m), crest of spillway. Water is released down Mad River for municipal use. Records given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 66,400 acre-ft (81.9 hm³) Feb. 14, 1975, elevation, 2,665.98 ft (812.591 m); minimum, 11,700 acre-ft (14.4 hm³) Oct. 24-28, 1977; minimum elevation, 2,607.13 ft (794.653 m) Oct. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 56,200 acre-ft (69.3 hm³) Jan. 28; maximum elevation, 2,657.86 ft (810.116 m) Jan. 28; minimum contents, 23,800 acre-ft (29.4 hm³) Nov. 30; minimum elevation, unknown.

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 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34400	27600	24400	39500	52900	52500	52600	52200	51900	50400	46200	40700
2	34200	27500	27500	39600	52500	52400	52700	52200	51900	50200	46000	40500
3	33900	27300	31000	39700	52300	52900	52800	52200	51900	50100	45800	40300
4	33700	27100	34400	39800	52100	53300	52800	52200	51900	50000	45700	40100
5	33500	26900	34900	39900	51900	53100	52800	52200	51800	49900	45500	40000
6	33200	26700	35300	40000	52000	52700	52700	52100	51800	49800	45300	39800
7	33000	26600	35800	40100	52200	52500	52700	52000	51800	49700	45200	39600
8	32800	26400	36900	40100	52400	52300	52700	52000	51800	49500	45000	39400
9	32500	26300	37000	40200	52400	52300	52600	51900	51800	49400	44900	39200
10	32300	26100	37100	40200	52400	52500	52500	51800	51700	49300	44700	39000
11	32100	26000	37200	40200	52400	52600	52500	51800	51700	49200	44500	38800
12	31900	25800	37300	40200	52600	52600	52500	51800	51700	49200	44400	38600
13	31700	25700	37400	40200	53700	52600	52400	51800	51700	49100	44200	38400
14	31500	25500	37300	40200	54200	52600	52400	51800	51600	49100	44000	38300
15	31300	25300	37400	40200	54100	52700	52400	51800	51500	48900	43800	38100
16	31100	25200	37400	40300	53900	52800	52400	51800	51500	48700	43600	37900
17	30800	25000	37400	40400	53600	52700	52400	51900	51400	48600	43400	37700
18	30600	24900	37400	40500	53200	52700	52400	52200	51400	48500	43300	37500
19	30400	24700	37400	40800	53000	52700	52500	52200	51400	48300	43100	37200
20	30200	24600	37400	41200	52800	52800	52500	52300	51300	48200	42900	37000
21	30000	24500	37700	41500	52500	53200	52500	52200	51300	48000	42700	36800
22	29700	24400	38000	45000	52300	53500	52400	52200	51200	47800	42600	36600
23	29500	24200	38200	47300	52200	53400	52400	52200	51200	47700	42300	36400
24	29300	24100	38300	48500	52200	53300	52400	52100	51100	47500	42200	36300
25	29100	24000	38500	49500	52300	54000	52300	52100	51000	47400	42000	36100
26	28900	24000	38600	51200	52500	54000	52300	52100	50900	47200	41800	36000
27	28600	23900	38800	54500	52700	53700	52300	52100	50800	47000	41600	35900
28	28400	23900	39000	56100	52600	53400	52300	52100	50700	46800	41400	35700
29	28200	23900	39200	54900	---	53200	52300	52000	50600	46700	41300	35500
30	28100	23800	39300	53900	---	52900	52300	52000	50500	46500	41100	35300
31	27900	---	39400	53300	---	52700	---	52000	---	46300	40900	---
MAX	34400	27600	39400	56100	54200	54000	52800	52300	51900	50400	46200	40700
MIN	27900	23800	24400	39500	51900	52300	52300	51800	50500	46300	40900	35300
(†)	2630.00	2624.80	2642.10	2655.32	2654.74	2654.81	2654.41	2654.13	2652.80	2648.99	2643.53	2637.91
(‡)	-6700	-4100	+15600	+13900	-700	+100	-400	-300	-1500	-4200	-5400	-5600

CAL YR 1980 † -15800

WTR YR 1981 ‡ +700

† Elevation, in feet, at end of month.

‡ Change, in contents, in acre-feet.

11480410 MAD RIVER BELOW RUTH RESERVOIR NEAR FOREST GLEN, CA

LOCATION.--Lat 40°22'16", long 123°26'06", in SW¼SW¼ sec.18, T.1 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, 1200 ft (366 m) downstream from Robert W. Matthews Dam, 5.3 mi (8.5 km) northwest of Ruth, and 5.8 mi (9.3 km) west of Forest Glen.

DRAINAGE AREA.--121 mi² (313 km²).

PERIOD OF RECORD.--October 1980 to September 1981.

GAGE.--Water-stage recorder. Altitude of gage is 2,560 ft (780 m), from topographic map.

REMARKS.--Records good except discharges below 30 ft³/s (0.85 m³/s) which are fair. Flow regulated by R. W. Matthews Dam, capacity, 51,800 acre-ft (63.9 hm³).

EXTREMES FOR CURRENT YEAR.--Maximum discharge 2,800 ft³/s (79.3 m³/s) Jan. 28, gage height 8.82 ft (2.688 m); minimum daily, 7.8 ft³/s (0.22 m³/s) Jan. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	95	31	34	676	526	518	73	46	52	78	87
2	94	95	35	34	536	401	334	64	42	52	78	87
3	96	95	36	34	459	341	282	57	39	53	76	87
4	96	94	36	34	409	478	314	54	38	52	76	86
5	96	93	34	34	372	608	305	51	38	52	77	86
6	95	93	34	34	244	617	288	83	36	52	77	87
7	95	88	34	34	75	503	266	94	37	52	77	87
8	96	82	33	36	126	436	246	81	36	48	77	90
9	96	82	33	36	157	205	226	72	35	42	78	92
10	96	82	33	36	170	162	207	66	34	43	77	92
11	95	77	33	36	184	210	194	62	35	43	83	92
12	95	71	33	36	181	228	178	45	33	46	92	92
13	95	71	33	36	649	223	166	32	34	64	92	92
14	91	71	33	36	2230	216	140	32	34	58	89	89
15	91	71	33	36	1670	229	126	32	35	50	83	87
16	92	71	33	36	1140	281	122	32	35	50	83	91
17	92	71	33	36	1040	273	120	33	35	55	83	89
18	92	71	33	36	847	256	116	48	35	65	85	92
19	92	72	33	36	694	257	133	84	35	65	84	91
20	91	72	33	37	608	268	164	86	35	68	84	91
21	91	71	34	29	523	390	160	90	35	79	84	90
22	91	72	34	24	460	538	153	98	35	77	84	90
23	92	72	34	12	411	575	139	99	35	77	84	90
24	95	55	34	8.6	399	526	121	87	35	77	84	88
25	96	31	34	7.9	405	629	120	82	35	77	84	88
26	96	31	34	7.8	445	1090	116	78	45	77	84	88
27	94	31	34	567	506	1100	97	80	52	78	84	89
28	94	31	34	2310	531	934	89	71	52	74	85	88
29	94	31	34	2180	---	783	83	62	52	72	85	88
30	95	31	34	1390	---	666	81	53	52	73	84	88
31	95	---	34	929	---	572	---	50	---	78	86	---
TOTAL	2913	2073	1043	8172.3	16147	14521	5604	2031	1155	1901	2557	2674
MEAN	94.0	69.1	33.6	264	577	468	187	65.5	38.5	61.3	82.5	89.1
MAX	96	95	36	2310	2230	1100	518	99	52	79	92	92
MIN	91	31	31	7.8	75	162	81	32	33	42	76	86
AC-FT	5780	4110	2070	16210	32030	28800	11120	4030	2290	3770	5070	5300

WTR YR 1981 TOTAL 60791.3 MEAN 167 MAX 2310 MIN 7.8 AC-FT 120600

MAD RIVER BASIN

11480500 MAD RIVER NEAR FOREST GLEN, CA

LOCATION.--Lat 40°27'30", long 123°30'35", in SW¼ sec.16, T.1 N., R.6 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, on right bank 0.7 mi (1.1 km) downstream from Lamb Creek, and 11.1 mi (17.9 km) northwest of Forest Glen.

DRAINAGE AREA.--143 mi² (370 km²).

PERIOD OF RECORD.--June 1953 to current year.

REVISED RECORDS.--WSP 1395: 1954. WSP 1715: 1957(M), 1958(P).

GAGE.--Water-stage recorder. Datum of gage is 2,408.18 ft (734.013 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 22, 1955, water-stage recorder at site 0.7 mi (1.1 km) upstream at different datum. Jan. 13 to June 18, 1956, nonrecording gage at former site at datum 4.17 ft (1.271 m) lower than former datum.

REMARKS.--Records good. Flow regulated by Ruth Reservoir (station 11480400), 9 mi (14 km) upstream, beginning in July 1961. No diversion above station.

AVERAGE DISCHARGE.--28 years, 369 ft³/s (10.45 m³/s), 267,300 acre-ft/yr (330 hm³/yr) (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,200 ft³/s (1,110 m³/s) Dec. 22, 1955, gage height, 24.5 ft (7.468 m) present datum, from floodmarks, from rating curve extended above 8,100 ft³/s (229 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.60 ft³/s (0.017 m³/s) Sept. 15, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,070 ft³/s (86.9 m³/s) Jan. 28, gage height, 8.03 ft (2.448 m); minimum daily, 38 ft³/s (1.08 m³/s) Nov. 26-28, June 20-22, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	97	43	50	802	647	633	100	63	59	82	83
2	99	98	369	48	632	524	451	91	57	59	81	82
3	102	96	392	50	531	391	328	86	53	58	81	82
4	102	96	222	49	464	564	355	79	49	58	82	82
5	102	96	91	47	419	676	346	74	48	58	81	81
6	102	96	74	46	338	733	322	85	46	59	83	81
7	102	100	67	46	104	593	300	108	45	59	83	81
8	102	91	59	44	148	506	282	98	46	58	83	82
9	102	91	54	44	173	339	264	90	44	48	83	86
10	102	90	50	44	184	190	241	85	42	46	83	86
11	103	87	50	44	201	235	222	82	42	46	84	86
12	104	81	48	44	195	254	210	72	42	46	93	86
13	104	81	46	44	1020	248	193	50	42	66	93	86
14	102	82	46	44	2560	238	181	49	41	67	92	85
15	99	81	44	44	1900	286	163	50	41	54	87	81
16	98	81	44	45	1350	331	146	48	40	54	87	86
17	98	81	44	62	1210	312	141	54	40	54	86	85
18	96	81	44	80	994	296	136	77	40	69	85	86
19	96	81	42	89	845	295	129	100	39	70	85	86
20	96	81	42	103	745	329	134	100	38	70	85	86
21	96	83	61	104	629	522	173	104	38	80	85	86
22	96	85	55	781	545	633	176	105	38	80	85	86
23	96	83	49	295	482	665	168	111	39	79	83	86
24	98	79	47	122	489	595	153	100	39	81	83	85
25	97	41	66	85	490	758	148	98	38	81	83	85
26	96	38	57	96	577	1280	134	91	40	81	83	86
27	96	38	61	1000	645	1310	125	95	59	81	83	91
28	96	38	61	2740	661	1100	123	87	59	80	83	86
29	96	44	54	2480	---	947	110	80	59	77	81	85
30	96	43	51	1600	---	810	102	71	59	77	81	85
31	96	---	50	1090	---	697	---	67	---	82	81	---
TOTAL	3070	2340	2483	11460	19333	17304	6589	2587	1366	2037	2610	2540
MEAN	99.0	78.0	80.1	370	690	558	220	83.5	45.5	65.7	84.2	84.7
MAX	104	100	392	2740	2560	1310	633	111	63	82	93	91
MIN	96	38	42	44	104	190	102	48	38	46	81	81
AC-FT	6090	4640	4930	22730	38350	34320	13070	5130	2710	4040	5180	5040
CAL YR 1980	TOTAL	150625	MEAN 412	MAX 9460	MIN 38	AC-FT 298800						
WTR YR 1981	TOTAL	73719	MEAN 202	MAX 2740	MIN 38	AC-FT 146200						

11481000 MAD RIVER NEAR ARCATA, CA

LOCATION.--Lat 40°54'35", long 124°03'35", in NW¼ sec.15, T.6 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on right bank 100 ft (30 m) upstream from bridge on U.S. Highway 299, 1.0 mi (1.6 km) downstream from Warren Creek, and 2.8 mi (4.5 km) northeast of Arcata.

DRAINAGE AREA.--485 mi² (1,256 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to September 1913, August 1950 to current year. Monthly discharge only for some periods published in WSP 1315-B.

REVISED RECORDS.--WDR CA-72-1: 1965(M).

GAGE.--Water-stage recorder. Datum of gage is 12.79 ft (3.898 m) National Geodetic Vertical Datum of 1929. December 1910 to September 1913, nonrecording gage at site 0.1 mi (0.2 km) upstream at different datum. Aug. 15, 1950, to July 23, 1956, water-stage recorder at site 0.6 mi (1.0 km) upstream at datum 11.00 ft (3.353 m) higher. July 24, 1956, to Apr. 9, 1965, water-stage recorder at datum 5.00 ft (1.524 m) higher. Aug. 29 to Oct. 26, 1961, auxiliary water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good except those for summer months, which are fair. Flow regulated by Ruth Reservoir (station 11480400), 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).--34 years, 1,473 ft³/s (41.72 m³/s), 1,067,000 acre-ft/yr (1.32 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,000 ft³/s (2,290 m³/s) Dec. 22, 1964, gage height, 30.7 ft (9.36 m) present datum, from high-water profile; minimum daily, 0.10 ft³/s (0.003 m³/s) Aug. 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,800 ft³/s (306 m³/s) Jan. 28, gage height, 11.09 ft (3.380 m); minimum daily, 6.6 ft³/s (0.19 m³/s) Aug. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	50	172	290	2550	2020	2840	285	253	44	14	9.1
2	34	62	958	250	2060	1850	2460	262	227	51	17	11
3	24	62	2990	229	1770	1590	1910	240	206	60	18	12
4	22	53	6080	264	1560	2840	1640	225	191	60	18	9.4
5	35	46	2500	227	1420	2500	1500	203	176	60	19	13
6	46	47	1810	197	1290	2230	1380	185	162	55	25	15
7	51	88	1230	176	1090	2020	1230	179	159	53	18	15
8	49	213	841	160	790	1810	1110	211	175	48	13	14
9	47	161	617	146	784	1570	1030	194	183	43	11	13
10	46	112	471	131	770	1230	926	178	151	42	9.5	15
11	52	82	386	121	769	1050	839	161	130	39	6.6	21
12	60	67	323	113	806	1010	774	151	132	40	9.5	19
13	93	55	270	109	2040	1220	690	140	140	41	13	17
14	105	46	232	103	7530	1250	632	126	134	35	17	31
15	157	45	202	98	4930	1200	562	122	112	43	18	36
16	81	41	192	98	4430	1920	501	134	96	32	19	34
17	55	40	167	105	5350	1660	468	126	93	16	15	35
18	47	36	151	127	3530	1430	443	1000	84	8.3	15	34
19	46	34	136	186	3770	1350	518	1350	74	9.1	21	36
20	43	30	120	393	4110	1500	683	852	67	8.0	16	38
21	41	37	137	404	2920	1710	585	613	64	9.1	19	37
22	40	80	312	4610	2270	2900	510	489	56	8.3	16	32
23	43	146	274	4810	1920	2370	463	414	49	10	17	21
24	45	133	247	2640	2450	2010	427	397	45	11	15	28
25	60	113	308	1740	2240	3210	409	641	41	11	11	39
26	55	80	535	1600	2340	7450	487	695	37	13	9.2	42
27	48	37	575	5220	2420	6160	440	515	35	13	10	60
28	46	22	743	8750	2220	4510	381	430	33	13	9.6	109
29	47	32	535	8140	---	4090	340	352	31	13	9.5	68
30	44	120	412	5110	---	3560	308	309	33	11	8.8	51
31	47	---	339	3430	---	2820	---	277	---	13	8.3	---
TOTAL	1639	2170	24265	49977	70129	74040	26486	11456	3369	912.8	446.0	914.5
MEAN	52.9	72.3	783	1612	2505	2388	883	370	112	29.4	14.4	30.5
MAX	157	213	6080	8750	7530	7450	2840	1350	253	60	25	109
MIN	22	22	120	98	769	1010	308	122	31	8.0	6.6	9.1
AC-FT	3250	4300	48130	99130	139100	146900	52530	22720	6680	1810	885	1810
(‡)	5300	5050	5080	5250	4510	5230	4800	5390	5640	5240	5790	5200
CAL YR 1980	TOTAL	443253.0	MEAN	1211	MAX	18100	MIN	13	AC-FT	879200	(‡)	63,780
WTR YR 1981	TOTAL	265804.3	MEAN	728	MAX	8750	MIN	6.6	AC-FT	527200	(‡)	62,480

‡ Diversion, in acre-feet, for municipal supply and industrial use; furnished by Humboldt Municipal Water District.

MAD RIVER BASIN

11481000 MAD RIVER NEAR ARCATA, CA--Continued

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.

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 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM FLOW, INST-CFS	SPECIFIC COND MICROMHO	PH FIELD (UNITS)	TEMP WATER (DEG C)	TURB- IDITY (NTU)	OXYGEN DISS (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM CA,DISS (MG/L)	POTASSIUM K,DISS (MG/L)	SODIUM NA,DISS (MG/L)
80/11/10	15 05	79	187	8.5		2.0	12.1				
81/01/04	15 35	252	176	8.3	11.0	3.0	12.1				
81/03/02	15 10	1820	115	7.5	11.0	18	11.6				
81/05/11	14 50	183	175	8.4	20.0	1.0	10.3				
81/07/13	14 20		227	8.1	23.0	1.0	9.6				
81/09/15	14 10	36	208	8.1	19.0	4.0	10.9	93	29	5	5

DATE	TIME	POTASSIUM K,DISS (MG/L)	ALKA- LITY (MG/L)	CHLORIDE TOTAL (MG/L)	BORON B,DISS (UG/L)
80/11/10	15 05				
81/01/04	15 35				
81/03/02	15 10				
81/05/11	14 50				
81/07/13	14 20				
81/09/15	14 10	1.0	87	3	100

11481200 LITTLE RIVER NEAR TRINIDAD, CA

LOCATION.--Lat 41°00'40", long 124°04'50", in NE¼ sec.8, T.7 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on right bank 0.5 mi (0.8 km) upstream from Coon Creek, 4.7 mi (7.6 km) southeast of Trinidad, and 9.1 mi (14.6 km) north of Arcata.

DRAINAGE AREA.--40.5 mi² (104.9 km²).

PERIOD OF RECORD.--October 1955 to current year. Prior to October 1971, published as "at Crannell."

REVISED RECORDS.--WSP 2129: 1956-60. WDR CA-78-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 17.62 ft (5.371 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--26 years, 139 ft³/s (3.936 m³/s), 100,700 acre-ft/yr (124 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft³/s (278 m³/s) Mar. 18, 1975, gage height, 14.19 ft (4.325 m), from rating curve extended above 3,100 ft³/s (87.8 m³/s) on basis of slope-area measurement at gage height 14.08 ft (4.292 m); minimum daily, 2.8 ft³/s (0.079 m³/s) Oct. 20-22, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 17, 18, 1953, reached a stage of 15.7 ft (4.79 m), observed by an employee of Hammond Lumber Co.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,680 ft³/s (104 m³/s) Jan. 22 (1515 hrs), gage height, 7.71 ft (2.350 m), no other peak above base of 3,000 ft³/s (85.0 m³/s); minimum daily, 4.6 ft³/s (0.13 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	8.5	480	48	187	138	299	32	32	14	8.1	5.7
2	4.9	12	1500	42	146	116	224	31	30	14	8.8	5.7
3	4.8	9.5	950	44	122	107	177	30	28	14	8.8	5.5
4	4.8	8.2	391	39	102	275	145	28	26	14	8.2	5.5
5	5.3	7.7	327	40	97	177	124	27	25	13	8.0	5.5
6	5.9	7.5	256	33	91	140	110	26	25	13	8.0	5.5
7	5.0	38	171	30	80	124	99	26	29	13	7.8	5.2
8	4.7	31	110	28	69	107	90	26	43	12	7.6	5.2
9	4.7	25	77	27	66	92	86	25	39	12	7.6	5.2
10	4.6	22	60	26	60	82	77	24	31	11	7.6	5.2
11	5.4	15	50	24	56	76	71	24	27	11	7.4	5.2
12	7.8	12	43	24	54	69	68	23	28	11	7.4	5.2
13	11	11	38	24	330	73	62	22	29	11	7.4	5.2
14	17	10	34	21	565	66	58	22	27	11	7.2	5.2
15	14	10	31	21	254	134	55	27	24	11	7.2	5.2
16	11	9.3	29	20	471	196	51	26	22	11	7.0	5.2
17	8.5	8.9	27	22	415	140	48	25	21	11	6.8	5.2
18	7.1	8.5	25	21	274	116	47	215	21	12	6.8	5.2
19	6.6	8.3	25	28	456	113	67	102	20	12	6.6	5.5
20	6.3	8.2	24	28	431	133	64	61	19	11	6.6	5.5
21	6.3	12	34	26	289	161	52	46	18	10	6.4	5.5
22	6.3	32	42	1470	208	276	47	40	18	10	6.2	5.2
23	6.0	29	37	461	170	178	44	36	17	9.9	6.2	5.2
24	6.9	24	31	275	262	140	43	36	17	9.2	6.2	4.9
25	9.3	18	63	190	210	373	41	122	17	9.2	6.2	4.9
26	8.2	14	57	164	222	879	46	83	17	9.1	6.0	4.9
27	8.7	12	161	631	205	544	40	58	16	8.7	6.0	6.4
28	7.9	11	132	570	166	317	37	47	16	8.4	6.0	27
29	7.1	35	90	619	---	263	35	41	15	8.5	6.0	20
30	6.6	130	75	380	---	218	33	37	14	8.4	6.0	12
31	6.3	---	60	240	---	210	---	35	---	8.1	5.7	---
TOTAL	223.9	587.6	5430	5616	6058	6033	2440	1403	711	341.5	217.8	202.8
MEAN	7.22	19.6	175	181	216	195	81.3	45.3	23.7	11.0	7.03	6.76
MAX	17	130	1500	1470	565	879	299	215	43	14	8.8	27
MIN	4.6	7.5	24	20	54	66	33	22	14	8.1	5.7	4.9
AC-FT	444	1170	10770	11140	12020	11970	4840	2780	1410	677	432	402
CAL YR 1980 TOTAL	43598.6			MEAN 119	MAX 3270	MIN 4.6	AC-FT 86480					
WTR YR 1981 TOTAL	29264.6			MEAN 80.2	MAX 1500	MIN 4.6	AC-FT 58050					

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA

LOCATION.--Lat 40°54'22", long 123°48'51", in SE¼NE¼ sec.15, T.6 N., R.3 E., Humboldt County, Hydrologic Unit 18010102, on right bank 400 ft (122 m) upstream from Lupton Creek, and 9.1 mi (14.6 km) east of town of Blue Lake.

DRAINAGE AREA.--67.7 mi² (175.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1953 to September 1958, October 1972 to current year.

REVISED RECORDS.--WDR CA-78-2: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 850 ft (259 m), from topographic map.

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

AVERAGE DISCHARGE.--14 years, 249 ft³/s (7.052 m³/s), 180,400 acre-ft/yr (222 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s (346 m³/s) Mar. 18, 1975, gage height, 13.70 ft (4.176 m); from rating curve extended above 6,400 ft³/s (181 m³/s); minimum daily, 2.6 ft³/s (0.074 m³/s) Aug. 24, Sept. 11-15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (54 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 2	1800	*3410 96.6	8.12 2.475
Jan. 27	1230	2220 62.9	7.05 2.149

Minimum daily discharge, 4.5 ft³/s (0.13 m³/s) Sept. 14-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	12	67	85	316	288	480	89	68	26	9.4	6.1
2	5.8	17	1200	74	274	275	427	86	63	26	9.4	6.1
3	5.5	14	1330	89	245	254	392	78	60	25	9.4	6.1
4	5.3	12	893	81	223	400	354	74	58	24	9.4	5.8
5	5.4	12	385	70	213	317	327	75	54	24	9.4	5.8
6	5.4	12	314	68	196	282	310	75	54	23	9.4	5.4
7	5.4	24	228	58	174	275	283	73	55	23	8.5	5.1
8	5.4	28	184	55	160	260	263	71	60	22	7.6	4.8
9	5.4	28	147	53	153	237	251	70	60	22	7.2	4.8
10	5.3	26	126	50	147	221	234	66	55	21	6.9	4.8
11	6.5	22	109	47	160	211	221	64	51	21	6.9	4.8
12	15	19	100	45	178	199	208	61	54	20	6.9	4.8
13	26	18	89	43	844	212	194	60	57	20	6.9	4.6
14	54	16	79	42	1010	212	182	57	55	18	6.9	4.5
15	40	16	85	40	497	269	175	64	50	18	6.9	4.5
16	24	15	85	39	834	354	167	64	44	17	6.9	4.5
17	18	14	77	45	723	294	161	69	41	16	6.5	4.5
18	16	14	63	48	476	264	156	239	37	16	6.5	4.5
19	14	14	55	98	733	263	192	186	35	15	6.5	4.7
20	14	13	51	104	664	275	183	130	34	14	6.5	4.8
21	12	18	118	107	483	328	166	103	32	14	6.5	4.8
22	12	48	131	922	409	436	154	89	31	13	6.5	4.8
23	11	40	98	620	363	338	146	80	30	13	6.5	4.8
24	11	36	83	411	411	297	143	76	30	12	6.9	4.8
25	15	28	134	304	348	635	150	150	29	11	6.9	4.8
26	14	23	124	346	377	1000	152	124	28	11	6.9	5.7
27	12	22	162	1170	345	787	136	99	28	10	6.9	26
28	12	20	174	1370	314	625	125	85	27	9.9	6.9	25
29	10	32	137	811	---	696	107	78	27	9.9	6.5	14
30	10	53	114	522	---	578	100	73	27	9.9	6.1	10
31	9.4	---	98	391	---	497	---	71	---	9.9	6.1	---
TOTAL	410.6	666	7040	8208	11270	11579	6539	2779	1334	534.6	226.7	205.7
MEAN	13.2	22.2	227	265	403	374	218	89.6	44.5	17.2	7.31	6.86
MAX	54	53	1330	1370	1010	1000	480	239	68	26	9.4	26
MIN	5.3	12	51	39	147	199	100	57	27	9.9	6.1	4.5
AC-FT	814	1320	13960	16280	22350	22970	12970	5510	2650	1060	450	408
CAL YR 1980 TOTAL	81270.8			MEAN 222	MAX 2860	MIN 5.3	AC-FT 161200					
WTR YR 1981 TOTAL	50792.6			MEAN 139	MAX 1370	MIN 4.5	AC-FT 100700					

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

WATER-QUALITY RECORDS

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

CHEMICAL ANALYSES: Water years 1974-75.

WATER TEMPERATURES: Water years 1973 to current year.

SEDIMENT RECORDS: Water years 1973 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1972 to current year.

SEDIMENT RECORDS.--October 1972 to current year.

INSTRUMENTATION.--Temperature recorder October 1972 to September 30, 1980.

REMARKS.--Zero bedload discharge observed at flows less than 154 ft³/s (4.36 m³/s).

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 33.5°C Aug. 2, 1977; minimum recorded, 0.5°C Jan. 9, 1977.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 11,200 mg/L Mar. 18, 1975; minimum daily mean, 0 mg/L on several days in 1976 and Oct. 5-8, 1980.

SEDIMENT DISCHARGE: Maximum daily, 276,000 tons (250,000 metric tons) Mar. 18, 1975; minimum daily, 0 ton (0 metric ton) on several days in 1976 and Oct. 5-8, 1980.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum observed, 28.0°C June 29, July 25; minimum observed, 3.5°C Dec. 14.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,880 mg/L Dec. 3; minimum daily mean, 0 mg/L Oct. 5-8.

SEDIMENT DISCHARGE: Maximum daily, 10,200 tons (9,250 metric tons) Dec. 2; minimum daily, 0 ton (0 metric ton) Oct. 5-8.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	12.5	6.0	7.5	---	10.0	9.0	17.0	18.5	---	---	---
2	---	14.0	10.0	5.5	6.5	10.0	9.5	---	---	27.0	---	---
3	---	12.0	11.0	9.5	7.5	9.5	6.5	---	---	---	---	---
4	---	10.0	7.5	8.0	8.5	8.0	12.0	---	---	---	---	---
5	---	---	7.0	5.0	6.5	8.5	12.0	---	---	---	27.0	23.0
6	---	14.0	7.0	---	4.5	9.0	---	15.5	20.5	---	---	---
7	22.5	13.5	---	---	---	9.5	10.5	---	16.5	23.5	---	---
8	---	12.5	---	9.0	---	---	10.5	---	17.0	---	---	---
9	---	12.0	---	---	---	8.5	8.5	14.5	13.0	---	---	23.0
10	18.5	11.0	---	9.0	7.5	11.0	9.0	---	---	---	---	---
11	18.5	---	---	---	8.5	---	---	---	---	---	27.5	---
12	---	---	4.5	6.0	---	11.0	9.5	---	---	---	---	---
13	14.5	---	---	---	10.0	9.5	---	16.0	23.5	25.0	---	---
14	14.5	9.0	3.5	5.5	9.0	---	---	---	---	---	---	---
15	14.0	10.0	---	---	9.5	9.0	---	---	---	---	---	---
16	---	9.0	---	8.0	10.5	10.0	---	---	---	---	---	---
17	---	---	8.5	---	8.5	8.5	13.5	14.0	---	---	---	---
18	---	---	---	---	11.0	9.5	---	12.5	---	---	---	23.0
19	---	---	---	11.5	10.5	10.0	10.0	12.5	23.5	26.0	20.5	---
20	14.0	9.5	8.5	8.0	7.0	9.0	13.5	14.5	---	---	---	---
21	---	9.0	11.0	10.5	---	10.5	15.5	---	---	---	---	---
22	---	11.0	10.0	11.0	11.5	9.5	---	16.5	23.0	---	---	---
23	---	11.0	8.5	8.5	9.0	11.5	16.5	---	---	---	---	---
24	13.5	6.5	9.5	7.5	7.5	12.5	12.0	---	---	---	---	---
25	12.5	5.5	---	7.5	6.5	10.0	11.5	15.5	---	28.0	---	---
26	12.5	5.0	10.0	7.5	8.0	7.0	---	---	23.5	---	---	18.0
27	---	---	11.0	8.5	9.0	7.5	---	---	---	---	---	18.5
28	---	---	10.0	8.0	9.5	12.0	---	---	---	---	---	---
29	14.0	8.5	9.5	7.5	---	9.0	17.5	---	28.0	---	---	---
30	---	8.5	6.5	6.5	---	9.5	18.0	---	---	---	---	19.0
31	12.5	---	---	6.0	---	9.0	---	20.5	---	25.5	23.5	---
MONTH	---	---	---	---	8.5	9.5	---	---	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	5.8	1	.02	12	5	.16	67	30	5.5
2	5.8	1	.02	17	1	.05	1200	1830	10200
3	5.5	1	.01	14	1	.04	1330	1880	8270
4	5.3	1	.01	12	5	.16	893	760	1830
5	5.4	0	0	12	2	.06	385	76	79
6	5.4	0	0	12	1	.03	314	42	36
7	5.4	0	0	24	40	2.6	228	18	11
8	5.4	0	0	28	10	.76	184	11	5.5
9	5.4	1	.01	28	4	.30	147	7	2.8
10	5.3	4	.06	26	1	.07	126	5	1.7
11	6.5	3	.05	22	1	.06	109	5	1.5
12	15	2	.08	19	1	.05	100	4	1.1
13	26	13	.91	18	1	.05	89	3	.72
14	54	22	3.2	16	1	.04	79	3	.64
15	40	13	1.4	16	1	.04	85	3	.69
16	24	10	.65	15	1	.04	85	3	.69
17	18	7	.34	14	1	.04	77	2	.42
18	16	5	.22	14	1	.04	63	2	.34
19	14	3	.11	14	1	.04	55	2	.30
20	14	1	.04	13	1	.04	51	3	.41
21	12	1	.03	18	8	.39	118	19	8.0
22	12	1	.03	48	5	.65	131	13	4.6
23	11	2	.06	40	4	.43	98	5	1.3
24	11	2	.06	36	3	.29	83	3	.67
25	15	2	.08	28	2	.15	134	18	6.9
26	14	4	.15	23	2	.12	124	8	2.7
27	12	2	.06	22	1	.06	162	34	17
28	12	1	.03	20	1	.05	174	10	4.7
29	10	1	.03	32	33	3.1	137	4	1.5
30	10	1	.03	53	34	5.1	114	3	.92
31	9.4	1	.03	---	---	---	98	3	.79
TOTAL	410.6	---	7.72	666	---	15.01	7040	---	20497.39
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	85	3	.69	316	20	17	288	9	7.0
2	74	2	.40	274	15	11	275	11	8.2
3	89	2	.48	245	14	9.3	254	13	8.9
4	81	2	.44	223	9	5.4	400	59	68
5	70	2	.38	213	8	4.6	317	13	11
6	68	2	.37	196	7	3.7	282	10	7.6
7	58	2	.31	174	6	2.8	275	12	8.9
8	55	1	.15	160	5	2.2	260	10	7.0
9	53	1	.14	153	4	1.7	237	6	3.8
10	50	3	.41	147	3	1.2	221	6	3.6
11	47	2	.25	160	4	1.7	211	7	4.0
12	45	1	.12	178	3	1.4	199	8	4.3
13	43	2	.23	844	911	2930	212	8	4.6
14	42	2	.23	1010	565	1950	212	6	3.4
15	40	2	.22	497	100	134	269	19	17
16	39	2	.21	834	575	2140	354	28	27
17	45	3	.36	723	280	547	294	14	11
18	48	3	.39	476	85	109	264	10	7.1
19	98	14	4.5	733	259	632	263	10	7.1
20	104	9	2.5	664	110	197	275	21	16
21	107	8	2.3	483	40	52	328	35	37
22	922	1250	3780	409	30	33	436	72	88
23	620	300	502	363	24	24	338	31	28
24	411	100	111	411	35	39	297	17	14
25	304	40	33	348	23	22	635	269	549
26	346	87	86	377	23	23	1000	460	1260
27	1170	1210	4560	345	23	21	787	185	393
28	1370	1080	4220	314	15	13	625	95	160
29	811	200	438	---	---	---	696	162	307
30	522	70	99	---	---	---	578	70	109
31	391	30	32	---	---	---	497	60	81
TOTAL	8208	---	13876.08	11270	---	8928.0	11579	---	3261.5

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	480	45	58	89	3	.72	68	3	.55	
2	427	31	36	86	3	.70	63	2	.34	
3	392	16	17	78	2	.42	60	2	.32	
4	354	13	12	74	2	.40	58	2	.31	
5	327	10	8.8	75	2	.41	54	1	.15	
6	310	8	6.7	75	2	.41	54	1	.15	
7	283	10	7.6	73	2	.39	55	1	.15	
8	263	8	5.7	71	2	.38	60	2	.32	
9	251	11	7.5	70	2	.38	60	2	.32	
10	234	9	5.7	66	2	.36	55	2	.30	
11	221	7	4.2	64	2	.35	51	1	.14	
12	208	4	2.2	61	2	.33	54	2	.29	
13	194	4	2.1	60	2	.32	57	3	.46	
14	182	6	2.9	57	2	.31	55	2	.30	
15	175	5	2.4	64	2	.35	50	2	.27	
16	167	4	1.8	64	2	.35	44	2	.24	
17	161	3	1.3	69	8	1.5	41	2	.22	
18	156	3	1.3	239	65	46	37	3	.30	
19	192	9	4.7	186	10	5.0	35	7	.66	
20	183	5	2.5	130	3	1.1	34	4	.37	
21	166	3	1.3	103	2	.56	32	3	.26	
22	154	3	1.2	89	1	.24	31	3	.25	
23	146	4	1.6	80	1	.22	30	3	.24	
24	143	5	1.9	76	1	.21	30	2	.16	
25	150	4	1.6	150	7	2.8	29	2	.16	
26	152	4	1.6	124	4	1.3	28	4	.30	
27	136	4	1.5	99	3	.80	28	3	.23	
28	125	4	1.4	85	2	.46	27	3	.22	
29	107	4	1.2	78	2	.42	27	3	.22	
30	100	2	.54	73	2	.39	27	3	.22	
31	---	---	---	71	2	.38	---	---	---	
TOTAL	6539	---	204.24	2779	---	67.96	1334	---	8.42	
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	26	3	.21	9.4	2	.05	6.1	1	.02	
2	26	4	.28	9.4	2	.05	6.1	1	.02	
3	25	3	.20	9.4	3	.08	6.1	2	.03	
4	24	3	.19	9.4	3	.08	5.8	2	.03	
5	24	2	.13	9.4	3	.08	5.8	2	.03	
6	23	2	.12	9.4	2	.05	5.4	2	.03	
7	23	2	.12	8.5	2	.05	5.1	2	.03	
8	22	2	.12	7.6	2	.04	4.8	2	.03	
9	22	2	.12	7.2	2	.04	4.8	5	.06	
10	21	2	.11	6.9	2	.04	4.8	4	.05	
11	21	2	.11	6.9	2	.04	4.8	3	.04	
12	20	2	.11	6.9	2	.04	4.8	2	.03	
13	20	2	.11	6.9	2	.04	4.6	2	.02	
14	18	2	.10	6.9	2	.04	4.5	1	.01	
15	18	2	.10	6.9	2	.04	4.5	1	.01	
16	17	2	.09	6.9	1	.02	4.5	1	.01	
17	16	2	.09	6.5	1	.02	4.5	1	.01	
18	16	2	.09	6.5	1	.02	4.5	1	.01	
19	15	2	.08	6.5	1	.02	4.7	1	.01	
20	14	2	.08	6.5	1	.02	4.8	1	.01	
21	14	2	.08	6.5	1	.02	4.8	1	.01	
22	13	2	.07	6.5	1	.02	4.8	1	.01	
23	13	2	.07	6.5	1	.02	4.8	1	.01	
24	12	2	.06	6.9	1	.02	4.8	1	.01	
25	11	2	.06	6.9	1	.02	4.8	1	.01	
26	11	2	.06	6.9	1	.02	5.7	4	.06	
27	10	2	.05	6.9	1	.02	26	19	1.3	
28	9.9	2	.05	6.9	1	.02	25	7	.47	
29	9.9	2	.05	6.5	1	.02	14	5	.19	
30	9.9	2	.05	6.1	1	.02	10	3	.08	
31	9.9	2	.05	6.1	1	.02	---	---	---	
TOTAL	534.6	---	3.21	226.7	---	1.08	205.7	---	2.64	
YEAR	50792.6		46873.25							

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1980	410.60	7.72	0	8
NOVEMBER ...	666.00	15.01	0	15
DECEMBER ...	7040.00	20497.39	1730	22200
JANUARY 1981	8208.00	13876.08	2220	16100
FEBRUARY ...	11270.00	8928.00	1700	10600
MARCH	11579.00	3261.50	1320	4580
APRIL	6539.00	204.24	170	374
MAY	2779.00	67.96	3	71
JUNE	1334.00	8.42	0	8
JULY	534.60	3.21	0	3
AUGUST	226.70	1.08	0	1
SEPTEMBER ..	205.70	2.64	0	3
TOTAL	50792.60	46873.25	7143	53963

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 .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 02...	1540	10.0	1490	1850	7440	26	34	45	59	--
JAN 22...	0810	10.5	982	2340	6200	24	31	44	57	--
JAN 27...	1130	7.5	1930	2440	12700	20	26	35	43	--
FEB 13...	1730	9.5	1190	1020	3280	37	52	64	84	92
FEB 16...	1800	10.5	1760	1560	7410	26	36	48	64	76
MAR 26...	1105	7.0	963	416	1080	--	--	--	--	--
APR 02...	1320	9.0	427	34	39	--	--	--	--	--
MAY 18...	1010	12.0	285	168	129	--	--	--	--	--

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
DEC 02...	70	--	81	--	93	--	99	100	--
JAN 22...	68	--	81	--	93	--	99	100	--
JAN 27...	53	--	64	--	79	--	93	99	99
FEB 13...	--	97	--	100	--	--	--	--	--
FEB 16...	--	88	--	98	--	100	--	--	--
MAR 26...	51	--	52	--	59	--	71	86	93
APR 02...	69	--	75	--	84	--	96	100	--
MAY 18...	88	--	92	--	96	--	100	--	--

11482110 LACKS CREEK NEAR ORICK, CA

LOCATION.--Lat 41°03'39", long 123°51'57", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank at private road bridge, 0.3 mi (0.5 km) upstream from mouth, and 19 mi (31 km) southeast of Orick.

DRAINAGE AREA.--16.9 mi² (43.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to September 1981.

GAGE.--Water-stage recorder. Altitude of gage is 480 ft (146 m), from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,450 ft³/s (41.1 m³/s) Dec. 2 (time unknown), gage height, 28.00 ft (8.534 m), no other peak above base of 1,100 ft³/s (31.2 m³/s); minimum, 0.38 ft³/s (0.011 m³/s) Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	3.5	190	36	112	81	144	14	15	3.7	1.2	.64
2	.42	6.0	750	31	89	68	125	14	14	3.5	1.3	.62
3	.40	3.2	400	28	73	60	105	13	12	3.4	1.4	.59
4	.40	2.4	265	25	62	133	88	12	12	3.4	1.4	.56
5	.41	2.1	188	24	57	93	74	12	11	3.3	1.4	.54
6	.44	1.9	175	24	52	78	65	11	10	3.1	1.2	.53
7	.47	27	140	24	45	69	56	11	11	2.9	1.2	.51
8	.40	20	110	22	41	59	49	10	14	2.8	1.1	.50
9	.39	13	86	21	36	50	44	10	12	2.7	1.1	.48
10	.38	9.5	70	20	32	44	40	10	11	2.7	1.0	.46
11	.85	6.8	58	19	31	40	35	9.6	10	2.7	.99	.45
12	2.6	5.4	50	19	30	36	33	9.2	11	2.7	1.0	.45
13	4.2	4.6	43	18	297	36	30	8.7	12	2.5	1.0	.45
14	12	4.2	37	18	370	34	26	8.7	11	2.4	1.0	.44
15	5.0	3.8	34	17	195	88	24	9.8	9.5	2.4	1.0	.44
16	2.7	3.6	31	16	271	120	22	9.4	8.6	2.2	.99	.45
17	2.0	3.3	29	16	243	89	21	9.3	8.2	2.2	.98	.47
18	1.7	3.1	26	15	172	76	20	42	7.7	2.2	.96	.49
19	1.5	2.9	25	19	209	78	33	25	6.5	2.1	.96	.50
20	1.3	2.9	23	18	204	89	28	21	5.9	2.0	.95	.51
21	1.3	6.5	56	16	154	125	24	18	5.7	2.0	.94	.52
22	1.2	32	49	515	116	180	21	16	5.4	1.8	.93	.50
23	1.1	17	42	181	94	130	20	15	5.2	1.8	.92	.54
24	1.5	14	35	113	127	101	19	15	5.2	1.6	.89	.54
25	2.0	10	65	85	97	211	19	39	4.9	1.5	.87	.54
26	1.7	8.2	49	106	136	510	19	31	4.7	1.5	.85	1.5
27	1.6	6.8	74	424	121	352	18	25	4.5	1.4	.82	23
28	1.4	6.0	65	487	99	226	17	22	4.2	1.3	.78	13
29	1.3	17	55	387	---	194	16	20	4.0	1.3	.75	4.2
30	1.2	22	47	224	---	167	15	18	3.9	1.3	.72	2.5
31	1.1	---	40	152	---	145	---	17	---	1.2	.68	---
TOTAL	53.38	268.7	3307	3120	3565	3762	1250	505.7	260.1	71.6	31.28	56.92
MEAN	1.72	8.96	107	101	127	121	41.7	16.3	8.67	2.31	1.01	1.90
MAX	12	32	750	515	370	510	144	42	15	3.7	1.4	23
MIN	.38	1.9	23	15	30	34	15	8.7	3.9	1.2	.68	.44
AC-FT	106	533	6560	6190	7070	7460	2480	1000	516	142	62	113

WTR YR 1981 TOTAL 16251.68 MEAN 44.5 MAX 750 MIN .38 AC-FT 32240

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 at private road bridge, 0.3 mi (0.5 km) upstream from mouth, and 19 mi (31 km) southeast of Orick.

DRAINAGE AREA.--16.9 mi² (43.8 km²).

PERIOD OF RECORD.--Water years 1975-76, 1978 to current year.

CHEMICAL ANALYSES: Water years 1975-76, 1978.

SEDIMENT RECORDS: Water years 1975, 1978 to current year.

REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies," Data Release Number 2.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
OCT 09...	1415	18.0	.38	1	.00	--	--	--
NOV 06...	1145	12.5	1.9	2	.01	--	--	--
28...	1630	7.0	5.6	1	.02	--	--	--
JAN 05...	1420	7.0	25	3	.20	--	--	--
22...	1110	11.0	385	1980	2060	--	36	46
22...	1555	11.0	607	1520	2490	18	23	30
23...	1230	10.0	172	69	32	--	--	--
FEB 04...	1230	7.5	62	19	3.2	--	--	--
MAR 03...	1500	10.0	54	7	1.0	--	--	--
APR 07...	1220	9.5	56	5	.76	--	--	--
14...	1310	13.0	27	7	.51	--	--	--
MAY 07...	1410	16.0	11	7	.21	--	--	--
JUN 11...	1415	16.5	10	2	.05	--	--	--
JUL 10...	1410	22.0	2.7	3	.02	--	--	--
AUG 07...	1315	25.5	1.2	2	.01	--	--	--
SEP 11...	1130	18.5	.45	8	.01	--	--	--

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 09...	--	--	--	--	--	--	--	--
NOV 06...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--
JAN 05...	--	--	--	--	--	--	--	--
22...	60	73	82	87	92	98	99	100
22...	38	46	52	58	66	79	93	100
23...	--	--	80	--	--	--	--	--
FEB 04...	--	--	90	--	--	--	--	--
MAR 03...	--	--	--	--	--	--	--	--
APR 07...	--	--	--	--	--	--	--	--
14...	--	--	77	--	--	--	--	--
MAY 07...	--	--	--	--	--	--	--	--
JUN 11...	--	--	--	--	--	--	--	--
JUL 10...	--	--	74	--	--	--	--	--
AUG 07...	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--

REDWOOD CREEK BASIN

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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, 16 mi (25.7 km) southeast of Orick, and 28 mi (45.1 km) upstream from mouth.

DRAINAGE AREA.--150 mi² (389 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to September 1981.

GAGE.--Water-stage recorder. Altitude of gage is 490 ft (149 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, Oct. 1 to Nov. 21, which are fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,720 ft³/s (190 m³/s) Dec. 2 (2200 hrs), gage height, 8.25 ft (2.515 m), no other peak above base of 5,000 ft³/s (142 m³/s); minimum daily, 6.2 ft³/s (0.18 m³/s) Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	35	186	212	812	734	1200	183	142	50	21	9.2
2	8.0	47	3300	198	690	667	1030	176	134	50	21	9.2
3	7.6	42	2750	191	602	622	877	171	126	47	21	9.2
4	7.6	36	2280	188	524	952	783	163	119	44	21	8.7
5	7.6	34	1060	178	492	787	723	157	114	44	20	9.2
6	7.4	33	808	167	446	703	674	150	111	44	20	8.7
7	7.2	40	577	161	394	653	621	144	117	44	17	7.8
8	7.2	88	411	155	357	605	576	138	131	44	18	7.8
9	7.2	80	318	149	334	558	545	134	129	42	17	7.4
10	7.2	72	268	141	310	514	499	129	113	39	15	7.0
11	7.8	63	240	136	317	476	458	125	105	38	15	7.0
12	10	58	222	131	320	432	428	120	107	40	14	6.6
13	35	54	204	126	1540	448	391	118	115	38	14	6.6
14	110	50	189	121	2510	435	361	116	111	36	14	6.2
15	85	47	180	119	1270	559	336	123	100	32	14	6.6
16	70	45	177	119	1770	746	314	128	93	32	14	6.6
17	59	44	169	120	1990	650	295	123	89	32	14	6.6
18	52	43	161	122	1310	589	283	420	85	30	13	6.6
19	47	42	154	146	1700	578	363	351	81	29	13	7.0
20	42	41	146	174	1800	614	346	247	78	29	13	7.0
21	39	72	237	168	1300	672	296	206	75	28	12	7.0
22	36	137	284	1810	1030	994	270	187	71	27	12	7.0
23	35	109	230	1360	896	782	252	173	69	26	12	6.6
24	34	92	207	763	1100	687	240	170	67	25	12	6.6
25	40	75	306	524	917	1260	237	283	64	24	12	7.0
26	36	64	277	583	1000	2980	248	256	61	24	12	12
27	34	58	355	2400	919	2170	229	212	60	23	11	63
28	32	53	350	3150	816	1600	214	189	57	22	11	76
29	30	78	286	2550	---	1600	203	172	55	21	10	36
30	29	129	252	1520	---	1450	193	159	51	21	9.7	24
31	29	---	230	1050	---	1210	---	152	---	21	9.2	---
TOTAL	966.8	1861	16814	18932	27466	27727	13485	5575	2830	1046	451.9	396.2
MEAN	31.2	62.0	542	611	981	894	450	180	94.3	33.7	14.6	13.2
MAX	110	137	3300	3150	2510	2980	1200	420	142	50	21	76
MIN	7.2	33	146	119	310	432	193	116	51	21	9.2	6.2
AC-FT	1920	3690	33350	37550	54480	55000	26750	11060	5610	2070	896	786

WTR YR 1981 TOTAL 117550.9 MEAN 322 MAX 3300 MIN 6.2 AC-FT 233200

REDWOOD CREEK BASIN
11482120 REDWOOD CREEK ABOVE PANTHER CREEK, NEAR ORICK, CA

LOCATION.--Lat 41°05'21", long 123°54'23", unsurveyed, Humboldt County, Hydrologic Unit 18010102, on right bank 100 ft (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 mi² (389 km²).

PERIOD OF RECORD.--Water years 1974-76, 1980 to current year.

CHEMICAL ANALYSES: Water years 1974-75.

SEDIMENT RECORDS: Water years 1974-76, 1980 to current year.

REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
DEC								
03...	1535	11.0	1650	480	2140	30	40	51
JAN								
23...	1400	10.0	1150	306	950	--	--	--
28...	1405	9.0	3970	1350	14500	--	18	33
FEB								
05...	1405	8.5	500	23	31	--	--	--
MAR								
06...	1330	8.5	700	27	51	--	--	--
MAY								
12...	1235	16.0	120	1	.32	--	--	--
JUN								
10...	1335	18.5	113	1	.31	--	--	--
JUL								
07...	1550	22.5	44	1	.12	--	--	--
AUG								
06...	1030	19.5	20	1	.05	--	--	--
SEP								
09...	1200	20.5	7.4	1	.02	--	--	--

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								
03...	61	69	75	81	90	98	100	--
JAN								
23...	--	--	69	--	--	--	--	--
28...	44	54	62	74	83	91	96	99
FEB								
05...	--	--	80	85	93	98	100	--
MAR								
06...	--	--	65	--	--	--	--	--
MAY								
12...	--	--	--	--	--	--	--	--
JUN								
10...	--	--	--	--	--	--	--	--
JUL								
07...	--	--	60	--	--	--	--	--
AUG								
06...	--	--	--	--	--	--	--	--
SEP								
09...	--	--	--	--	--	--	--	--

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 mi² (15.72 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

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 PERIOD OF RECORD.--Maximum discharge, 405 ft³/s (11.5 m³/s) Mar. 14, 1980, gage height, unknown; minimum daily, 0.43 ft³/s (0.012 m³/s) Oct. 5, 1979 and Sept. 24, 1981.

FOR CURRENT YEAR.--Maximum discharge, 191 ft³/s (5.41 m³/s) Dec. 2, gage height, 2.66 ft (0.811 m), no peak above base of 250 ft³/s (7.08 m³/s); minimum daily, 0.43 ft³/s (0.012 m³/s) Sept. 24.

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	1.5	10	14	46	45	64	9.8	7.0	4.2	1.7	.75
2	.89	2.1	116	13	43	41	52	9.7	7.0	4.3	1.9	.75
3	.87	1.7	90	13	40	40	49	9.3	6.8	4.1	2.0	.75
4	.75	1.6	74	12	37	48	43	9.1	6.7	3.9	2.0	.93
5	.75	1.4	58	12	35	40	39	8.5	6.5	3.8	1.9	.75
6	.75	1.5	49	12	32	37	36	8.4	6.5	3.7	1.6	.67
7	.75	7.9	40	11	29	35	33	8.2	8.0	3.8	1.6	.64
8	.75	6.6	31	11	29	31	31	7.6	10	3.7	1.5	.62
9	.75	5.8	26	11	27	30	30	7.5	8.3	3.6	1.3	.68
10	.63	4.8	22	10	26	28	28	7.2	7.0	3.6	1.3	.75
11	.87	3.8	19	9.8	25	26	26	7.1	6.5	3.5	1.2	.62
12	2.7	3.3	17	9.3	24	26	25	6.9	6.7	3.4	1.2	.62
13	3.1	3.2	16	9.3	56	24	23	6.8	6.8	3.3	1.3	.62
14	4.8	2.9	15	9.0	67	23	21	6.8	6.4	3.3	1.3	.62
15	2.6	2.9	14	8.9	51	28	20	8.1	6.1	3.2	1.2	.62
16	2.1	2.9	13	8.5	64	29	19	7.1	5.9	3.0	1.4	.52
17	1.5	2.9	13	9.5	65	26	18	8.2	5.7	3.0	1.1	.62
18	1.4	3.2	12	9.1	56	24	17	20	5.5	3.2	1.1	.62
19	1.2	3.2	12	10	71	25	20	12	5.4	3.0	1.2	.62
20	1.2	3.0	11	9.7	68	26	17	10	5.3	2.8	1.2	.62
21	1.2	4.6	15	9.8	62	31	16	9.2	5.2	2.8	1.0	.62
22	1.2	7.4	14	76	57	37	15	8.7	5.7	2.6	1.1	.52
23	1.1	5.7	12	45	55	32	14	8.0	4.9	2.6	.89	.52
24	1.1	5.0	12	35	61	29	14	8.2	5.0	2.4	.97	.43
25	1.2	4.5	17	30	54	46	13	13	4.9	2.4	1.0	.52
26	1.2	4.3	14	30	55	88	13	9.7	4.9	2.3	.89	1.1
27	1.2	3.9	20	69	51	82	12	9.1	4.8	2.1	.92	4.4
28	1.2	3.8	18	72	47	73	12	8.3	4.5	1.8	.89	2.3
29	1.1	6.6	16	67	---	73	11	7.9	4.2	1.9	.81	1.4
30	1.0	7.0	15	56	---	66	11	7.6	4.2	2.0	.88	1.1
31	1.0	---	15	49	---	63	---	7.5	---	1.8	.79	---
TOTAL	41.75	119.0	826	750.9	1333	1252	742	275.5	182.4	95.1	39.14	26.30
MEAN	1.35	3.97	26.6	24.2	47.6	40.4	24.7	8.89	6.08	3.07	1.26	.88
MAX	4.8	7.9	116	76	71	88	64	20	10	4.3	2.0	4.4
MIN	.63	1.4	10	8.5	24	23	11	6.8	4.2	1.8	.79	.43
AC-FT	83	236	1640	1490	2640	2480	1470	546	362	189	78	52
CAL YR 1980	TOTAL	8250.28	MEAN 22.5	MAX 270	MIN .63	AC-FT 16360						
WTR YR 1981	TOTAL	5683.09	MEAN 15.6	MAX 116	MIN .43	AC-FT 11270						

REDWOOD CREEK BASIN
11482125 PANTHER CREEK NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.
WATER TEMPERATURES: Water year 1980.
SEDIMENT RECORDS: Water years 1979 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1979 to September 1980.

INSTRUMENTATION.--Temperature recorder from December 1979 to September 1980.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. SIEVE DIAM. % FINER THAN .062 MM
OCT						
09...	1350	13.0	.75	2	.00	--
NOV						
05...	1340	12.0	1.4	2	.01	--
JAN						
06...	1510	8.0	11	0	.00	--
23...	1530	10.0	41	15	1.7	48
FEB						
03...	1600	7.5	40	5	.54	70
MAR						
04...	1435	9.0	45	7	.85	58
APR						
09...	1415	10.0	30	4	.32	--
MAY						
12...	1440	11.0	7.2	0	.00	--
JUN						
10...	1200	12.0	7.2	2	.04	--
JUL						
07...	1400	14.0	4.1	2	.02	--
AUG						
06...	1230	14.5	1.7	0	.00	--
SEP						
09...	1305	13.5	.62	0	.00	--

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 mi² (20.15 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 450 ft (137 m), from topographic map. Prior to October 9, 1980, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records fair except those for period Aug. 7 to Sept. 25, which are poor. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,120 ft³/s (31.7 m³/s) Jan. 12, 1980, gage height 4.14 ft (1.261 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Sept. 23-25, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 650 ft³/s (18.4 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Dec. 2	1230	*836	23.7	5.34	1.628
Jan. 22	1430	705	20.0	5.15	1.570

Minimum daily discharge, 0.10 ft³/s (0.003 m³/s) Sept. 23-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	2.1	97	23	46	32	63	7.9	7.4	2.0	.59	.23
2	.93	2.4	542	20	36	25	51	7.4	6.8	2.0	.59	.23
3	.93	2.0	277	19	28	24	39	7.0	6.1	1.9	.59	.22
4	.93	1.7	191	17	23	75	31	6.8	5.7	1.8	.59	.21
5	.93	1.6	117	16	23	38	26	6.5	5.4	1.8	.59	.20
6	.93	1.6	92	14	20	29	22	6.1	5.3	1.8	.59	.19
7	.90	12	63	13	17	26	19	6.0	6.7	1.7	.56	.19
8	.90	11	45	13	15	22	17	6.0	8.9	1.6	.53	.18
9	.90	7.6	34	12	14	19	17	5.8	7.1	1.5	.50	.17
10	.90	5.5	26	11	12	17	14	5.5	5.8	1.5	.49	.16
11	1.4	4.0	22	10	14	15	13	5.3	5.3	1.5	.47	.15
12	2.4	3.3	19	9.8	12	14	13	5.1	5.3	1.5	.46	.15
13	2.6	2.7	16	9.1	191	16	11	5.1	5.5	1.4	.44	.14
14	5.0	2.4	14	8.8	160	14	10	5.1	5.0	1.4	.42	.14
15	3.2	2.2	13	8.5	77	58	9.3	6.2	4.4	1.3	.41	.13
16	2.4	2.2	12	8.3	162	70	8.7	5.8	4.1	1.2	.39	.13
17	2.0	2.1	11	9.1	113	42	8.3	6.7	3.8	1.1	.38	.12
18	1.8	2.0	11	8.5	73	33	8.0	45	3.6	1.1	.37	.12
19	1.6	1.9	9.9	12	123	34	18	18	3.4	1.1	.36	.12
20	1.5	1.8	9.4	11	87	37	14	13	3.2	.99	.35	.11
21	1.5	10	31	13	61	63	11	11	3.1	.97	.34	.11
22	1.4	21	34	315	45	73	10	9.7	3.0	.90	.33	.11
23	1.3	12	25	143	40	47	9.5	9.0	2.8	.84	.31	.10
24	1.5	9.6	21	83	67	37	9.0	9.7	2.7	.82	.30	.10
25	1.6	6.8	59	57	47	107	10	24	2.6	.77	.29	.10
26	1.5	5.5	38	75	68	238	13	16	2.5	.75	.28	.79
27	1.4	4.6	73	235	54	147	11	12	2.4	.69	.27	2.9
28	1.4	4.2	53	201	41	89	9.7	11	2.3	.65	.26	1.7
29	1.3	12	40	151	---	96	9.0	9.4	2.2	.65	.25	1.2
30	1.3	17	32	91	---	74	8.2	8.5	2.1	.63	.25	.91
31	1.3	---	27	64	---	64	---	8.1	---	.59	.24	---
TOTAL	48.58	174.8	2054.3	1681.1	1669	1675	512.7	308.7	134.5	38.45	12.79	11.31
MEAN	1.57	5.83	66.3	54.2	59.6	54.0	17.1	9.96	4.48	1.24	.41	.38
MAX	5.0	21	542	315	191	238	63	45	8.9	2.0	.59	2.9
MIN	.90	1.6	9.4	8.3	12	14	8.0	5.1	2.1	.59	.24	.10
AC-FT	96	347	4070	3330	3310	3320	1020	612	267	76	25	22
CAL YR 1980	TOTAL	12033.17	MEAN	32.9	MAX	678	MIN	.34	AC-FT	23870		
WTR YR 1981	TOTAL	8321.23	MEAN	22.8	MAX	542	MIN	.10	AC-FT	16510		

REDWOOD CREEK BASIN

11482130 COYOTE CREEK NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1979 to current year.

WATER TEMPERATURES: December 1979 to September 1980.

SEDIMENT RECORDS: November 1979 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1979 to September 1980.

INSTRUMENTATION.--Temperature recorder from December 1979 to September 1980.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
OCT								
06...	1620	19.0	.93	2	.01	--	--	--
NOV								
05...	1550	14.5	1.6	74	.32	--	--	--
DEC								
08...	1430	7.5	42	23	2.6	--	--	--
JAN								
07...	1245	9.5	14	9	.34	--	--	--
22...	1200	11.0	494	2210	2950	24	39	47
FEB								
03...	1345	8.5	28	20	1.5	--	--	--
MAR								
05...	1210	8.0	39	15	1.6	--	--	--
APR								
09...	1205	12.0	17	5	.23	--	--	--
MAY								
14...	1400	14.5	5.2	1	.01	--	--	--
JUN								
10...	1545	18.5	5.8	1	.02	--	--	--
JUL								
06...	1355	19.5	1.7	5	.02	--	--	--
AUG								
06...	1525	26.0	.59	3	.00	--	--	--
SEP								
09...	1430	22.0	.17	0	.00	--	--	--

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							
06...	--	--	--	--	--	--	--
NOV							
05...	--	--	--	--	--	--	--
DEC							
08...	--	93	--	--	--	--	--
JAN							
07...	--	50	--	--	--	--	--
22...	62	68	77	85	93	98	100
FEB							
03...	--	99	--	--	--	--	--
MAR							
05...	--	60	--	--	--	--	--
APR							
09...	--	--	--	--	--	--	--
MAY							
14...	--	--	--	--	--	--	--
JUN							
10...	--	--	--	--	--	--	--
JUL							
06...	--	46	--	--	--	--	--
AUG							
06...	--	--	--	--	--	--	--
SEP							
09...	--	--	--	--	--	--	--

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.

WATER-DISCHARGE RECORDS

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.

AVERAGE DISCHARGE.--11 years, 706 ft³/s (19.99 m³/s), 511,500 acre-ft/yr (631 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,000 ft³/s (935 m³/s) Mar. 18, 1975, on basis of runoff comparison with upstream and downstream stations, gage height unknown; maximum gage height recorded, 29.36 ft (8.949 m) Mar. 2, 1972, datum then in use; minimum daily, 4.5 ft³/s (0.13 m³/s) Oct. 17-21, 23, 26, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,480 ft³/s (212 m³/s) Dec. 2 (2130 hrs), gage height 11.86 ft (3.615 m), no other peak above base of 5,900 ft³/s (167 m³/s); minimum daily, 10 ft³/s (0.28 m³/s) Oct. 8-10.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	24	419	327	1010	890	1280	241	187	82	31	17
2	12	49	4590	296	871	805	1150	233	179	82	32	17
3	11	40	3330	282	778	729	1010	224	167	78	33	18
4	11	34	2730	272	697	1130	861	218	162	75	33	16
5	12	30	1520	244	668	926	798	210	155	74	32	17
6	13	28	1240	225	625	816	748	205	150	72	32	17
7	11	136	916	209	563	767	685	200	161	72	28	16
8	10	245	676	192	526	722	635	200	183	69	28	15
9	10	148	537	181	499	662	604	193	174	68	26	14
10	10	107	448	167	468	621	553	186	153	63	24	15
11	12	79	391	157	476	588	524	180	145	57	23	14
12	18	67	346	150	469	555	500	174	146	59	23	12
13	34	58	309	142	1680	587	465	171	156	57	24	12
14	83	52	277	135	2520	565	436	170	148	55	24	12
15	76	50	255	132	1310	728	417	181	142	51	23	12
16	36	49	245	130	1760	943	400	181	132	50	23	11
17	27	42	228	133	1930	783	381	177	128	50	23	11
18	21	39	212	133	1320	709	388	508	122	48	23	11
19	20	35	208	167	1650	709	457	424	119	46	23	11
20	17	38	203	223	1740	768	417	319	120	45	24	12
21	17	62	385	207	1330	856	372	270	121	41	24	12
22	17	244	493	2230	1130	1190	354	244	125	41	21	12
23	18	177	383	1680	1000	965	334	228	110	40	19	12
24	20	139	332	1080	1190	861	319	226	102	37	19	12
25	20	110	569	839	1040	1340	317	351	98	36	19	12
26	20	93	491	974	1130	3070	330	324	98	34	19	17
27	22	78	659	2520	1060	2390	301	268	96	33	21	71
28	20	71	635	3060	944	1730	281	236	93	31	19	89
29	19	133	496	2660	---	1660	267	225	79	31	19	55
30	18	239	417	1680	---	1500	253	208	96	29	18	36
31	16	---	369	1220	---	1290	---	196	---	31	18	---
TOTAL	663	2696	24309	22047	30384	31855	15837	7371	4047	1637	748	608
MEAN	21.4	89.9	784	711	1085	1028	528	238	135	52.8	24.1	20.3
MAX	83	245	4590	3060	2520	3070	1280	508	187	82	33	89
MIN	10	24	203	130	468	555	253	170	79	29	18	11
AC-FT	1320	5350	48220	43730	60270	63180	31410	14620	8030	3250	1480	1210
CAL YR 1980	TOTAL	233126	MEAN 637	MAX 9020	MIN 10	AC-FT 462400						
WTR YR 1981	TOTAL	142202	MEAN 390	MAX 4590	MIN 10	AC-FT 282100						

REDWOOD CREEK BASIN

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to September 1981 (discontinued).

CHEMICAL ANALYSES: Water years 1971-77.

WATER TEMPERATURES: Water years 1974-80.

SEDIMENT RECORDS: Water years 1971 to September 1981 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1973 to April 1980.

INSTRUMENTATION.--Temperature recorder from October 1973 to September 1980.

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.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. SIEVE DIAM. % FINER THAN .062 MM
OCT 28...	1415	13.5	21	16	.91	--
DEC 11...	1155	6.0	378	16	16	81
JAN 15...	1350	8.5	132	4	1.4	62
FEB 12...	1215	9.5	469	10	13	69
MAR 13...	1320	10.5	574	16	25	57
APR 23...	1445	15.0	333	9	8.1	--
MAY 26...	1320	17.0	321	5	4.3	--
JUL 08...	1310	20.5	61	1	.16	60
SEP 16...	1335	17.0	11	2	.06	--

11482468 LITTLE LOST MAN CREEK AT SITE NO. 2, NEAR ORICK, CA

LOCATION.--Lat 41°19'20", long 124°01'10", in NE¼SE¼ sec.23, T.11 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on right bank 0.8 mi (1.3 km) upstream from mouth, and 3.2 mi (5.1 km) northeast of Orick.

DRAINAGE AREA.--3.46 mi² (8.96 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map.

REMARKS.--Records good, except those for period of no gage-height record, Nov. 8 to Dec. 19, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--7 years, 9.48 ft³/s (0.27 m³/s), 6,870 acre-ft/yr (8.47 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 808 ft³/s (22.9 m³/s) Mar. 18, 1975, gage height, 4.32 ft (1.317 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Dec. 19-26, 28, 1976, Feb. 19, 1977.

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

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Dec. 2	unknown	*240	6.80	unknown	
Jan. 22	unknown	195	5.52	unknown	

Minimum daily discharge, 0.25 ft³/s (0.007 m³/s) Sept. 13-14, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	.79	40	6.2	22	16	22	4.4	4.9	1.7	.67	.36
2	.44	1.2	200	5.7	19	13	18	4.2	4.5	1.6	.70	.36
3	.40	.73	140	5.2	16	12	15	3.9	4.0	1.5	.71	.36
4	.40	.57	100	4.7	14	18	13	3.5	3.7	1.3	.73	.36
5	.40	.48	68	4.4	13	16	10	3.2	3.7	1.3	.73	.33
6	.40	.40	48	4.0	11	14	9.3	3.0	3.5	1.3	.72	.33
7	.40	.82	34	3.7	11	12	8.2	2.9	3.5	1.3	.67	.30
8	.40	3.6	25	3.5	9.8	11	7.4	2.8	5.3	1.1	.61	.30
9	.40	2.9	18	3.3	9.5	9.4	7.6	2.7	4.5	1.1	.56	.28
10	.40	2.3	13	3.1	8.9	8.6	6.7	2.5	3.9	1.1	.52	.28
11	.44	1.8	9.4	2.9	8.8	7.9	6.2	2.4	3.5	1.1	.48	.28
12	2.1	1.5	7.2	2.7	8.4	7.2	7.3	2.3	3.5	.98	.51	.28
13	2.2	1.2	6.1	2.5	20	9.3	6.5	2.2	3.5	.98	.53	.25
14	2.6	1.1	5.4	2.5	50	9.0	6.0	2.3	3.2	.98	.57	.25
15	.79	.97	4.8	2.4	41	14	5.8	2.9	2.9	.91	.57	.28
16	.65	.90	4.3	2.4	50	19	5.3	2.5	2.7	.85	.57	.28
17	.53	.84	4.0	2.3	47	12	5.0	3.2	2.5	.87	.53	.28
18	.48	.79	3.7	2.2	36	11	4.8	14	2.5	.91	.55	.30
19	.48	.75	3.5	2.7	37	10	9.3	9.7	2.3	.87	.57	.52
20	.40	.72	3.3	2.6	37	12	9.7	7.5	2.2	.85	.58	.36
21	.40	.71	3.7	3.0	32	15	8.6	6.8	2.2	.79	.53	.33
22	.40	3.2	4.1	120	27	20	7.9	6.1	2.1	.79	.52	.30
23	.40	2.5	4.2	70	23	14	7.4	5.5	2.1	.78	.52	.28
24	.62	2.0	3.8	43	29	11	6.8	5.4	1.9	.73	.48	.28
25	.95	1.8	5.8	28	25	13	6.5	10	1.8	.73	.47	.25
26	.67	1.5	5.4	21	24	47	6.4	9.7	1.8	.73	.44	.44
27	.62	1.4	13	38	23	34	5.9	8.7	1.8	.68	.42	1.9
28	.62	1.3	11	43	18	25	5.3	7.6	1.8	.67	.40	1.2
29	.52	1.2	9.0	50	---	21	4.9	6.8	1.7	.67	.40	.77
30	.44	6.8	7.6	36	---	19	4.7	6.1	1.6	.67	.37	.62
31	.38	---	6.8	28	---	18	---	5.5	---	.67	.36	---
TOTAL	20.77	46.77	812.1	549.0	670.4	478.4	247.5	160.3	89.1	30.51	16.99	12.71
MEAN	.67	1.56	26.2	17.7	23.9	15.4	8.25	5.17	2.97	.98	.55	.42
MAX	2.6	6.8	200	120	50	47	22	14	5.3	1.7	.73	1.9
MIN	.38	.40	3.3	2.2	8.4	7.2	4.7	2.2	1.6	.67	.36	.25
AC-FT	41	93	1610	1090	1330	949	491	318	177	61	34	25
CAL YR 1980	TOTAL	3969.08	MEAN	10.8	MAX	205	MIN	.38	AC-FT	7870		
WTR YR 1981	TOTAL	3134.55	MEAN	8.59	MAX	200	MIN	.25	AC-FT	6220		

REDWOOD CREEK BASIN

11482468 LITTLE LOST MAN CREEK AT SITE NO. 2, NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

CHEMICAL ANALYSES: Water years 1974-77.

SEDIMENT RECORDS: Water years 1974-76, 1978 to current year.

REMARKS.--Prior to October 1975, published in Geological Survey Open-File Report 76-678, "Redwood National Park Studies," Data Release Number 2.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
OCT 15...	1020	11.0	.79	10	.02	--	--	--	--	--
NOV 06...	1340	11.0	.40	0	.00	--	--	--	--	--
DEC 23...	1200	9.5	4.2	2	.02	--	--	--	--	--
JAN 22...	1535	11.0	120	265	86	83	88	92	98	100
FEB 17...	1145	10.0	50	13	1.8	68	--	--	--	--
MAR 10...	1330	9.5	8.4	22	.50	59	--	--	--	--
APR 04...	1220	9.5	13	4	.14	--	--	--	--	--
MAY 02...	1245	10.5	4.2	2	.02	--	--	--	--	--
JUN 04...	1320	13.5	3.7	2	.02	--	--	--	--	--
JUL 02...	1440	16.0	1.6	1	.00	--	--	--	--	--
AUG 04...	1440	13.5	.73	0	.00	--	--	--	--	--
SEP 04...	1300	14.0	.36	2	.00	--	--	--	--	--

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 mi² (720 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1911 to September 1913, October 1953 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1912-13.

GAGE.--Water-stage recorder. Datum of gage is 5.16 ft (1.573 m) National Geodetic Vertical Datum of 1929. Sept. 10, 1911, to Aug. 9, 1913, nonrecording gage at different datum.

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

AVERAGE DISCHARGE.--30 years, 1,042 ft³/s (29.51 m³/s), 754,900 acre-ft/yr (931 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,500 ft³/s (1,430 m³/s) Dec. 22, 1964, gage height, 24.0 ft (7.32 m), from outside high-water marks; minimum daily, 9.3 ft³/s (0.26 m³/s) Oct. 17-19, 21, 23-26, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 18, 1953, reached a stage of 23.95 ft (7.300 m), from floodmarks, discharge, 50,000 ft³/s (1,420 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,030 ft³/s (256 m³/s) Dec. 2 (2315 hrs), gage height, 13.16 ft (4.011 m), no other peak above base of 9,000 ft³/s (255 m³/s); minimum daily, 11 ft³/s (0.31 m³/s) on several days during September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	33	284	494	1930	1460	2450	393	283	110	42	22
2	16	53	5380	446	1600	1310	2140	371	270	108	44	22
3	14	50	5400	413	1380	1190	1890	350	253	104	44	21
4	13	46	4560	400	1210	1840	1670	333	239	99	46	20
5	14	40	2560	359	1130	1590	1500	317	229	97	47	19
6	13	34	2060	331	1060	1380	1370	305	224	95	47	18
7	13	98	1560	307	939	1290	1250	295	232	93	44	17
8	13	283	1110	292	850	1210	1150	287	311	91	43	15
9	13	201	829	283	788	1090	1100	282	304	88	40	15
10	12	140	660	265	727	998	1010	272	257	86	36	14
11	12	97	543	251	702	935	943	262	233	83	34	13
12	33	78	468	236	691	872	957	252	228	83	34	12
13	54	64	410	225	1940	922	859	241	250	83	34	11
14	98	58	363	217	4300	874	791	242	241	79	34	11
15	114	54	327	211	2490	1060	736	265	218	77	34	11
16	78	51	302	207	2830	1610	689	273	201	76	36	11
17	52	47	279	216	3830	1370	646	259	190	74	34	11
18	42	44	258	212	2620	1190	615	731	181	74	33	11
19	35	43	240	237	2890	1160	747	729	172	74	33	18
20	30	42	228	307	3240	1250	781	524	169	69	34	18
21	27	55	319	311	2490	1240	658	437	163	65	30	15
22	25	225	576	4360	2040	1890	607	375	156	61	30	13
23	24	219	441	4090	1780	1580	570	338	151	59	30	12
24	24	187	361	2400	2190	1360	539	326	146	55	32	11
25	37	141	619	1700	1900	2010	519	508	141	53	31	11
26	33	110	613	1590	1930	5100	547	539	136	52	29	13
27	35	93	832	3720	1850	4680	503	441	132	49	27	82
28	33	83	986	4890	1620	3390	466	382	127	47	26	140
29	28	110	752	4800	---	3110	445	337	119	44	25	103
30	27	268	634	3290	---	2890	419	315	108	44	24	69
31	24	---	559	2460	---	2680	---	301	---	43	23	---
TOTAL	1002	3047	34513	39520	52947	54531	28567	11282	6064	2315	1080	779
MEAN	32.3	102	1113	1275	1891	1759	952	364	202	74.7	34.8	26.0
MAX	114	283	5400	4890	4300	5100	2450	731	311	110	47	140
MIN	12	33	228	207	691	872	419	241	108	43	23	11
AC-FT	1990	6040	68460	78390	105000	108200	56660	22380	12030	4590	2140	1550
CAL YR 1980	TOTAL	326516	MEAN 892	MAX 13500	MIN 12	AC-FT 647600						
WTR YR 1981	TOTAL	235647	MEAN 646	MAX 5400	MIN 11	AC-FT 467400						

REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1959 to current year.

CHEMICAL ANALYSES: Water years 1959-66, 1973 to current year.

WATER TEMPERATURES: Water years 1966 to current year.

SEDIMENT RECORDS: Water years 1955-56, 1970 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1965 to current year.

SEDIMENT RECORDS: March 1970 to current year.

INSTRUMENTATION.--Temperature recorder October 1965 to September 1979.

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, 1978-81.

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, and several days during 1981.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum observed, 21.5°C Aug. 10, Sept. 8; minimum observed, 8.0°C Dec. 7, 9, 13, 16, Feb. 25.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,580 mg/L Dec. 2; minimum daily mean, 1 mg/L on many days during the year.

SEDIMENT DISCHARGE: Maximum daily, 29,600 tons (26,900 metric tons) Dec. 2; minimum daily, 0.03 ton (0.03 metric ton) on several days during September.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM FLOW, INST-CFS	SPECIFIC COND MICROMHO	PH FIELD (UNITS)	TEMP WATER (DEG C)	TURB- IDITY (NTU)	OXYGEN DISS (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM CA,DISS (MG/L)	MAGNESIUM MG,DISS (MG/L)	SODIUM NA,DISS (MG/L)
80/10/13	14 35	72	164	7.3		2.0	9.7				
80/11/10	16 30	146	170	7.8		2.0	10.1				
80/12/09	14 10	761	116	7.1	8.5	11	11.9	46	15	2	4
81/01/05	11 00	359	125	7.3	9.0	2.0	11.7				
81/02/02	15 00	1570	94	7.4	9.0	23	12.0				
81/03/02	16 00	1290	90	7.3	11.0	13	10.9				
81/04/06	16 05	1350	87	7.3	12.5	13	11.0				
81/05/11	15 40	243	119	8.0	18.5	1.0	10.1				
81/06/22	16 15	148	142	7.5	18.0	2.0	9.7				
81/07/13	15 15		149	7.5	22.0	1.0	9.2				
81/08/11	14 55		150	7.3	17.5	1.0	9.7				
81/09/15	15 25	11	137	7.3	17.5	1.0	9.8	52	16	3	6

DATE	TIME	POTASSIUM K,DISS (MG/L)	ALKALI- LINITY (MG/L)	CHLORIDE TOTAL (MG/L)	BORON B,DISS (UG/L)
80/10/13	14 35				
80/11/10	16 30				
80/12/09	14 10	0.7	36	4	100
81/01/05	11 00				
81/02/02	15 00				
81/03/02	16 00				
81/04/06	16 05				
81/05/11	15 40				
81/06/22	16 15				
81/07/13	15 15				
81/08/11	14 55				
81/09/15	15 25	0.8	48	4	100

11482500 REDWOOD CREEK AT ORICK, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	13.5	8.5	10.0	9.0	---	10.5	---	16.0	---	---	---
2	---	---	11.5	9.5	9.5	10.5	10.5	---	17.0	20.0	---	18.5
3	15.5	16.0	12.0	10.0	9.5	11.0	10.0	15.0	---	---	16.0	---
4	---	15.0	9.0	---	8.5	9.0	12.5	14.0	16.0	---	---	20.0
5	---	16.0	9.0	10.5	9.0	10.5	11.5	11.5	15.5	---	17.5	---
6	16.0	15.0	9.0	10.0	9.0	10.0	12.5	16.0	---	---	---	---
7	---	15.0	8.0	10.0	9.0	10.0	12.0	13.5	15.0	20.0	---	---
8	17.5	14.0	8.5	10.0	9.5	---	10.0	13.0	17.0	---	16.5	18.5
9	---	12.5	8.0	11.5	11.0	12.0	11.0	---	15.0	19.0	---	---
10	17.0	13.5	9.0	11.0	9.5	11.5	12.5	---	---	---	21.5	19.0
11	---	13.0	9.0	---	10.0	12.0	11.0	14.0	18.0	19.5	---	---
12	16.0	11.5	9.0	11.0	12.0	12.5	10.5	14.0	14.5	---	16.0	18.0
13	15.5	12.5	8.0	11.0	11.5	11.0	12.5	13.5	---	17.0	---	---
14	13.0	10.0	8.5	11.0	12.0	11.5	11.0	13.0	---	---	15.5	17.5
15	---	9.0	11.0	12.0	11.5	10.5	12.5	14.0	16.5	15.0	---	---
16	16.0	11.5	8.0	10.5	12.0	11.0	11.5	13.0	---	---	---	15.5
17	---	---	---	9.5	12.5	10.5	13.0	13.0	14.5	---	15.5	---
18	12.5	11.0	9.0	13.0	13.5	10.5	12.0	12.5	---	18.0	---	19.5
19	---	12.5	9.5	12.5	12.0	10.5	11.5	12.5	17.0	---	17.0	18.5
20	15.5	---	10.0	11.0	10.0	10.0	11.5	16.5	---	16.0	---	---
21	---	12.0	12.0	11.5	9.0	11.0	12.5	14.0	---	---	16.5	19.5
22	17.0	11.5	11.0	11.5	10.5	---	14.0	13.0	17.0	16.0	---	---
23	---	11.5	9.0	10.5	10.5	12.0	14.0	---	---	---	---	18.5
24	13.5	9.5	11.5	10.0	9.0	10.5	12.5	15.0	17.0	16.0	17.5	---
25	13.5	11.0	12.0	9.0	8.0	11.0	12.5	15.5	---	---	---	17.0
26	13.5	11.5	13.0	10.0	10.0	9.0	13.0	17.0	16.5	---	17.0	---
27	16.0	---	12.0	9.5	10.5	11.5	15.0	15.0	---	19.5	---	17.0
28	---	11.5	11.0	9.0	10.5	11.5	12.0	14.0	20.0	---	---	15.0
29	14.5	10.5	10.5	9.0	---	10.5	12.5	15.5	---	15.5	18.5	---
30	15.5	10.0	12.0	9.0	---	11.0	14.0	16.5	18.0	---	---	13.0
31	14.5	---	10.5	9.0	---	9.5	---	18.5	---	15.5	17.0	---
MONTH	---	12.5	10.0	10.5	10.5	11.0	12.0	14.5	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	16	2	.09	33	6	.53	284	10	7.7
2	16	1	.04	53	5	.72	5380	1580	29600
3	14	1	.04	50	2	.27	5400	1040	17100
4	13	1	.04	46	2	.25	4560	951	13000
5	14	1	.04	40	1	.11	2560	230	1590
6	13	1	.04	34	2	.18	2060	130	723
7	13	1	.04	98	44	19	1560	95	400
8	13	2	.07	283	40	31	1110	70	210
9	13	2	.07	201	10	5.4	829	43	96
10	12	2	.06	140	3	1.1	660	30	53
11	12	2	.06	97	1	.26	543	25	37
12	33	12	1.1	78	2	.42	468	18	23
13	54	4	.58	64	1	.17	410	18	20
14	98	24	6.9	58	1	.16	363	13	13
15	114	10	3.1	54	1	.15	327	8	7.1
16	78	3	.63	51	1	.14	302	6	4.9
17	52	2	.28	47	1	.13	279	6	4.5
18	42	1	.11	44	1	.12	258	6	4.2
19	35	1	.09	43	1	.12	240	5	3.2
20	30	1	.08	42	1	.11	228	5	3.1
21	27	1	.07	55	2	.30	319	28	36
22	25	1	.07	225	22	15	576	58	91
23	24	1	.06	219	7	4.1	441	18	21
24	24	3	.19	187	2	1.0	361	10	9.7
25	37	4	.40	141	1	.38	619	53	100
26	33	1	.09	110	2	.59	613	27	45
27	35	2	.19	93	1	.25	832	61	158
28	33	2	.18	83	1	.22	986	50	133
29	28	2	.15	110	4	1.2	752	21	43
30	27	2	.15	268	15	11	634	14	24
31	24	2	.13	---	---	---	559	11	17
TOTAL	1002	---	15.14	3047	---	94.38	34513	---	63577.4

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	494	9	12	1930	110	573	1460	43	170
2	446	6	7.2	1600	68	294	1310	37	131
3	413	5	5.6	1380	51	190	1190	35	112
4	400	3	3.2	1210	41	134	1840	159	812
5	359	3	2.9	1130	34	104	1590	65	279
6	331	3	2.7	1060	29	83	1380	42	156
7	307	5	4.1	939	22	56	1290	32	111
8	292	3	2.4	850	18	41	1210	29	95
9	283	3	2.3	788	16	34	1090	24	71
10	265	2	1.4	727	11	22	998	20	54
11	251	3	2.0	702	11	21	935	16	40
12	236	4	2.5	691	10	19	872	15	35
13	225	2	1.2	1940	671	6440	922	18	45
14	217	2	1.2	4300	800	9290	874	16	38
15	211	3	1.7	2490	200	1340	1060	55	157
16	207	2	1.1	2830	422	4480	1610	113	491
17	216	3	1.7	3830	540	5580	1370	40	148
18	212	4	2.3	2620	145	1030	1190	28	90
19	237	4	2.6	2890	365	3250	1160	25	78
20	307	10	8.3	3240	340	2970	1250	50	169
21	311	9	7.6	2490	135	908	1240	45	151
22	4360	989	17000	2040	110	606	1890	135	689
23	4090	430	4750	1780	100	481	1580	68	290
24	2400	140	907	2190	167	987	1360	42	154
25	1700	135	620	1900	80	410	2010	176	1110
26	1590	140	601	1930	85	443	5100	507	7170
27	3720	836	10600	1850	70	350	4680	420	5310
28	4890	885	12300	1620	48	210	3390	194	1780
29	4800	525	6800	---	---	---	3110	190	1600
30	3290	215	1910	---	---	---	2890	162	1260
31	2460	135	897	---	---	---	2680	135	977
TOTAL	39520	---	56461.0	52947	---	40346	54531	---	23773

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	2450	118	781	393	4	4.2	283	4	3.1
2	2140	93	537	371	4	4.0	270	3	2.2
3	1890	75	383	350	4	3.8	253	3	2.0
4	1670	56	253	333	3	2.7	239	4	2.6
5	1500	46	186	317	4	3.4	229	3	1.9
6	1370	36	133	305	3	2.5	224	3	1.8
7	1250	34	115	295	1	2.0	232	3	1.9
8	1150	29	90	287	3	2.3	311	15	13
9	1100	25	74	282	3	2.3	304	7	5.7
10	1010	20	55	272	4	2.9	257	4	2.8
11	943	19	48	262	3	2.1	233	3	1.9
12	957	18	47	252	2	1.4	228	6	3.7
13	859	15	35	241	3	2.0	250	2	1.4
14	791	13	28	242	2	1.3	241	2	1.3
15	736	11	22	265	4	2.9	218	2	1.2
16	689	10	19	273	10	7.4	201	1	.54
17	646	11	19	259	13	9.1	190	1	.51
18	615	9	15	731	95	195	181	1	.49
19	747	20	40	729	44	87	172	1	.46
20	781	17	36	524	30	42	169	1	.46
21	658	12	21	437	23	27	163	1	.44
22	607	8	13	375	8	8.1	156	1	.42
23	570	7	11	338	5	4.6	151	1	.41
24	539	6	8.7	326	4	3.5	146	1	.39
25	519	7	9.8	508	24	35	141	2	.76
26	547	7	10	539	12	17	136	4	1.5
27	503	6	8.1	441	5	6.0	132	3	1.1
28	466	6	7.5	382	5	5.2	127	2	.69
29	445	5	6.0	337	4	3.6	119	2	.64
30	419	4	4.5	315	4	3.4	108	2	.58
31	---	---	---	301	3	2.4	---	---	---
TOTAL	28567	---	3015.6	11282	---	494.90	6064	---	55.89

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	110	3	.89	42	2	.23	22	2	.12
2	108	3	.87	44	3	.36	22	2	.12
3	104	3	.84	44	3	.36	21	3	.17
4	99	2	.53	46	2	.25	20	4	.22
5	97	2	.52	47	2	.25	19	3	.15
6	95	3	.77	47	2	.25	18	2	.10
7	93	3	.75	44	2	.24	17	2	.09
8	91	3	.74	43	2	.23	15	2	.08
9	88	2	.48	40	2	.22	15	2	.08
10	86	3	.70	36	3	.29	14	2	.08
11	83	6	1.3	34	2	.18	13	1	.04
12	83	3	.67	34	2	.18	12	1	.03
13	83	3	.67	34	2	.18	11	1	.03
14	79	3	.64	34	2	.18	11	1	.03
15	77	3	.62	34	2	.18	11	1	.03
16	76	3	.62	36	3	.29	11	1	.03
17	74	4	.80	34	3	.28	11	3	.09
18	74	4	.80	33	3	.27	11	5	.15
19	74	4	.80	33	3	.27	18	3	.15
20	69	4	.75	34	3	.28	18	2	.10
21	65	4	.70	30	4	.32	15	2	.08
22	61	4	.66	30	3	.24	13	2	.07
23	59	4	.64	30	2	.16	12	1	.03
24	55	5	.74	32	1	.09	11	1	.03
25	53	5	.72	31	2	.17	11	2	.06
26	52	6	.84	29	3	.23	13	4	.14
27	49	8	1.1	27	2	.15	82	26	5.8
28	47	6	.76	26	2	.14	140	12	4.5
29	44	5	.59	25	2	.14	103	6	1.7
30	44	3	.36	24	2	.13	69	4	.75
31	43	2	.23	23	2	.12	---	---	---
TOTAL	2315	---	22.10	1080	---	6.86	779	---	15.05
YEAR	235647.0		187877.3						

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1980	1002.00	15.14	0	15
NOVEMBER ...	3047.00	94.38	150	244
DECEMBER ...	34513.00	63577.40	26800	90400
JANUARY 1981	39520.00	56461.00	33300	89800
FEBRUARY ...	52947.00	40346.00	45600	85900
MARCH	54531.00	23773.00	45700	69500
APRIL	28567.00	3015.60	18800	21800
MAY	11282.00	494.90	3110	3600
JUNE	6064.00	55.89	560	616
JULY	2315.00	22.10	0	22
AUGUST	1080.00	6.86	0	7
SEPTEMBER ..	779.00	15.05	1	16
TOTAL	235647.00	187877.32	174021	361920

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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											
02...	0955	11.0	4840	2280	29800	--	26	34	49	65	--
11...	1610	7.5	521	23	32	--	--	--	--	--	--
JAN											
22...	1440	11.5	5790	1630	25500	16	22	32	43	56	--
22...	1525	11.5	6700	1950	35300	--	20	30	43	59	73
23...	1430	10.5	3550	291	2790	--	--	--	--	--	--
29...	1310	9.0	4620	444	5540	24	33	43	55	64	--
FEB											
17...	1430	10.5	3450	323	3010	26	34	46	57	65	--
24...	1535	9.0	2220	157	941	--	--	--	--	--	--
APR											
11...	1150	10.0	937	20	51	--	--	--	--	--	--

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										
02...	78	--	89	--	94	--	95	--	97	98
11...	84	--	87	--	91	--	96	--	100	--
JAN										
22...	68	--	79	--	85	--	87	--	91	95
22...	--	88	--	96	--	97	--	100	--	--
23...	84	--	90	--	98	--	100	--	--	--
29...	71	--	77	--	87	--	95	--	96	100
FEB										
17...	70	--	75	--	86	--	96	--	100	--
24...	63	--	67	--	77	--	93	--	95	100
APR										
11...	78	--	82	--	89	--	98	--	100	--

11510700 KLAMATH RIVER BELOW JOHN C. BOYLE POWERPLANT, NEAR KENO, OR

LOCATION.--Lat 42°05'05", long 122°04'20", in SE¼SE¼ sec.14, T.40 S., R.6 E., Klamath County, Hydrologic Unit 18010206, on right bank 0.7 mi (1.1 km) downstream from John C. Boyle powerplant, 8 mi (13 km) downstream from Spencer Creek, and 8.5 mi (13.7 km) southwest of Keno.

DRAINAGE AREA.--4,080 mi² (10,570 km²), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--January 1959 to current year. Prior to Oct. 1, 1961, published as "below Big Bend powerplant."

GAGE.--Water-stage recorder. Datum of gage is 3,274.82 ft (998.165 m) National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.).

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake (see station 11507001). Large diurnal fluctuation caused by John C. Boyle powerplant and two powerplants below Upper Klamath Lake. Diversions for irrigation above station.

AVERAGE DISCHARGE.--21 years, 1,799 ft³/s (50.95 m³/s), 1,303,000 acre-ft/yr (1.61 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft³/s (312 m³/s) Mar. 5, 1972, gage height, 9.33 ft (2.844 m); minimum, 283 ft³/s (8.01 m³/s) Feb. 17, 1968; minimum daily, 317 ft³/s (8.98 m³/s) July 25, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,850 ft³/s (80.7 m³/s) Mar. 30, gage height, 5.78 ft (1.762 m); minimum, 326 ft³/s (9.23 m³/s) Jan. 30 to Feb. 1; minimum daily, 344 ft³/s (9.74 m³/s) July 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1230	1190	1130	1210	1040	1450	2600	947	760	822	860	1230
2	1220	1200	1110	1200	1000	1440	2520	853	760	719	809	1220
3	1150	1190	1140	1180	1110	1600	1970	853	760	719	996	1230
4	1210	1200	1150	1200	1100	1200	1770	906	940	719	989	1170
5	1210	1190	1130	1180	1110	1440	1770	906	996	695	996	841
6	1210	1200	1150	1200	1110	1440	1730	906	989	866	989	736
7	1200	1190	1180	1190	1120	1440	1180	913	996	347	947	742
8	1210	1200	1150	1200	1130	1440	1120	899	892	351	853	784
9	1210	1190	1200	1180	1110	1440	1120	815	626	351	853	724
10	1200	1200	1230	1200	1120	1440	1150	809	626	344	989	626
11	1200	1190	1230	1200	1120	1440	1150	899	621	452	996	667
12	1210	1200	1230	1180	1200	1440	1150	1000	626	448	961	766
13	1200	1180	1230	1200	1190	1440	1170	989	760	473	985	760
14	1200	1200	1250	1180	1200	1440	1160	954	662	439	985	760
15	1200	1190	1210	1180	1330	1440	1170	906	621	486	853	803
16	1200	1200	1410	1200	1330	1440	982	947	626	695	828	803
17	1210	1090	1210	1180	1500	1440	1660	899	667	766	1210	809
18	1190	1200	1460	1200	1320	1440	2150	996	713	631	585	853
19	1190	1190	1430	1180	1180	1440	778	954	713	631	1120	713
20	1200	1200	1200	1200	1160	1440	853	899	621	719	982	719
21	1200	1090	1210	1190	1210	1440	1080	906	621	719	989	803
22	1190	1110	1200	1200	1250	1440	1090	899	673	760	847	809
23	1200	1100	1380	1190	1260	1440	996	860	667	766	853	809
24	1190	1110	1180	1200	1390	1440	982	803	673	713	982	803
25	1200	1090	1200	1190	1440	1440	947	809	673	673	989	809
26	1180	1110	1200	1200	1440	1820	940	940	719	673	982	713
27	1200	1090	1190	1190	1420	2510	989	947	580	760	940	719
28	1190	1110	1200	1120	1460	2740	982	954	580	790	940	809
29	1200	1090	1230	1040	---	2740	996	809	719	719	853	803
30	1190	1110	1430	1030	---	2800	996	667	809	860	853	809
31	1200	---	1200	996	---	2720	---	673	---	760	1080	---
TOTAL	37190	34800	38050	36386	34350	51260	39151	27517	21689	19866	29094	24842
MEAN	1200	1160	1227	1174	1227	1654	1305	888	723	641	939	828
MAX	1230	1200	1460	1210	1500	2800	2600	1000	996	866	1210	1230
MIN	1150	1090	1110	996	1000	1200	778	667	580	344	585	626
AC-FT	73770	69030	75470	72170	68130	101700	77660	54580	43020	39400	57710	49270
CAL YR 1980	TOTAL	539554	MEAN	1474	MAX	4500	MIN	333	AC-FT	1070000		
WTR YR 1981	TOTAL	394195	MEAN	1080	MAX	2800	MIN	344	AC-FT	781900		

KLAMATH RIVER BASIN

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 mi² (11,137 km²). PERIOD OF RECORD, October 1967 to current year. GAGE, pressure device and telemark read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.). Reservoir is formed by gravity-type dam completed in 1922. Normal capacity at elevation 2,607.5 ft (794.77 m) is 46,867 acre-ft (57.8 hm³). Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 46,818 acre-ft (57.7 hm³) June 24, 1969, elevation, 2,607.45 ft (794.751 m); minimum, 30,360 acre-ft (37.4 hm³) Aug. 19, 1971, elevation, 2,589.24 ft (789.200 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 46,491 acre-ft (57.3 hm³) Sept. 14, elevation, 2,607.12 ft (794.650 m); minimum 41,650 acre-ft (51.4 hm³) Apr. 6, elevation, 2,602.09 ft (793.117 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 mi² (11,844 km²). PERIOD OF RECORD, October 1967 to current year. GAGE, pressure device and telemark read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.). Reservoir is formed by earth- and rockfill dam completed in 1962. Capacity is 58,794 acre-ft (72.5 hm³) at elevation 2,328.0 ft (709.57 m), crest of spillway. Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 61,776 acre-ft (76.2 hm³) Mar. 3, 1972, elevation, 2,330.96 ft (710.477 m); minimum, 50,103 acre-ft (61.8 hm³) Dec. 9, 1968, elevation, 2,318.40 ft (706.648 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 59,329 acre-ft (73.2 hm³) Mar. 31, elevation, 2,328.54 ft (709.739 m); minimum, 50,613 acre-ft (62.4 hm³) Sept. 14, elevation, 2,319.01 ft (706.834 m).

MONTHEND ELEVATION NGVD AND CONTENTS AT 0800, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
		11511400 COPCO LAKE			11516510 IRON GATE RESERVOIR	
Sept. 30.....	2603.70	43173	--	2325.69	56576	--
Oct. 31.....	2604.36	43804	+631	2325.83	56707	+131
Nov. 30.....	2604.00	43458	-346	2325.59	56482	-225
Dec. 31.....	2603.04	42545	-913	2326.19	57048	+566
CAL YR 1980.....	--	--	-57	--	--	+258
Jan. 31.....	2603.56	43039	+494	2326.17	57029	-19
Feb. 28.....	2603.32	42811	-228	2325.58	56473	-556
Mar. 31.....	2603.47	42954	+143	2328.54	59328	+2855
Apr. 30.....	2602.93	42441	-513	2326.18	57038	-2290
May 31.....	2602.98	42488	+47	2325.68	56566	-472
June 30.....	2604.54	43976	+1488	2326.88	57707	+1141
July 31.....	2603.07	42574	-1402	2326.15	57010	-697
Aug. 31.....	2602.31	41857	-717	2325.14	56060	-950
Sept. 30.....	2603.06	42564	+707	2324.25	55235	-825
WTR YR 1981.....	--	--	-609	--	--	-1341

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 mi² (11,990 km²), approximately (not including Lost River and Lower Klamath Lake basins).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 2,162.44 ft (659.112 m) National Geodetic Vertical Datum of 1929 (levels by Pacific Power and Light Co.).

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake, capacity, 523,700 acre-ft (646 hm³), Iron Gate Reservoir (station 11516510), other smaller reservoirs, and diversions above station.

AVERAGE DISCHARGE.--21 years, 2,149 ft³/s (60.86 m³/s), 1,557,000 acre-ft/yr (1.92 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft³/s (833 m³/s) Dec. 22, 1964, gage height, 13.63 ft (4.154 m), from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 647 ft³/s (18.3 m³/s) Oct. 30, Nov. 6, 1960, Sept. 24, Oct. 1, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,120 ft³/s (88.4 m³/s) Mar. 31, gage height, 5.28 ft (1.609 m); minimum daily, 723 ft³/s (20.5 m³/s) June 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1350	1340	1340	1490	1340	1780	2930	1040	756	734	1030	1370
2	1350	1340	1400	1490	1340	1720	2840	1030	741	736	1030	1370
3	1350	1340	1380	1490	1340	1660	2430	1020	742	740	1030	1370
4	1350	1340	1370	1490	1340	1690	2170	1020	743	745	1030	1280
5	1340	1340	1360	1420	1340	1670	2140	1020	744	737	1030	879
6	1340	1340	1350	1340	1340	1670	1980	1020	749	738	1030	876
7	1340	1340	1350	1340	1340	1660	1380	1020	817	745	1030	874
8	1340	1340	1490	1340	1340	1660	1330	1030	917	744	1030	862
9	1340	1340	1560	1340	1340	1660	1330	1030	767	743	1030	853
10	1340	1340	1510	1340	1340	1660	1330	1030	757	740	1030	852
11	1340	1350	1510	1340	1340	1650	1330	1020	755	740	1030	851
12	1350	1350	1510	1340	1340	1630	1330	1020	755	739	1030	851
13	1340	1350	1510	1340	1350	1640	1330	1020	759	738	1030	841
14	1360	1340	1510	1340	1400	1630	1330	1030	753	736	1030	846
15	1340	1340	1510	1340	1470	1630	1320	1030	748	733	1030	848
16	1340	1340	1510	1340	1460	1630	1320	1030	748	732	1030	848
17	1340	1340	1510	1340	1660	1630	1320	1030	738	731	1030	846
18	1340	1340	1510	1340	1800	1630	1320	1040	746	730	1030	846
19	1340	1340	1520	1340	1810	1630	1330	1050	745	731	1030	847
20	1340	1340	1520	1350	1800	1640	1330	1040	744	733	1040	847
21	1340	1340	1520	1340	1800	1640	1330	1040	733	733	1040	846
22	1340	1360	1520	1340	1790	1640	1320	1040	740	733	1040	844
23	1340	1350	1470	1340	1790	1640	1320	1040	735	733	1040	842
24	1340	1350	1390	1340	1790	1640	1320	1040	733	733	1040	847
25	1340	1350	1390	1340	1790	1640	1330	1040	723	734	1040	849
26	1340	1340	1430	1340	1790	1700	1350	1040	725	733	1040	835
27	1340	1340	1500	1350	1790	1800	1330	1040	727	733	1030	841
28	1340	1340	1500	1360	1790	2450	1320	1040	729	733	1030	837
29	1340	1340	1500	1350	---	2930	1320	1040	729	733	1040	836
30	1340	1340	1490	1350	---	3010	1320	1040	730	733	1030	856
31	1340	---	1490	1340	---	3080	---	1040	---	741	1040	---
TOTAL	41610	40280	45430	42280	43160	56340	46380	32010	22528	22817	32020	27490
MEAN	1342	1343	1465	1364	1541	1817	1546	1033	751	736	1033	916
MAX	1360	1360	1560	1490	1810	3080	2930	1050	917	745	1040	1370
MIN	1340	1340	1340	1340	1340	1630	1320	1020	723	730	1030	835
AC-FT	82530	79900	90110	83860	85610	111800	91990	63490	44680	45260	63510	54530
CAL YR 1980	TOTAL	658153	MEAN	1798	MAX	7120	MIN	725	AC-FT	1305000		
WTR YR 1981	TOTAL	452345	MEAN	1239	MAX	3080	MIN	723	AC-FT	897200		

KLAMATH RIVER BASIN

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA--Continued

WATER-QUALITY RECORDS

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

CHEMICAL ANALYSES: Water years 1962 to current year.

WATER TEMPERATURES: Water years 1963 to June 1980.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1962 to June 1980.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM FLOW, INST-CFS	SPECIFIC COND MICROMHO	PH FIELD (UNITS)	TEMP WATER (DEG C)	TURB- IDITY (NTU)	OXYGEN DISS (MG/L)	COD LOWLEVEL (MG/L)	BOD 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM CA,DISS (MG/L)
80/10/16	09 35	1340	200	7.5	15.0	1.0	8.2	12		59	12
80/11/04	07 30	1340		7.4	10.5	2.0	8.4	18	1.7	59	12
80/12/10	07 45	1510	192	7.7	5.5	5.0	9.2	19			
81/01/05	12 15	1420	184	7.3	6.5	5.0	10.9	17			
81/02/04	08 35	1340	209	7.4	5.0	4.0	10.9	18		64	14
81/03/04	08 15	1710	242	7.5	7.0	11	10.0	20			
81/04/08	10 15	1330	233	8.3	12.5	4.0	11.4	25	2.5	73	16
81/05/12	12 25	1020	186	8.3	17.0	3.0	10.9	21			
81/06/03	07 20	743	184	7.7	16.5	2.0	8.6	15	1.5	59	12
81/07/21	12 25	733	214	8.2	23.0	1.0	9.3				
81/08/18	10 25	1040	216	8.3	24.0	4.0	8.8				
81/09/02	12 35	1370	193	8.3	22.0	2.0	8.7				

DATE	TIME	MGNSIUM MG,DISS (MG/L)	SODIUM NA,DISS (MG/L)	PTSIUM K,DISS (MG/L)	ALKA- LINITY (MG/L)	SULFATE SO4-DISS (MG/L)	CHLORIDE TOTAL (MG/L)	ROE DISS 180 C (MG/L)	RESIDUE TOT NFLT (MG/L)	NO2+N03 N-DISS (MG/L)
80/10/16	09 35	7	18	3.0	69		5		1	0.70
80/11/04	07 30	7	16	2.7	70	11	4	152	6	0.94
80/12/10	07 45								3	0.95
81/01/05	12 15								1	0.98
81/02/04	08 35	7	17	2.5	72	16	5		9	1.30
81/03/04	08 15								12	0.73
81/04/08	10 15	8	20	3.4	77	29	5	170	6	0.37
81/05/12	12 25								6	0.29
81/06/03	07 20	7	15	2.4	69		4		2	0.24
81/07/21	12 25									
81/08/18	10 25									
81/09/02	12 35									

DATE	TIME	AMMONIA N DISS (MG/L)	AMMONIA+ ORG TOT N(MG/L)	PHOS-TOT AS P (MG/L)	PHOS-DIS ORTHO P (MG/L)
80/10/16	09 35	0.11	1.30	0.23	0.17
80/11/04	07 30	0.14	1.10	0.24	0.19
80/12/10	07 45		0.80	0.16	
81/01/05	12 15		0.90	0.14	
81/02/04	08 35	0.03	0.80	0.14	0.10
81/03/04	08 15	0.08	0.90	0.14	0.08
81/04/08	10 15		0.80	0.11	0.05
81/05/12	12 25		1.40	0.14	
81/06/03	07 20	0.05	0.60	0.16	0.12
81/07/21	12 25				
81/08/18	10 25				
81/09/02	12 35				

DATE	TIME	ARSENIC AS,DISS (UG/L)	BARIUM BA,DISS (UG/L)	BORON B,DISS (UG/L)	CADMIUM CD,DISS (UG/L)	CHROMIUM CR,DISS (UG/L)	COPPER CU,DISS (UG/L)	IRON FE,DISS (UG/L)	LEAD PB,DISS (UG/L)	MANGNESE MN,DISS (UG/L)	MERCURY HG,TOTAL (UG/L)
80/10/16	09 35			100							
80/11/04	07 30	10	0	100	0	0	0	20	0	20	0.0
81/02/04	08 35			100							
81/04/08	10 15	0	0	200	0	0	10	50	0	10	0.0
81/06/03	07 20	0	0	100	0	0	10	40	0	10	0.0

DATE	TIME	SELENIUM SE,DISS (UG/L)
80/10/16	09 35	
80/11/04	07 30	10
81/02/04	08 35	
81/04/08	10 15	10
81/06/03	07 20	10

11517500 SHASTA RIVER NEAR YREKA, CA

LOCATION.--Lat 41°49'23", long 122°35'40", in SE¼NE¼ sec.24, T.46 N., R.7 W., Siskiyou County, Hydrologic Unit 18010207, on right bank 0.5 mi (0.8 km) upstream from mouth, and 7 mi (11 km) north of Yreka.

DRAINAGE AREA.--793 mi² (2,054 km²).

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 hm³). Many diversions above station for irrigation.

AVERAGE DISCHARGE.--44 years, 184 ft³/s (5.211 m³/s), 133,300 acre-ft/yr (164 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft³/s (609 m³/s) Dec. 22, 1964, gage height, 12.92 ft (3.938 m) in gage well, 13.85 ft (4.221 m) from floodmarks, from rating curve extended above 4,100 ft³/s (116 m³/s) on basis of slope-area measurement of maximum flow; minimum daily, 1.5 ft³/s (0.042 m³/s) Aug 24, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 428 ft³/s (12.1 m³/s) Dec. 3, gage height, 4.13 ft (1.259 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	175	184	184	206	203	175	97	61	14	16	24
2	89	172	268	184	198	200	169	90	47	16	17	19
3	89	173	395	184	194	197	148	83	41	18	12	9.9
4	91	177	334	182	190	217	127	88	40	18	14	5.2
5	86	174	260	181	187	234	93	61	40	17	16	4.5
6	87	178	231	179	187	224	102	52	40	17	14	5.2
7	98	184	215	178	185	212	93	53	39	12	8.3	8.3
8	102	185	198	178	184	201	95	54	44	14	4.5	12
9	109	181	190	178	184	197	95	44	44	17	2.2	16
10	116	181	185	177	184	192	97	36	38	19	6.7	19
11	124	179	184	175	200	185	95	29	42	20	8.3	22
12	133	178	183	175	198	184	86	29	40	21	6.7	20
13	154	178	180	175	195	185	73	30	45	14	7.5	22
14	153	179	178	175	327	189	60	39	52	11	5.9	20
15	185	180	179	175	303	183	55	50	51	14	6.7	20
16	176	181	190	175	271	181	61	49	42	9.9	3.0	24
17	172	179	191	175	332	182	45	54	41	9.9	6.7	20
18	167	180	188	173	286	179	55	55	43	9.1	4.5	16
19	171	181	187	170	245	178	127	145	41	7.5	8.3	13
20	167	181	188	169	241	176	169	175	37	4.5	13	12
21	178	184	194	169	223	174	163	172	32	2.2	5.9	15
22	178	197	198	173	211	178	134	145	32	9.9	3.8	8.3
23	176	199	192	181	207	181	120	120	29	12	4.5	25
24	175	194	188	204	206	179	100	90	19	8.3	1.5	28
25	178	193	186	198	235	175	112	112	20	9.9	3.8	30
26	187	188	185	190	239	187	226	112	12	15	12	42
27	182	184	187	186	215	187	252	97	15	17	9.1	46
28	182	184	188	204	205	181	203	85	18	16	14	95
29	178	184	185	246	---	178	166	73	13	15	20	97
30	178	184	184	263	---	175	129	69	13	16	18	102
31	178	---	184	219	---	175	---	62	---	19	21	---
TOTAL	4531	5467	6379	5775	6238	5869	3625	2450	1071	423.2	294.9	800.4
MEAN	146	182	206	186	223	189	121	79.0	35.7	13.7	9.51	26.7
MAX	187	199	395	263	332	234	252	175	61	21	21	102
MIN	86	172	178	169	184	174	45	29	12	2.2	1.5	4.5
AC-FT	8990	10840	12650	11450	12370	11640	7190	4860	2120	839	585	1590
CAL YR 1980	TOTAL	69364.0	MEAN 190	MAX 2410	MIN 11	AC-FT 137600						
WTR YR 1981	TOTAL	42923.5	MEAN 118	MAX 395	MIN 1.5	AC-FT 85140						

KLAMATH RIVER BASIN

11519500 SCOTT RIVER NEAR FORT JONES, CA

LOCATION.--Lat 41°38'27", long 123°00'50", in NE¼NE¼ sec.29, T.44 N., R.10 W., Siskiyou County, Hydrologic Unit 18010208, on right bank 1.8 mi (2.9 km) upstream from Snow Creek, and 9.0 mi (14.5 km) west of Fort Jones.

DRAINAGE AREA.--653 mi² (1,691 km²).

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 km²) above station.

AVERAGE DISCHARGE.--40 years, 650 ft³/s (18.41 m³/s), 470,900 acre-ft/yr (581 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,600 ft³/s (1,550 m³/s) Dec. 22, 1964, gage height, 25.34 ft (7.724 m) from floodmarks, from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of slope-area measurement at 21.40 ft (6.523 m), site and datum then in use; minimum daily, 5.0 ft³/s (0.15 m³/s) on several days during August 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 3	0500	2,490 70.5	9.15 2.789	Feb. 17	0415	*3,450 97.7	10.05 3.063
Jan. 23	0700	2,950 83.5	9.60 2.926				

Minimum daily, 5.0 ft³/s (0.14 m³/s) on several days during August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	65	79	415	478	726	461	866	302	37	12	7.6
2	34	65	610	368	450	672	450	745	274	33	12	7.5
3	34	65	2170	336	427	644	430	617	256	33	10	7.7
4	34	66	1640	319	402	657	409	542	231	28	9.9	7.0
5	34	66	883	288	394	658	386	475	214	28	9.5	6.9
6	34	72	552	265	375	617	375	421	238	28	9.9	6.3
7	34	72	395	244	356	577	366	387	189	28	9.5	6.3
8	34	72	297	227	340	563	341	361	186	28	9.3	6.9
9	34	76	242	212	332	551	333	302	175	27	8.4	6.9
10	31	78	209	198	317	543	330	294	162	27	7.8	6.3
11	30	80	184	189	314	531	315	318	153	27	7.7	6.3
12	33	80	169	176	322	531	301	314	147	27	7.0	6.3
13	37	76	150	168	488	560	288	259	141	27	6.8	6.7
14	41	75	135	162	2520	564	274	245	133	27	6.5	7.4
15	45	75	126	156	1710	534	277	252	126	27	6.3	8.0
16	45	75	129	151	1750	535	281	259	118	26	6.3	8.4
17	46	75	143	152	2900	513	323	249	109	22	5.9	7.6
18	50	75	150	164	1980	502	372	302	100	22	5.0	7.0
19	50	73	153	166	1910	480	493	391	94	22	5.0	7.0
20	50	73	153	176	1630	455	764	423	90	22	5.0	7.0
21	51	74	256	289	1360	440	640	383	88	21	5.0	7.4
22	51	75	645	817	1190	428	675	343	80	21	5.0	7.8
23	53	78	486	2220	1110	420	726	322	66	20	5.0	7.8
24	54	78	390	1080	1010	402	895	326	63	20	5.9	7.8
25	56	78	952	805	952	461	807	446	58	18	6.7	7.8
26	58	78	1120	677	918	606	748	544	54	14	7.0	9.0
27	58	78	901	651	877	549	640	496	54	14	7.0	12
28	58	78	809	715	788	506	558	423	51	14	7.0	13
29	60	78	634	731	---	502	612	378	45	13	6.8	13
30	62	78	534	605	---	499	770	352	38	13	6.3	13
31	63	---	469	530	---	484	---	318	---	13	7.2	---
TOTAL	1388	2227	15765	13652	27600	16710	14640	12353	4035	727	228.7	239.7
MEAN	44.8	74.2	509	440	986	539	488	398	135	23.5	7.38	7.99
MAX	63	80	2170	2220	2900	726	895	866	302	37	12	13
MIN	30	65	79	151	314	402	274	245	38	13	5.0	6.3
AC-FT	2750	4420	31270	27080	54740	33140	29040	24500	8000	1440	454	475
CAL YR 1980	TOTAL	235092.0	MEAN 642	MAX 11700	MIN	27	AC-FT 466300					
WTR YR 1981	TOTAL	109565.4	MEAN 300	MAX 2900	MIN	5.0	AC-FT 217300					

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA

LOCATION.--Lat 41°51'14", long 123°13'52", in SW¼SW¼ sec.3, T.46 N., R.12 W., Siskiyou County, Hydrologic Unit 18010206, Klamath National Forest, on left bank 0.4 mi (0.6 km) upstream from Bittenbender Creek, 1.4 mi (2.3 km) downstream from Grider Creek, and 2.2 mi (3.5 km) west of Seiad Valley.

DRAINAGE AREA.--6,940 mi² (17,975 km²), approximately (not including Lost River or Lower Klamath Lake basins).

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 good. Flow regulated considerably by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--43 years, 4,025 ft³/s (114.0 m³/s), 2,916,000 acre-ft/yr (3.60 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165,000 ft³/s (4,670 m³/s) Dec. 23, 1964, gage height, 33.75 ft (10.287 m) from floodmarks, from rating curve extended above 49,000 ft³/s (1,390 m³/s) on basis of slope-area measurements at gage heights 20.1 ft (6.13 m) and 29.2 ft (8.90 m); minimum daily, 320 ft³/s (9.06 m³/s) Nov. 25, 1917.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,250 ft³/s (205 m³/s) Feb. 14, gage height, 7.49 ft (2.283 m); minimum daily, 808 ft³/s (22.9 m³/s) July 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	1690	1800	2660	2480	3340	4200	2790	1640	914	866	1170
2	1550	1710	3590	2580	2410	3260	4120	2480	1380	913	1070	1350
3	1540	1690	6070	2530	2350	3090	3740	2300	1330	913	1090	1360
4	1550	1690	5160	2500	2320	3150	3300	2170	1300	913	1090	1360
5	1540	1690	3550	2440	2320	3190	3110	2050	1280	913	1110	1180
6	1540	1690	2850	2260	2290	3110	3090	1960	1270	906	1110	956
7	1550	1800	2540	2210	2250	3050	2620	1890	1250	906	1100	948
8	1560	1940	2350	2180	2230	2990	2250	1860	1380	899	1100	948
9	1540	1810	2500	2160	2210	2960	2220	1830	1450	898	1090	940
10	1520	1780	2360	2140	2190	2930	2180	1790	1240	893	1090	927
11	1540	1770	2310	2110	2210	2890	2160	1750	1210	893	1090	927
12	1630	1760	2270	2090	2250	2850	2120	1750	1200	893	1080	920
13	1640	1750	2240	2070	2600	2890	2100	1740	1190	891	1080	915
14	1660	1740	2200	2060	5640	2890	2070	1720	1180	874	1080	913
15	1670	1730	2190	2040	5030	2850	2050	1710	1170	872	1080	907
16	1660	1730	2210	2040	4910	2800	2060	1730	1150	865	1080	899
17	1650	1730	2250	2050	6590	2790	2070	1730	1120	854	1080	899
18	1640	1730	2250	2060	5560	2750	2130	1820	1100	851	1080	899
19	1640	1720	2250	2050	5430	2700	2360	1960	1090	839	1080	899
20	1650	1720	2250	2060	5130	2660	2820	2030	1080	839	1070	899
21	1650	1750	2430	2110	4550	2600	2750	1990	1060	839	1070	903
22	1660	1980	2970	2420	4220	2580	2730	1940	1050	827	1070	906
23	1660	1890	2820	4430	4000	2580	2740	1880	1030	826	1070	907
24	1660	1850	2550	3340	3860	2600	2900	1850	1000	815	1070	919
25	1690	1810	3360	2840	3770	2640	2910	1920	990	814	1070	918
26	1690	1790	3700	2680	3690	2850	2880	2020	961	814	1080	940
27	1690	1780	3470	2690	3570	2930	2860	1980	948	814	1080	1010
28	1680	1770	3380	2800	3440	3810	2710	1890	948	811	1080	1060
29	1680	1780	3060	2910	---	4000	2650	1810	946	808	1090	1040
30	1670	1790	2870	2760	---	4180	2780	1770	934	808	1080	1030
31	1670	---	2760	2610	---	4320	---	1740	---	814	1080	---
TOTAL	50220	53060	88560	75880	99500	94230	80680	59850	34877	26729	33356	29849
MEAN	1620	1769	2857	2448	3554	3040	2689	1931	1163	862	1076	995
MAX	1690	1980	6070	4430	6590	4320	4200	2790	1640	914	1110	1360
MIN	1520	1690	1800	2040	2190	2580	2050	1710	934	808	866	899
AC-FT	99610	105200	175700	150500	197400	186900	160000	118700	69180	53020	66160	59210
CAL YR 1980	TOTAL	1283603	MEAN	3507	MAX	35200	MIN	980	AC-FT	2546000		
WTR YR 1981	TOTAL	726791	MEAN	1991	MAX	6590	MIN	808	AC-FT	1442000		

11521500 INDIAN CREEK NEAR HAPPY CAMP, CA

LOCATION.--Lat 41°50'07", long 123°22'55", in SW¼SW¼ sec.26, T.17 N., R.7 E., Siskiyou County, Hydrologic Unit 18010209, on left bank 0.2 mi (0.3 km) upstream from Slater Creek, 3.0 mi (4.8 km) north of Happy Camp, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--120 mi² (311 km²).

PERIOD OF RECORD.--September 1911 to September 1921 (fragmentary), December 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1635: 1957-58.

GAGE.--Water-stage recorder. Datum of gage is 1,198.37 ft (365.263 m) National Geodetic Vertical Datum of 1929.

Prior to December 1956, nonrecording gages at sites 1.0 mi (1.6 km) upstream at different datums.

December 1956 to Sept. 20, 1969, water-stage recorder at site 0.8 mi (1.3 km) upstream at different datum.

REMARKS.--Records good. Small diversions above station for irrigation.

AVERAGE DISCHARGE.--27 years (water years 1912-14, 1958-81), 423 ft³/s (11.98 m³/s), 306,500 acre-ft/yr (378 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft³/s (1,100 m³/s) Dec. 22, 1964, gage height, 24.3 ft (7.41 m) from floodmarks, present site and datum, from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of slope-area measurement at gage height 29.0 ft (8.84 m), previous site and datum; minimum observed, 20 ft³/s (0.57 m³/s) Aug. 19 to Sept. 6, 1914.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 21, 1955, reached a stage of 29.0 ft (8.84 m), at 1956-69 site and datum, from floodmarks, discharge, 23,000 ft³/s (651 m³/s) on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 2	1715	*5,780 164	10.75 3.277
Dec. 25	0700	2,490 70.5	8.24 2.512
Feb. 13	2400	3,360 95.2	9.00 2.743

Minimum daily, 24 ft³/s (0.68 m³/s) Sept. 15-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	59	111	333	348	398	440	219	111	67	41	30
2	40	70	3720	295	318	384	407	197	110	66	40	30
3	39	58	1790	272	299	380	383	186	105	63	40	29
4	39	54	1310	249	281	412	359	178	100	62	41	28
5	39	52	656	229	270	375	348	171	98	64	40	29
6	38	52	453	213	259	349	341	167	99	68	39	28
7	38	167	347	200	245	332	322	163	106	70	37	27
8	38	182	274	192	231	312	307	159	141	64	36	26
9	38	128	234	183	227	293	297	160	128	61	35	26
10	38	104	212	175	224	285	282	154	114	60	34	26
11	42	85	190	167	241	274	276	148	107	59	33	26
12	76	75	178	160	266	278	271	144	104	58	32	26
13	73	68	168	154	1340	274	262	140	109	57	32	26
14	101	66	158	149	2090	259	259	138	110	55	31	25
15	72	63	158	145	1110	304	263	145	102	55	31	24
16	59	61	179	145	1680	308	256	146	96	53	32	24
17	54	59	184	159	1280	293	262	144	94	52	31	24
18	52	58	180	152	1030	285	276	191	92	51	31	25
19	51	57	170	159	1100	285	362	173	91	50	31	27
20	50	56	167	163	918	293	317	156	88	49	31	28
21	49	81	402	197	750	312	290	144	84	48	32	29
22	49	245	506	912	660	337	296	138	82	47	32	29
23	48	148	382	900	582	320	300	137	81	46	31	29
24	49	125	497	585	542	308	300	141	78	45	31	29
25	53	102	1690	455	490	521	264	159	76	44	32	30
26	51	90	872	428	465	547	252	146	76	44	32	37
27	51	82	906	543	440	516	229	135	73	43	32	103
28	51	76	735	588	421	490	215	126	71	42	30	63
29	49	84	569	529	---	526	228	121	69	41	30	48
30	49	107	456	445	---	480	237	117	68	41	30	42
31	48	---	385	389	---	465	---	114	---	40	31	---
TOTAL	1564	2714	18239	9865	18107	11195	8901	4757	2863	1665	1041	973
MEAN	50.5	90.5	588	318	647	361	297	153	95.4	53.7	33.6	32.4
MAX	101	245	3720	912	2090	547	440	219	141	70	41	103
MIN	38	52	111	145	224	259	215	114	68	40	30	24
AC-FT	3100	5380	36180	19570	35920	22210	17660	9440	5680	3300	2060	1930
CAL YR 1980 TOTAL	161083			MEAN 440	MAX 7910	MIN 38	AC-FT 319500					
WTR YR 1981 TOTAL	81884			MEAN 224	MAX 3720	MIN 24	AC-FT 162400					

11522500 SALMON RIVER AT SOMES BAR, CA

LOCATION.--Lat 41°22'40", long 123°28'35", in NE¼ sec.3, T.11 N., R.6 E., Siskiyou County, Hydrologic Unit 18010210, Klamath National Forest, on left bank at Somes Bar, 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--751 mi² (1,945 km²).

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 good. No storage or large diversion above station.

AVERAGE DISCHARGE.--58 years, 1,781 ft³/s (50.44 m³/s), 1,290,000 acre-ft/yr (1.59 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133,000 ft³/s (3,770 m³/s) Dec. 22, 1964, gage height, 46.6 ft (14.20 m) present site and datum, from floodmarks, from rating curve extended above 33,000 ft³/s (935 m³/s); minimum, 70 ft³/s (1.98 m³/s) Aug. 25, Sept. 4, 5, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10,000 ft³/s (283 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Dec. 2	2245	*12900	365	11.24	2.426
Feb. 16	2245	12100	343	10.90	3.322

Minimum daily discharge, 120 ft³/s (3.40 m³/s) Sept. 16-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	219	437	1280	1500	1900	2030	1630	1040	388	185	136
2	168	284	6670	1160	1360	1810	1910	1530	980	383	182	136
3	164	276	7520	1080	1240	1760	1830	1470	940	365	179	136
4	156	244	4950	1040	1160	1930	1730	1380	885	353	177	134
5	153	229	2390	949	1120	1750	1720	1270	907	345	176	134
6	153	220	1650	893	1060	1680	1710	1180	892	349	171	132
7	150	585	1270	846	1000	1630	1630	1110	854	346	166	131
8	150	1160	1040	807	962	1560	1570	1060	1010	328	160	127
9	148	635	922	772	945	1500	1530	1070	1020	311	155	124
10	148	453	834	737	914	1460	1460	1080	854	306	152	124
11	155	367	773	703	949	1440	1400	1070	770	300	148	124
12	258	324	727	671	986	1440	1350	1020	726	291	148	124
13	300	299	700	644	2570	1500	1300	1000	732	287	146	123
14	372	282	1200	623	7050	1420	1310	1020	706	281	146	122
15	312	272	1400	605	3840	1450	1370	1040	649	273	146	121
16	256	261	1740	599	6110	1490	1350	987	618	263	144	120
17	232	254	1730	647	7050	1370	1430	963	624	257	144	120
18	221	247	1640	654	4540	1350	1530	1910	604	252	144	120
19	215	243	1570	680	4380	1310	2070	1720	633	244	141	120
20	210	239	1500	715	3770	1310	1860	1440	672	236	141	122
21	207	278	2290	961	3240	1240	1810	1220	599	233	143	126
22	203	712	3330	2320	3100	1300	2040	1130	583	230	144	126
23	199	562	2510	2950	2800	1290	2190	1080	540	222	141	126
24	200	465	2270	2010	2600	1240	2110	1200	519	217	140	126
25	232	388	5200	1590	2300	2040	1910	1750	505	212	140	127
26	230	347	4650	1560	2210	2580	1720	1630	502	211	140	140
27	218	323	3500	1910	2100	2410	1540	1370	483	203	140	288
28	214	307	2500	2450	2000	2260	1490	1290	459	198	140	435
29	208	337	1950	2300	---	2380	1680	1210	429	192	138	250
30	202	434	1620	2000	---	2220	1710	1130	409	187	136	199
31	198	---	1430	1750	---	2100	---	1100	---	187	136	---
TOTAL	6400	11246	71913	37906	72856	52120	50290	39060	21144	8450	4689	4473
MEAN	206	375	2320	1223	2602	1681	1676	1260	705	273	151	149
MAX	372	1160	7520	2950	7050	2580	2190	1910	1040	388	185	435
MIN	148	219	437	599	914	1240	1300	963	409	187	136	120
AC-FT	12690	22310	142600	75190	144500	103400	99750	77480	41940	16760	9300	8870
CAL YR 1980	TOTAL	669282	MEAN	1829	MAX	23500	MIN	148	AC-FT	1328000		
WTR YR 1981	TOTAL	380547	MEAN	1043	MAX	7520	MIN	120	AC-FT	754000		

KLAMATH RIVER BASIN

11523000 KLAMATH RIVER AT ORLEANS, CA

LOCATION.--Lat 41°18'13", long 123°32'00", in SW¼NE¼ sec.31, T.11 N., R.6 E., Humboldt County, Hydrologic Unit 18010209, Six Rivers National Forest, on right bank at Orleans, 25 ft (8 m) upstream from highway bridge, and 0.2 mi (0.3 km) downstream from Cheenitch Creek.

DRAINAGE AREA.--8,475 mi² (21,950 km²), not including Lost River or Lower Klamath Lake basins.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1965, published as "at Somesbar."

REVISED RECORDS.--WSP 1565: 1935(M), 1949.

GAGE.--Water-stage recorder. Datum of gage is 355.98 ft (108,503 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1965, at site 6.7 mi (10.8 km) upstream at datum 90.68 ft (27.639 m) higher.

REMARKS.--Records good. Flow considerably regulated by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--54 years, 8,054 ft³/s (228.1 m³/s), 5,835,000 acre-ft/yr (7.19 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 307,000 ft³/s (8,690 m³/s) Dec. 22, 1964, gage height, 76.5 ft (23.32 m), from floodmarks, site and datum then in use, from rating curve extended above 80,000 ft³/s (2,270 m³/s) by slope-conveyance study; minimum daily, 320 ft³/s (9.06 m³/s) Aug. 25, Sept. 1, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40,300 ft³/s (1,140 m³/s) Dec. 2 (2130 hrs), gage height, 14.67 ft (4.471 m), no other peak above base of 40,000 ft³/s (1,130 m³/s); minimum daily 1,230 ft³/s (34.8 m³/s) Sept. 16-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1930	2120	2710	6330	6530	7980	9550	6470	3410	1900	1330	1320
2	1930	2250	24300	5910	6090	7710	8900	5700	3280	1880	1320	1390
3	1930	2190	25900	5650	5810	7460	8500	5110	3060	1840	1390	1460
4	1910	2130	21500	5480	5590	7930	7780	4780	2940	1750	1390	1450
5	1900	2110	12400	5230	5450	7590	7350	4540	2890	1690	1390	1450
6	1900	2100	8560	5020	5330	7300	7160	4310	2860	1680	1380	1340
7	1900	2850	6960	4770	5150	7090	6840	4090	2810	1660	1380	1270
8	1910	4400	6020	4660	5030	6850	6100	3970	2990	1650	1370	1260
9	1900	3240	5530	4550	4950	6630	5840	3940	3140	1620	1360	1260
10	1910	2740	5320	4460	4870	6470	5660	3880	2920	1610	1350	1250
11	1930	2480	5020	4360	4960	6340	5510	3810	2750	1600	1350	1250
12	2170	2350	4840	4270	5130	6240	5420	3760	2690	1580	1340	1250
13	2240	2290	4680	4190	10200	6320	5260	3700	2670	1580	1340	1240
14	2470	2240	4520	4120	25100	6170	5200	3670	2640	1560	1340	1240
15	2300	2220	4490	4070	18700	6340	5250	3680	2600	1540	1340	1240
16	2150	2200	4850	4050	18600	6640	5180	3700	2530	1530	1330	1230
17	2100	2180	4880	4140	23100	6280	5250	3630	2460	1510	1330	1230
18	2080	2170	4780	4130	18300	6150	5380	4700	2400	1500	1330	1230
19	2070	2160	4670	4130	18000	6070	6320	4660	2360	1480	1330	1230
20	2060	2150	4590	4220	16800	6130	6420	4350	2330	1470	1330	1240
21	2050	2240	5850	4520	14200	6040	6340	4060	2280	1460	1340	1240
22	2050	4140	8670	8120	12500	6360	6470	3890	2230	1450	1340	1240
23	2050	3410	7390	12400	11300	6150	6790	3790	2180	1430	1330	1240
24	2050	2970	6440	9570	10600	5970	7170	3820	2140	1410	1330	1240
25	2100	2650	15000	7290	9700	8000	6610	4370	2110	1390	1330	1250
26	2100	2500	13000	6910	9350	10100	6270	4390	2050	1380	1330	1270
27	2090	2400	11300	8090	8810	9590	5930	4080	2020	1370	1330	1560
28	2090	2340	10700	9620	8370	8990	5690	3850	1990	1360	1330	1710
29	2070	2380	8720	9380	---	9850	6030	3720	1940	1350	1320	1410
30	2070	2690	7570	8200	---	10100	6510	3620	1930	1340	1320	1350
31	2060	---	6870	7200	---	9620	---	3500	---	1330	1320	---
TOTAL	63470	76290	268030	185040	298520	226460	192680	129540	76600	47900	41640	39340
MEAN	2047	2543	8646	5969	10660	7305	6423	4179	2553	1545	1343	1311
MAX	2470	4400	25900	12400	25100	10100	9550	6470	3410	1900	1390	1710
MIN	1900	2100	2710	4050	4870	5970	5180	3500	1930	1330	1320	1230
AC-FT	125900	151300	531600	367000	592100	449200	382200	256900	151900	95010	82590	78030
CAL YR 1980	TOTAL	2965770	MEAN	8103	MAX	104000	MIN	1820	AC-FT	5883000		
WTR YR 1981	TOTAL	1645510	MEAN	4508	MAX	25900	MIN	1230	AC-FT	3264000		

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 Somesbar."

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, 26.0°C Aug. 9-11; minimum recorded, 3.5°C Dec. 14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM FLOW, INST-CFS	SPECIFIC COND MICROMHO	PH FIELD (UNITS)	TEMP WATER (DEG C)	TURB- IDITY (NTU)	OXYGEN DISS (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM CA,DISS (MG/L)	MGNISIUM MG,DISS (MG/L)	SODIUM NA,DISS (MG/L)
80/10/13	11 00	2200	206	8.0		2.0	10.6				
80/11/10	12 45	2590	179	8.3		2.0	12.2				
80/12/09	11 40	7390	174	7.4	5.0	3.0	12.8				
81/01/04	13 35	5410	162	7.9	8.0	2.0	12.5				
81/02/02	11 50	6110	180	8.0	8.0	2.0	13.5				
81/03/02	13 20	7670	169	7.6	9.0	3.0	12.1				
81/04/06	13 30	7220	174	7.9	12.0	3.0	11.4				
81/05/11	12 00	3820	161	8.2	16.5	1.0	10.4				
81/06/22	13 05	2010	182	8.0	22.0	1.0	9.3				
81/07/13	12 30		205	8.0	22.0	1.0	9.6				
81/08/11	11 50		203	8.1	27.0	1.0	9.1				
81/09/15	12 20	1250	206	8.1	23.5	0.0	9.4	73	16	8	14

DATE	TIME	PTSSSIUM K,DISS (MG/L)	ALKA- LINITY (MG/L)	CHLORIDE TOTAL (MG/L)	BORON B,DISS (UG/L)
80/10/13	11 00				
80/11/10	12 45				
80/12/09	11 40				
81/01/04	13 35				
81/02/02	11 50				
81/03/02	13 20				
81/04/06	13 30				
81/05/11	12 00				
81/06/22	13 05				
81/07/13	12 30				
81/08/11	11 50				
81/09/15	12 20	2.5	84	6	100

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	17.5	11.5	11.0	8.5	7.5	7.5	7.0	6.0	5.5	8.0	7.0
2	19.0	17.5	12.0	11.0	8.0	7.0	7.5	7.0	6.0	5.5	8.0	7.0
3	19.0	18.0	12.5	12.0	8.5	8.0	7.0	6.5	6.0	5.5	8.0	7.5
4	19.0	17.5	13.0	12.5	8.5	8.0	7.0	6.5	5.5	5.0	8.0	7.5
5	18.5	17.5	13.0	12.5	8.0	7.5	7.0	6.0	6.0	5.0	8.0	7.0
6	18.5	17.5	13.0	12.5	7.5	7.5	6.5	6.0	6.5	6.0	7.5	6.5
7	18.5	17.5	13.0	12.5	7.5	6.0	6.0	6.0	6.0	5.5	8.0	7.0
8	18.5	17.0	12.5	12.5	6.0	5.0	6.0	5.5	5.5	5.0	9.0	7.5
9	18.5	17.0	12.5	11.5	5.0	4.5	6.5	6.0	6.5	5.5	9.0	8.0
10	18.0	17.0	11.5	11.0	4.5	4.5	6.5	6.0	6.0	6.0	9.5	8.5
11	17.5	15.5	11.0	10.0	5.0	4.5	6.5	5.5	7.0	6.0	10.0	8.5
12	15.5	15.5	10.0	9.5	5.0	4.5	6.0	5.5	8.0	7.0	10.0	9.0
13	15.5	14.5	9.5	8.5	4.5	4.0	5.5	5.5	8.0	7.5	9.5	9.0
14	14.5	13.5	8.5	7.5	4.0	3.5	5.5	5.5	8.0	7.5	10.0	9.0
15	14.5	13.5	8.0	7.5	4.5	4.0	5.5	5.0	8.0	7.5	9.5	8.5
16	14.0	12.5	8.0	7.5	5.0	4.5	6.0	5.5	8.5	8.0	9.5	8.0
17	13.5	12.5	8.0	7.5	5.5	5.0	7.0	5.5	8.0	7.5	9.0	8.0
18	13.5	12.5	8.5	8.0	6.0	5.5	8.0	7.0	8.0	7.5	8.5	8.0
19	13.5	12.5	8.5	8.0	6.0	6.0	8.0	7.5	8.5	8.0	9.0	8.0
20	13.5	13.0	8.5	8.5	6.5	6.0	8.0	7.5	8.0	7.0	9.5	8.5
21	13.5	13.0	8.5	8.5	7.5	6.5	8.0	7.5	7.0	6.5	10.0	8.5
22	13.5	12.5	9.0	8.5	8.0	7.5	8.5	8.0	7.5	7.0	10.0	9.0
23	13.0	12.0	10.0	9.0	8.0	7.5	8.5	8.0	8.0	7.5	10.0	9.0
24	13.0	12.0	10.0	9.0	7.5	6.5	8.0	7.0	8.0	7.5	9.5	9.0
25	12.5	12.0	9.0	8.5	8.5	6.5	7.0	6.5	7.5	7.0	9.5	9.0
26	12.5	12.0	8.5	8.0	8.5	8.5	7.0	6.5	7.0	6.5	9.0	8.0
27	13.0	12.0	8.0	8.0	8.5	8.5	7.0	6.0	7.5	7.0	9.5	8.0
28	13.0	12.0	8.0	8.0	8.5	8.0	6.5	6.5	7.0	7.0	9.5	8.5
29	12.0	11.5	8.5	8.0	8.0	7.5	6.5	6.5	---	---	9.5	9.0
30	12.0	11.0	8.5	8.5	8.0	7.5	6.5	6.0	---	---	9.0	9.0
31	11.5	11.0	---	---	7.5	7.5	6.0	6.0	---	---	9.0	8.5
MONTH	19.0	11.0	13.0	7.5	8.5	3.5	8.5	5.0	8.5	5.0	10.0	6.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.5	16.5	15.5	20.0	18.5	23.0	22.0	23.5	21.5	22.0	20.0
2	9.5	8.5	15.5	14.5	19.5	18.5	24.0	22.5	23.0	21.0	21.5	20.5
3	10.0	9.0	14.5	13.5	20.0							

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 mi² (386 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 2,536.93 ft (773.256 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, water-stage recorder at site 0.2 mi (0.3 km) downstream at datum 3.57 ft (1.088 m) lower.

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

AVERAGE DISCHARGE.--24 years, 410 ft³/s (11.61 m³/s), 297,000 acre-ft/yr (366 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,500 ft³/s (750 m³/s) Jan. 16, 1974, gage height, 19.2 ft (5.852 m) from floodmarks, present site and datum, on basis of slope-area measurement at peak flow; minimum daily, 16 ft³/s (0.45 m³/s) Sept. 11-14, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 10.5 ft (3.20 m), previous site and datum, from floodmarks, discharge, 11,400 ft³/s (323 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (53.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Jan. 22	1415	*5,590	158	9.70	2.957
Feb. 14	0015	3,160	89.5	8.24	2.512

Minimum daily, 25 ft³/s (0.71 m³/s) Aug. 30 to Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	41	46	136	275	386	425	1220	275	66	34	25
2	35	43	143	120	261	386	393	928	264	64	34	25
3	34	44	522	121	256	400	374	721	238	60	34	25
4	33	43	407	126	254	495	368	616	222	60	34	25
5	33	41	172	113	255	446	420	538	211	60	34	25
6	33	40	118	106	245	413	474	474	195	64	33	25
7	32	61	93	100	228	399	443	441	181	65	32	25
8	32	69	80	94	228	377	429	423	176	60	30	25
9	32	51	79	91	228	376	422	432	167	57	30	25
10	32	47	74	88	235	395	427	465	151	55	30	25
11	39	46	71	85	261	416	419	460	140	54	29	25
12	78	44	70	81	271	432	409	441	138	54	29	25
13	64	42	70	79	876	479	424	437	131	53	29	25
14	65	42	68	77	1900	458	491	460	124	50	29	25
15	56	43	81	76	914	475	596	428	116	48	29	25
16	50	42	144	101	1050	447	641	376	110	47	29	25
17	47	42	136	214	1200	422	700	364	107	47	29	25
18	46	42	126	264	873	416	758	503	103	46	27	25
19	44	42	120	294	1110	416	1030	470	102	45	27	25
20	44	42	110	710	941	417	860	419	97	42	27	25
21	43	43	204	1420	719	426	936	376	92	41	27	25
22	41	53	231	3280	621	489	1120	355	90	41	28	25
23	40	52	160	2140	576	497	1350	364	87	40	27	25
24	40	51	130	1010	560	482	1290	428	83	38	26	25
25	43	46	195	664	492	730	1020	441	78	38	27	28
26	44	45	238	525	469	768	835	470	75	37	27	30
27	44	44	209	481	439	618	689	414	74	38	27	93
28	43	44	195	474	411	552	832	372	72	37	27	68
29	41	45	165	402	---	557	1140	355	71	36	26	43
30	40	50	148	339	---	501	1360	335	68	34	25	38
31	40	---	143	299	---	458	---	300	---	34	25	---
TOTAL	1323	1380	4748	14110	16148	14529	21075	14826	4038	1511	901	900
MEAN	42.7	46.0	153	455	577	469	703	478	135	48.7	29.1	30.0
MAX	78	69	522	3280	1900	768	1360	1220	275	66	34	93
MIN	32	40	46	76	228	376	368	300	68	34	25	25
AC-FT	2620	2740	9420	27990	32030	28820	41800	29410	8010	3000	1790	1790
CAL YR 1980	TOTAL	135905	MEAN 371	MAX 5010	MIN 32	AC-FT 269600						
WTR YR 1981	TOTAL	95489	MEAN 262	MAX 3280	MIN 25	AC-FT 189400						

KLAMATH RIVER BASIN

11525400 CLAIR ENGLE LAKE NEAR LEWISTON, CA

LOCATION.--Lat 40°48'05", long 122°45'44", in NW¼SW¼ sec.15, T.34 N., R.8 W., Trinity County, Hydrologic Unit 18010211, Trinity National Forest, on side of intake structure of Trinity Dam on Trinity River, 9 mi (14 km) north of Lewiston.

DRAINAGE AREA.--692 mi² (1,792 km²).

PERIOD OF RECORD.--November 1960 to current year. Prior to October 1963 published as Trinity Lake near Lewiston.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to Jan. 4, 1962, nonrecording gage at same site and datum.

REMARKS.--The lake is formed by an earthfill dam completed in November 1960. Storage began Nov. 23, 1960. Usable capacity, 2,437,700 acre-ft (3.01 km³) between elevations 1,995.5 ft (608.23 m), elevation of invert of river outlets and 2,370.0 ft (722.38 m), gross pool elevation. Dead storage, 10,000 acre-ft (12.3 hm³). Records, including extremes, represent total contents at 2400 hours.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,588,000 acre-ft (3.19 km³) Jan. 19, 1974, elevation, 2,378.32 ft (724.912 m); minimum since lake first filled, 222,400 acre-ft (274 hm³) Nov. 9, 1977, elevation, 2,120.22 ft (646.243 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,298,600 acre-ft (2.83 km³) May 20, elevation, 2,360.74 ft (719.554 m); minimum, 1,702,300 acre-ft (2.10 km³) Sept. 30, elevation, 2,319.30 ft (706.923 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 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1878400	1847500	1793100	1822600	1932200	2050000	2139800	2253500	2290800	2187700	2050900	1857700
2	1878000	1844700	1796200	1823300	1934300	2051300	2142300	2257900	2288800	2183700	2044100	1851600
3	1877500	1842000	1801900	1824200	1936000	2052000	2145100	2261000	2286900	2180000	2037400	1845600
4	1877200	1838900	1806200	1824800	1937700	2055000	2147800	2263600	2285000	2175600	2031300	1839300
5	1876500	1835700	1807400	1824700	1939500	2057300	2150300	2266500	2282600	2170800	2025900	1833500
6	1875800	1832300	1808100	1824100	1941200	2058700	2153200	2269500	2280200	2165200	2020400	1827800
7	1874800	1830100	1808600	1823400	1942800	2060300	2155900	2272100	2275600	2160000	2014800	1821800
8	1874000	1827400	1808400	1822900	1944100	2061800	2158700	2275100	2274200	2155300	2009300	1815800
9	1873300	1824100	1808500	1822900	1944700	2062400	2161100	2278400	2271400	2150600	2003500	1809600
10	1872200	1820800	1808100	1823200	1945400	2063700	2162600	2280800	2267800	2145800	1997400	1803600
11	1871600	1817600	1807900	1823300	1946900	2065200	2163800	2282200	2263800	2141400	1991500	1797700
12	1871100	1814200	1807700	1823400	1948800	2066400	2165300	2285200	2259600	2137200	1985200	1791700
13	1870700	1810900	1807700	1823400	1963200	2067200	2167000	2286100	2255700	2133000	1978600	1785900
14	1870200	1807800	1807700	1823700	1983800	2068000	2169100	2287200	2252300	2129800	1971700	1779900
15	1869700	1804700	1807800	1823600	1993200	2072100	2171500	2287900	2248900	2126400	1965100	1774100
16	1869400	1801000	1806900	1824700	2003600	2074500	2174300	2289300	2245200	2122800	1958800	1768200
17	1869000	1797900	1806300	1827200	2013700	2076400	2177200	2292400	2241800	2118900	1952800	1762900
18	1868400	1794800	1805900	1829300	2020800	2078200	2180700	2295200	2238400	2114800	1946400	1757200
19	1868000	1794300	1805600	1831900	2027400	2080400	2186000	2296900	2235500	2111000	1939500	1755400
20	1867800	1793900	1805100	1836300	2032100	2082600	2189900	2298600	2231900	2106500	1932700	1753400
21	1866000	1794300	1806600	1845300	2034400	2086200	2195600	2297500	2228200	2102300	1926400	1751600
22	1863500	1794200	1807500	1869000	2036200	2090800	2200600	2297100	2223900	2098400	1920600	1749800
23	1861300	1793900	1807900	1886300	2037500	2095000	2208100	2296800	2220600	2094200	1913900	1748100
24	1858900	1793600	1809000	1894200	2039700	2099500	2214700	2296800	2216600	2089600	1907200	1741600
25	1857000	1793200	1813100	1899300	2040600	2107200	2219800	2297500	2212400	2085500	1901000	1735700
26	1854400	1792900	1815400	1904400	2042300	2114200	2223500	2297900	2208400	2081600	1894900	1728900
27	1852400	1792700	1817400	1910800	2043500	2119600	2226800	2297400	2204500	2077600	1889000	1723200
28	1851900	1792500	1818900	1919200	2046900	2124900	2231600	2296800	2200300	2073000	1882900	1716500
29	1851600	1792300	1819900	1923700	---	2129100	2238600	2295800	2196500	2067800	1876200	1709300
30	1850900	1792100	1821000	1927200	---	2133300	2247400	2294100	2191800	2063100	1870000	1702300
31	1850700	---	1821900	1929900	---	2136500	---	2292900	---	2057600	1864400	---
MAX	1878400	1847500	1821900	1929900	2046900	2136500	2247400	2298600	2290800	2187700	2050900	1857700
MIN	1850700	1792100	1793100	1822600	1932200	2050000	2139800	2253500	2191800	2057600	1864400	1702300
†	2330.37	2326.07	2328.27	2336.05	2344.15	2350.17	2352.44	2360.57	2353.82	2344.88	2331.37	2319.30
††	-28000	-58600	+29800	+108000	+117000	+89600	+110900	+45500	-101100	-134200	-193200	-162100
††	2820	790	270	430	930	2000	4390	6350	8030	8780	8400	5210

CAL YR 1980 † +110000

WTR YR 1981 † -176400

† Elevation, in feet NGVD, at end of month.

† Change in contents, in acre-feet.

†† Evaporation, in acre-feet.

11525430 JUDGE FRANCIS CARR POWERPLANT NEAR FRENCH GULCH, CA

LOCATION.--Lat 40°38'49", long 122°37'34", Shasta County, Hydrologic Unit 18010212, at powerplant 1.6 mi (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 Bureau of Reclamation, rounded to Geological Survey standards.

AVERAGE DISCHARGE.--18 years, 1,542 ft³/s (43.67 m³/s), 1,117,000 acre-ft/yr (1.38 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,910 ft³/s (111 m³/s) Feb. 11, 1970; no flow many days in many years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	1380	29	0	0	0	0	517	1650	1870	2580	2580
2	4.0	1380	1230	0	25	878	168	511	1650	1870	2560	2590
3	4.0	1370	1580	0	19	1300	162	555	1560	1850	2570	2580
4	0	1390	139	0	25	1210	0	457	1990	1890	2580	2590
5	0	1380	0	25	29	732	0	0	1570	1860	2710	2570
6	63	1390	0	77	17	1060	8.0	69	1580	1900	2550	2570
7	73	1390	29	17	0	928	0	0	1590	1870	2620	2570
8	35	1390	29	29	0	706	0	2.0	1710	1830	2560	2580
9	29	1390	29	0	25	918	0	0	1600	1860	2550	2590
10	0	1380	29	0	0	917	604	486	1870	1860	2550	2570
11	0	1390	17	0	0	875	583	306	1870	1860	2550	2580
12	0	1390	17	2.0	64	1000	558	0	1870	1900	2550	2580
13	0	1390	0	0	0	1160	507	822	1820	1980	2670	2580
14	0	1390	0	0	0	1160	514	763	1810	1730	2560	2650
15	0	1390	6.0	0	0	274	504	768	1810	1700	2560	2560
16	47	1390	0	0	0	271	558	766	1880	1740	2660	2540
17	49	1420	0	0	4.0	290	534	0	1880	1740	2550	2150
18	0	1380	97	0	0	300	593	841	1930	1730	2560	2150
19	0	0	0	0	712	365	552	847	1860	1740	2650	243
20	0	0	0	25	1440	461	587	326	1800	1670	2560	251
21	807	0	0	0	1370	437	609	1470	1930	1640	2560	247
22	889	0	34	17	1410	159	536	1560	1870	1640	2560	254
23	885	0	0	18	1490	4.0	568	1480	2060	1700	2590	268
24	887	0	0	0	1340	35	652	1490	2000	1620	2580	2570
25	944	0	0	0	1420	31	574	1520	1910	1680	2560	2580
26	837	0	0	50	1390	46	529	1680	2000	1650	2560	3150
27	876	0	0	76	1400	0	545	1660	2050	1690	2660	3130
28	0	0	0	13	0	0	627	1550	1860	1710	2580	2980
29	0	0	19	0	---	0	408	1360	1810	1700	2690	3240
30	0	0	10	0	---	0	525	1660	1860	1760	2590	3240
31	9.0	---	0	0	---	4.0	---	1590	---	1990	2570	---
TOTAL	6624.0	24980	3294.0	349.0	12180.0	15521.0	12005.0	25056.0	54650	55230	80200	67733
MEAN	214	833	106	11.3	435	501	400	808	1822	1782	2587	2258
MAX	944	1420	1580	77	1490	1300	652	1680	2060	1990	2710	3240
MIN	0	0	0	0	0	0	0	0	1560	1620	2550	243
AC-FT	13140	49550	6530	692	24160	30790	23810	49700	108400	109500	159100	134300
CAL YR 1980	TOTAL	433740.00	MEAN	1185	MAX	3600	MIN	0	AC-FT	860300		
WTR YR 1981	TOTAL	357822.00	MEAN	980	MAX	3240	MIN	0	AC-FT	709700		

KLAMATH RIVER BASIN

11525500 TRINITY RIVER AT LEWISTON, CA

LOCATION.--Lat 40°43'10", long 122°48'09", in SW¼NW¼ sec.17, T.33 N., R.8 W., Trinity County, Hydrologic Unit 18010211, on right bank 400 ft (122 m) upstream from Deadwood Creek, and 0.8 mi (1.3 km) northeast of Lewiston.

DRAINAGE AREA.--719 mi² (1,862 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1911 to current year.

REVISED RECORDS.--WSP 331: 1911-12. WSP 1181: 1949. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,815.95 ft (553.502 m), National Geodetic Vertical Datum of 1929. See WSP 1929 for history of changes prior to July 7, 1964.

REMARKS.--Records excellent. Flow regulated by Clair Engle Lake (station 11525400) beginning in November 1960. Diversion to Judge Francis Carr powerplant (station 11525430) began in April 1963. Small diversions above head of Trinity Lake for irrigation, power, and placer mining.

AVERAGE DISCHARGE (adjusted for change in contents, evaporation, and diversion).--70 years, 1,703 ft³/s (48.23 m³/s), 1,234,000 acre-ft/yr (1.52 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,600 ft³/s (2,030 m³/s) Dec. 22, 1955, gage height, 27.3 ft (8.32 m) from floodmarks, site and datum then in use; minimum, 23 ft³/s (0.65 m³/s) July 30, 1924. Maximum discharge since construction of Lewiston Dam in 1960, 14,400 ft³/s (408 m³/s) Jan. 18, 1974, gage height, 10.41 ft (3.173 m); minimum daily, 100 ft³/s (2.83 m³/s) Apr. 14, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1861 reached a stage of 21.6 ft (6.58 m) from floodmarks, at site 1.1 mi (1.8 km) downstream at different datum, discharge, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 961 ft³/s (27.2 m³/s) Dec. 15, gage height, 4.72 ft (1.439 m); minimum daily, 291 ft³/s (8.24 m³/s) June 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	317	319	307	292	321	332	330	455	451	558	415
2	314	317	322	306	297	322	330	331	451	451	558	415
3	314	316	292	307	306	322	330	330	452	452	443	416
4	314	316	316	307	307	320	331	326	452	449	445	416
5	315	315	314	670	308	321	331	325	449	450	443	412
6	315	316	313	901	315	334	331	326	453	449	441	411
7	316	319	312	897	324	372	331	327	453	449	441	409
8	317	319	312	726	324	390	327	331	450	448	441	409
9	318	318	310	515	648	350	328	471	449	450	442	409
10	319	318	310	358	854	321	328	400	447	450	451	409
11	320	317	311	304	709	316	328	324	452	430	459	403
12	319	318	313	304	534	316	329	321	452	308	442	388
13	320	319	312	304	407	316	328	321	455	307	441	388
14	320	319	313	304	332	317	328	314	454	307	445	387
15	319	320	690	304	319	317	328	317	457	306	446	388
16	319	320	944	305	305	608	330	320	457	307	446	371
17	318	320	944	305	323	799	330	315	455	307	444	326
18	318	320	936	304	323	793	321	382	453	348	443	327
19	319	319	936	306	323	659	316	415	451	463	442	325
20	318	320	920	310	325	504	330	412	450	452	442	337
21	317	321	928	305	321	371	330	409	453	453	443	447
22	318	321	766	308	324	324	330	414	459	455	444	415
23	320	320	545	306	324	323	330	408	291	453	445	419
24	319	320	374	305	323	323	327	404	511	453	444	418
25	317	320	308	304	321	325	327	403	458	453	443	416
26	317	320	307	308	313	327	327	404	459	453	442	414
27	317	319	307	311	321	328	327	402	454	559	442	415
28	317	319	307	309	322	327	327	440	452	557	442	414
29	317	319	307	295	---	327	327	458	451	559	441	412
30	316	318	307	293	---	331	329	459	451	558	441	403
31	316	---	307	292	---	332	---	459	---	557	451	---
TOTAL	9836	9560	14502	11680	10444	11956	9848	11598	13486	13544	13991	11934
MEAN	317	319	468	377	373	386	328	374	450	437	451	398
MAX	320	321	944	901	854	799	332	471	511	559	558	447
MIN	313	315	292	292	292	316	316	314	291	306	441	325
AC-FT	19510	18960	28760	23170	20720	23710	19530	23000	26750	26860	27750	23670
MEAN ‡	123	180	1063	2151	2932	2376	2665	2025	707	178	33.3	18.2
AC-FT ‡	7540	10690	65370	132300	162800	146100	158600	124500	42060	10930	2050	1080
CAL YR 1980 TOTAL	168422											
MEAN 460												
MAX 2580												
MIN 280												
AC-FT 334100												
WTR YR 1981 TOTAL	142379											
MEAN 390												
MAX 944												
MIN 291												
AC-FT 282400												
MEAN ‡ 1193												
AC-FT ‡ 1,352,000												
AC-FT ‡ 864,000												

‡ Adjusted for change in contents and evaporation from Clair Engle Lake and for diversions to Judge Francis Carr Power Plant.

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, 13.5°C May 11, 12; minimum recorded, 6.0°C Dec. 11-18.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM FLOW, INST-CFS	SPECIFIC COND MICROMHO	PH FIELD (UNITS)	TEMP WATER (DEG C)	TURB- IDITY (NTU)	OXYGEN DISS (MG/L)	COD LOWLEVEL (MG/L)	BOD 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM CA, DISS (MG/L)
80/10/13	08 15	320		7.2		0.0	10.7			42	5
80/12/09	08 30	310	90	7.1	6.5	2.0	10.9				
81/02/02	08 20	292	94	7.1	7.0	2.0	11.8				
81/05/11	08 00	313	92	7.8	13.0	1.0	10.6	6.0	1.0		
81/06/22	10 00	456	90	7.3	12.0	1.0	10.6				
81/07/13	09 10	307	91	7.3	11.5	1.0	10.6				
81/09/15	09 05	390	92	7.3	11.0	0.0	10.4			42	5

DATE	TIME	MAGNESIUM MG, DISS (MG/L)	SODIUM NA, DISS (MG/L)	POTASSIUM K, DISS (MG/L)	ALKAL- INITY (MG/L)	CHLORIDE TOTAL (MG/L)	RESIDUE TOT NFLT (MG/L)	NO2+NO3 N-DISS (MG/L)	AMMONIA N DISS (MG/L)	AMMONIA+ ORG TOT N(MG/L)
80/10/13	08 15		7	2	0.4	39	1			
80/12/09	08 30							0.02	0.03	0.30
81/02/02	08 20							0.02	0.02	0.20
81/05/11	08 00						3	0.03	0.01	0.10
81/06/22	10 00							0.02	0.06	0.20
81/07/13	09 10									
81/09/15	09 05		7	4	0.9	44	2			

DATE	TIME	PHOS-TOT AS P (MG/L)	PHOS-DIS URTHO P (MG/L)
80/10/13	08 15		
80/12/09	08 30	0.01	0.00
81/02/02	08 20	0.05	0.00
81/05/11	08 00	0.03	0.03
81/06/22	10 00	0.01	0.01
81/07/13	09 10		
81/09/15	09 05		

DATE	TIME	ARSENIC AS, DISS (UG/L)	BARIUM BA, DISS (UG/L)	BORON B, DISS (UG/L)	CADMIUM CD, DISS (UG/L)	CHROMIUM CR, DISS (UG/L)	COPPER CU, DISS (UG/L)	IRON FE, DISS (UG/L)	LEAD PB, DISS (UG/L)	MANGNESE MN, DISS (UG/L)	MERCURY HG, TOTAL (UG/L)
80/10/13	08 15			0							
81/05/11	08 00	0	0		0	0	0	20	0	10	0.0
81/09/15	09 05			0							

DATE	TIME	SELENIUM SE, DISS (UG/L)
80/10/13	08 15	
81/05/11	08 00	10
81/09/15	09 05	

10/17
736
529

KLAMATH RIVER BASIN

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.0	12.5	11.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	9.5
2	10.5	9.0	12.0	10.5	11.0	10.0	11.5	10.0	10.5	9.5	11.0	9.5
3	11.0	9.0	12.5	10.5	11.0	10.0	11.5	10.0	10.5	9.5	10.5	9.5
4	11.0	9.5	12.5	10.5	11.0	10.0	11.0	10.0	10.5	9.5	10.5	9.5
5	11.5	9.5	12.5	10.5	11.5	10.0	10.5	10.0	10.5	9.5	10.5	9.5
6	11.5	9.5	12.5	10.5	11.0	10.0	10.5	9.5	10.5	9.5	10.5	9.5
7	11.5	10.0	12.5	10.5	11.0	10.0	10.5	9.5	10.5	9.0	10.5	9.5
8	12.0	10.0	12.5	11.0	10.5	10.0	11.0	9.5	10.5	9.5	10.5	9.5
9	12.0	10.0	12.5	11.0	11.0	10.0	11.0	9.5	10.5	9.5	10.5	8.5
10	12.0	10.5	13.0	11.0	10.5	9.5	11.0	9.5	11.0	9.5	11.0	9.5
11	12.0	10.5	13.5	11.5	11.0	9.5	11.0	9.5	11.0	9.5	11.0	8.5
12	12.0	10.5	13.5	11.5	10.5	9.5	11.5	10.0	11.0	9.5	10.5	9.0
13	12.0	10.0	12.5	11.0	10.5	9.5	11.5	10.0	11.0	9.5	10.5	9.0
14	12.0	10.0	13.0	11.5	11.0	9.5	11.5	10.0	11.0	9.5	10.5	9.0
15	11.5	10.0	12.5	11.0	11.0	9.5	12.0	10.0	11.0	9.5	10.5	9.5
16	11.5	10.0	12.5	11.0	10.5	9.5	12.0	10.0	10.5	9.5	10.5	9.0
17	11.5	10.0	11.5	11.0	11.0	9.5	12.0	10.0	10.5	9.0	10.5	9.5
18	11.5	10.0	11.5	11.0	11.0	10.0	12.0	10.0	10.5	9.5	11.5	9.5
19	10.5	10.0	12.0	11.0	11.0	10.0	11.5	10.5	10.5	9.5	10.5	9.5
20	11.5	10.0	11.5	10.5	11.0	10.0	11.5	10.5	11.0	9.5	11.0	9.5
21	11.5	10.0	11.5	10.5	11.5	10.0	11.5	10.5	10.5	9.5	10.5	9.5
22	12.0	10.0	11.5	10.5	11.5	10.0	11.5	10.0	10.5	9.0	11.5	9.5
23	12.5	10.0	11.5	10.0	13.0	10.0	11.5	10.0	10.5	9.0	11.0	9.5
24	11.5	10.5	11.0	10.0	11.5	10.0	11.5	10.0	10.5	9.0	10.0	10.0
25	11.0	10.5	11.5	10.0	11.5	10.0	11.5	10.0	10.5	9.5	10.0	9.0
26	11.5	10.0	11.5	10.0	11.5	10.0	11.5	10.0	10.5	9.5	9.0	8.5
27	12.0	10.0	11.5	10.0	11.0	10.0	11.0	10.0	10.5	9.0	9.0	8.5
28	12.0	10.5	11.0	10.0	11.5	10.0	11.0	10.0	10.5	9.0	9.5	8.5
29	12.0	10.5	11.0	10.0	11.5	10.0	11.5	10.0	10.5	9.0	9.5	8.5
30	12.5	11.0	11.0	10.0	11.5	10.0	11.5	10.0	10.5	9.0	9.5	8.5
31	---	---	11.5	10.0	---	---	11.5	10.0	10.5	9.0	---	---
MONTH	12.5	9.0	13.5	10.0	13.0	9.5	12.0	9.5	11.0	9.0	11.5	8.5

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA.

LOCATION.--Lat 40°40'35", long 122°49'46", in SW¼NE¼ sec.36, T.33 N., R.9 W., Trinity County, Hydrologic Unit 18010211, on right bank 0.1 mi (0.2 km) upstream from Phillips Gulch, and 2.5 mi (4.0 km) southwest of Lewiston.

DRAINAGE AREA.--30.8 mi² (79.8 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 2,049.73 ft (624.758 m) National Geodetic Vertical Datum of 1929 (California State Highway Department bench mark).

REMARKS.--Records excellent. No regulation; small diversions above station for domestic use.

AVERAGE DISCHARGE.--5 years (water years 1977-81), 39.5 ft³/s (1.119 m³/s), 28.620 acre-ft/yr (35.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,080 ft³/s (58.9 m³/s) Jan. 14, 1978; gage height, 8.38 ft (2.554 m); maximum gage height, 8.45 ft (2.576 m) Jan. 16, 1978; minimum daily discharge, 4.3 ft (0.12 m³/s) many days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 3	2045	215 6.09	6.06 1.847	Jan. 28	0745	*610 17.3	7.01 2.137
Jan. 22	1900	437 12.4	6.65 2.027	Feb. 13	2330	378 10.7	6.52 1.987

Minimum daily, 7.3 ft³/s (0.21 m³/s) several days in August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	11	15	18	77	69	75	49	26	14	8.6	8.0
2	8.7	12	42	17	70	66	72	48	25	14	8.7	8.0
3	8.5	11	116	19	64	65	68	47	25	14	8.7	8.0
4	8.4	11	81	18	59	96	66	45	24	14	8.7	8.0
5	8.5	11	42	17	56	83	65	44	24	16	8.8	8.0
6	8.5	11	33	17	53	77	64	43	23	17	8.3	7.6
7	8.5	13	29	17	50	73	62	42	23	16	7.6	7.6
8	8.6	12	26	17	49	71	60	40	23	14	7.6	7.6
9	8.6	12	25	17	48	68	59	40	23	14	7.6	7.6
10	8.7	12	24	17	46	66	58	38	23	14	7.3	7.6
11	9.5	12	23	17	52	65	57	37	23	14	7.3	7.6
12	15	12	22	16	52	64	55	36	23	13	7.6	7.6
13	13	12	21	16	122	64	54	36	23	13	7.6	7.6
14	13	12	21	16	193	62	54	35	22	13	7.6	7.6
15	11	12	21	16	119	73	53	35	22	12	7.6	7.3
16	11	12	20	20	111	71	53	34	21	11	7.6	7.6
17	11	12	20	30	104	67	53	37	20	11	7.3	7.3
18	11	12	18	31	93	65	53	42	20	11	7.3	7.6
19	11	12	18	31	91	66	67	37	19	11	7.6	7.6
20	11	12	18	32	85	70	59	35	18	11	8.2	8.0
21	10	13	23	37	80	85	56	34	18	10	8.2	8.1
22	10	15	21	174	76	91	56	33	17	10	8.0	8.2
23	10	13	20	207	72	83	56	32	17	9.8	7.6	8.5
24	10	12	20	121	74	79	57	31	17	9.3	7.6	9.9
25	11	12	22	91	71	102	56	31	16	9.3	8.3	12
26	11	12	20	80	74	99	55	31	16	9.1	8.2	11
27	11	12	21	85	74	90	52	30	16	8.9	8.0	15
28	11	12	20	326	70	85	51	28	15	8.6	7.6	13
29	11	15	19	143	---	83	51	27	15	8.6	7.3	11
30	11	16	19	107	---	79	50	27	14	8.6	7.6	10
31	11	---	18	89	---	77	---	26	---	8.6	8.2	---
TOTAL	319.4	368	858	1859	2185	2354	1747	1130	611	367.8	244.2	260.5
MEAN	10.3	12.3	27.7	60.0	78.0	75.9	58.2	36.5	20.4	11.9	7.88	8.68
MAX	15	16	116	326	193	102	75	49	26	17	8.8	15
MIN	8.4	11	15	16	46	62	50	26	14	8.6	7.3	7.3
AC-FT	634	730	1700	3690	4330	4670	3470	2240	1210	730	484	517
CAL YR 1980	TOTAL	16744.9	MEAN	45.8	MAX	519	MIN	8.4	AC-FT	33210		
WTR YR 1981	TOTAL	12303.9	MEAN	33.7	MAX	326	MIN	7.3	AC-FT	24400		

KLAMATH RIVER BASIN

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, 1,190 mg/L Jan. 22; minimum daily mean, 0 mg/L on many days during October, July, and August.

SEDIMENT LOADS: Maximum daily, 986 tons (894 metric tons) Jan. 28; minimum daily, 0 ton (0 metric ton) on many days during October, July, and August.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

[illegible]

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	5	.12	11	3	.09	15	3	.12
2	8.7	5	.12	12	4	.13	42	65	8.1
3	8.5	4	.09	11	4	.12	116	753	349
4	8.4	3	.07	11	3	.09	81	239	74
5	8.5	2	.05	11	2	.06	42	24	2.7
6	8.5	2	.05	11	1	.03	33	15	1.3
7	8.5	3	.07	13	1	.04	29	8	.63
8	8.6	3	.07	12	2	.06	26	4	.28
9	8.6	4	.09	12	3	.10	25	4	.27
10	8.7	4	.09	12	3	.10	24	4	.26
11	9.5	5	.13	12	4	.13	23	4	.25
12	15	5	.20	12	4	.13	22	4	.24
13	13	2	.07	12	4	.13	21	5	.28
14	13	1	.04	12	4	.13	21	6	.34
15	11	0	0	12	4	.13	21	8	.45
16	11	0	0	12	5	.16	20	8	.43
17	11	0	0	12	5	.16	20	8	.43
18	11	0	0	12	5	.16	18	7	.34
19	11	0	0	12	3	.10	18	7	.34
20	11	0	0	12	2	.06	18	7	.34
21	10	0	0	13	2	.07	23	9	.56
22	10	0	0	15	2	.08	21	9	.51
23	10	0	0	13	2	.07	20	5	.27
24	10	0	0	12	3	.10	20	4	.22
25	11	0	0	12	3	.10	22	4	.24
26	11	0	0	12	3	.10	20	3	.16
27	11	0	0	12	4	.13	21	25	1.4
28	11	0	0	12	4	.13	20	22	1.2
29	11	2	.06	15	4	.16	19	11	.56
30	11	2	.06	16	5	.22	19	4	.21
31	11	2	.06	---	---	---	18	3	.15
TOTAL	319.4	---	1.44	368	---	3.27	858	---	445.58
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	18	3	.15	77	44	9.1	69	13	2.4
2	17	5	.23	70	22	4.2	66	12	2.1
3	19	10	.51	64	15	2.6	65	12	2.1
4	18	10	.49	59	14	2.2	96	48	13
5	17	8	.37	56	11	1.7	83	24	5.4
6	17	6	.28	53	8	1.1	77	14	2.9
7	17	3	.14	50	8	1.1	73	12	2.4
8	17	1	.05	49	8	1.1	71	11	2.1
9	17	1	.05	48	8	1.0	68	10	1.8
10	17	1	.05	46	8	.99	66	10	1.8
11	17	1	.05	52	8	1.1	65	11	1.9
12	16	1	.04	52	8	1.1	64	13	2.2
13	16	1	.04	122	202	108	64	14	2.4
14	16	1	.04	193	283	174	62	13	2.2
15	16	1	.04	119	98	31	73	31	6.4
16	20	11	.67	111	78	23	71	14	2.7
17	30	23	1.9	104	62	17	67	10	1.8
18	31	9	.75	93	46	12	65	9	1.6
19	31	11	.96	91	36	8.8	66	15	2.7
20	32	12	1.0	85	29	6.7	70	16	3.0
21	37	10	1.0	80	23	5.0	85	45	10
22	174	1190	1000	76	20	4.1	91	58	14
23	207	555	362	72	18	3.5	83	21	4.7
24	121	71	23	74	17	3.4	79	14	3.0
25	91	47	12	71	15	2.9	102	94	27
26	80	36	7.8	74	15	3.0	99	74	20
27	85	383	104	74	14	2.8	90	40	9.7
28	326	1040	1110	70	13	2.5	85	24	5.5
29	143	136	53	---	---	---	83	22	4.9
30	107	117	34	---	---	---	79	19	4.1
31	89	71	17	---	---	---	77	17	3.5
TOTAL	1859	---	2731.61	2185	---	434.99	2354	---	169.3

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	75	16	3.2	49	8	1.1	26	2	.14
2	72	15	2.9	48	8	1.0	25	2	.14
3	68	15	2.8	47	8	1.0	25	2	.14
4	66	15	2.7	45	9	1.1	24	2	.13
5	65	15	2.6	44	10	1.2	24	2	.13
6	64	15	2.6	43	8	.93	23	2	.12
7	62	15	2.5	42	6	.68	23	2	.12
8	60	14	2.3	40	4	.43	23	2	.12
9	59	14	2.2	40	4	.43	23	2	.12
10	58	13	2.0	38	5	.51	23	2	.12
11	57	12	1.8	37	5	.50	23	2	.12
12	55	11	1.6	36	5	.49	23	2	.12
13	54	10	1.5	36	4	.39	23	2	.12
14	54	9	1.3	35	3	.28	22	2	.12
15	53	8	1.1	35	3	.28	22	2	.12
16	53	7	1.0	34	3	.28	21	3	.17
17	53	7	1.0	37	7	.70	20	3	.16
18	53	7	1.0	42	14	1.6	20	3	.16
19	67	40	7.4	37	7	.70	19	3	.15
20	59	26	4.1	35	5	.47	18	4	.19
21	56	17	2.6	34	3	.28	18	4	.19
22	56	13	2.0	33	3	.27	17	4	.18
23	56	12	1.8	32	3	.26	17	3	.14
24	57	12	1.8	31	4	.33	17	2	.09
25	56	13	2.0	31	4	.33	16	2	.09
26	55	13	1.9	31	5	.42	16	3	.13
27	52	12	1.7	30	5	.41	16	4	.17
28	51	11	1.5	28	4	.30	15	3	.12
29	51	9	1.2	27	3	.22	15	3	.12
30	50	9	1.2	27	2	.15	14	3	.11
31	---	---	---	26	2	.14	---	---	---
TOTAL	1747	---	65.3	1130	---	17.18	611	---	4.05
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	14	3	.11	8.6	0	0	8.0	1	.02
2	14	4	.15	8.7	0	0	8.0	1	.02
3	14	4	.15	8.7	0	0	8.0	1	.02
4	14	4	.15	8.7	0	0	8.0	1	.02
5	16	4	.17	8.8	0	0	8.0	1	.02
6	17	4	.18	8.3	1	.02	7.6	1	.02
7	16	5	.22	7.6	1	.02	7.6	1	.02
8	14	5	.19	7.6	1	.02	7.6	2	.04
9	14	4	.15	7.6	1	.02	7.6	2	.04
10	14	3	.11	7.3	1	.02	7.6	2	.04
11	14	3	.11	7.3	1	.02	7.6	2	.04
12	13	2	.07	7.6	1	.02	7.6	2	.04
13	13	2	.07	7.6	1	.02	7.6	2	.04
14	13	2	.07	7.6	1	.02	7.6	2	.04
15	12	2	.06	7.6	1	.02	7.3	1	.02
16	11	2	.06	7.6	1	.02	7.6	1	.02
17	11	1	.03	7.3	1	.02	7.3	1	.02
18	11	1	.03	7.3	1	.02	7.6	1	.02
19	11	1	.03	7.6	1	.02	7.6	1	.02
20	11	1	.03	8.2	1	.02	8.0	1	.02
21	10	1	.03	8.2	1	.02	8.1	1	.02
22	10	1	.03	8.0	1	.02	8.2	1	.02
23	9.8	1	.03	7.6	1	.02	8.5	1	.02
24	9.3	1	.03	7.6	0	0	9.9	2	.05
25	9.3	1	.03	8.3	0	0	12	2	.06
26	9.1	1	.02	8.2	1	.02	11	2	.06
27	8.9	0	0	8.0	1	.02	15	1	.04
28	8.6	0	0	7.6	2	.04	13	1	.04
29	8.6	0	0	7.3	2	.04	11	1	.03
30	8.6	0	0	7.6	2	.04	10	1	.03
31	8.6	0	0	8.2	2	.04	---	---	---
TOTAL	367.8	---	2.31	244.2	---	.56	260.5	---	.91
YEAR	12303.9		3876.50						

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1980	319.40	1.44	0	1
NOVEMBER ...	368.00	3.27	0	3
DECEMBER ...	858.00	445.58	71	517
JANUARY 1981	1859.00	2731.61	870	3600
FEBRUARY ...	2185.00	434.99	523	958
MARCH	2354.00	169.30	383	552
APRIL	1747.00	65.30	162	227
MAY	1130.00	17.18	63	80
JUNE	611.00	4.05	5	9
JULY	367.80	2.31	0	2
AUGUST	244.20	0.56	0	1
SEPTEMBER ..	260.50	0.91	0	1
TOTAL	12303.90	3876.50	2077	5951

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
JAN 22...	1115	102	9.0	933	257	9	12	16
FEB 14...	0800	198	5.5	335	179	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
JAN 22...	21	27	32	40	54	72	90	99
FEB 14...	--	--	29	39	53	69	87	100

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
JAN							
22...	1045	9.0	1	88	0	1	1
22...	1046	9.0	1	88	--	0	5
22...	1047	9.0	1	88	--	0	1
22...	1048	9.0	1	88	--	--	0
22...	1049	9.0	1	88	0	1	4
MAR							
06...	1340	6.0	1	77	0	1	4
06...	1341	6.0	1	77	--	--	--
06...	1342	6.0	1	77	0	1	1
06...	1343	6.0	1	77	--	0	1
06...	1344	6.0	1	77	--	--	0

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
JAN							
22...	3	16	46	89	100	--	--
22...	46	92	99	100	--	--	--
22...	3	10	43	80	98	100	--
22...	3	20	54	92	100	--	--
22...	9	44	83	99	100	--	--
MAR							
06...	10	19	33	46	53	59	100
06...	0	2	9	19	>25	31	100
06...	2	8	35	89	97	100	--
06...	11	51	89	98	100	--	--
06...	3	18	57	81	87	96	100

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA

LOCATION.--Lat 40°40'21", long 122°55'07", in SW¼NW¼ sec. 32, T.33 N., R.9 W., Trinity County, Hydrologic Unit 18010211, on left bank 1.8 mi (2.9 km) northeast of Douglas City and 2.3 mi (3.7 km) downstream from Limekiln Gulch.

DRAINAGE AREA.--812 mi² (2,103 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April to September 1981.

GAGE.--Water-stage recorder. Altitude of gage is 1,650 (503 m), from topographical map.

REMARKS.--Records excellent. Flow regulated by Clair Engle Lake (station 11525400) and transbasin diversion to Judge Francis Carr powerplant (station 11525430). Small diversion for irrigation above station.

EXTREMES FOR PERIOD.--Maximum discharge, 581 ft³/s (16.5 m³/s) June 24, gage height, 4.91 ft (1.497 m); minimum daily, 311 ft³/s (8.81 m³/s) June 23.

DISCHARGE, IN CUBIC FEET PER SECOND, APRIL TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	431	487	449	575	446
2							---	407	486	452	575	434
3							---	396	482	455	491	434
4							---	382	479	455	462	434
5							---	375	477	455	464	433
6							---	372	476	465	461	428
7							---	373	471	460	460	426
8							---	373	471	455	460	423
9							---	487	470	455	460	423
10							---	488	466	455	461	423
11							---	380	460	453	483	423
12							---	373	460	342	460	403
13							---	364	460	322	460	403
14							---	364	460	321	460	403
15							---	367	457	320	460	404
16							---	363	460	318	460	400
17							---	370	460	318	460	344
18							---	485	449	325	460	342
19							---	487	449	471	460	341
20							---	467	449	468	460	341
21							---	457	449	463	460	446
22							---	458	446	466	460	447
23							---	449	311	466	460	422
24							---	455	482	466	460	436
25							---	459	463	466	460	438
26							---	457	455	466	460	436
27							---	452	454	554	460	450
28							---	410	469	449	575	445
29							---	431	504	455	575	435
30							---	446	504	453	575	432
31							---	498	---	575	465	---
TOTAL							---	13266	13746	13861	14557	12495
MEAN							---	428	458	447	470	417
MAX							---	504	487	575	575	450
MIN							---	363	311	318	460	341
AC-FT							---	26310	27270	27490	28870	24780

KLAMATH RIVER BASIN

11525655 TRINITY RIVER BELOW LIMBKILN GULCH, NEAR DOUGLAS CITY, CA

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: April to September 1981.

SEDIMENT RECORD: April to September 1981.

EXTREMES FOR PERIOD (April to September 1981).--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 5 mg/L on several days during May to August; minimum daily mean, 1 mg/L on many days.

SEDIMENT LOADS: Maximum daily, 7.8 tons (7.1 metric tons) July 29; minimum daily, 0.86 ton (0.78 metric ton) July 15-17.

TEMPERATURE (DEG. C) OF WATER, APRIL TO SEPTEMBER 1981
ONCE-DAILY

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

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), APRIL TO SEPTEMBER 1981

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	---	---	---	431	4	4.7	487	3	3.9
2	---	---	---	407	4	4.4	486	3	3.9
3	---	---	---	396	5	5.3	482	3	3.9
4	---	---	---	382	5	5.2	479	3	3.9
5	---	---	---	375	5	5.1	477	3	3.9
6	---	---	---	372	3	3.0	476	3	3.9
7	---	---	---	373	2	2.0	471	3	3.8
8	---	---	---	373	2	2.0	471	3	3.8
9	---	---	---	487	2	2.6	470	3	3.8
10	---	---	---	488	1	1.3	466	3	3.8
11	---	---	---	380	1	1.0	460	4	5.0
12	---	---	---	373	1	1.0	460	4	5.0
13	---	---	---	364	1	.98	460	4	5.0
14	---	---	---	364	2	2.0	460	4	5.0
15	---	---	---	367	2	2.0	457	4	4.9
16	---	---	---	363	2	2.0	460	4	5.0
17	---	---	---	370	2	2.0	460	4	5.0
18	---	---	---	485	2	2.6	449	3	3.6
19	---	---	---	487	2	2.6	449	3	3.6
20	---	---	---	467	2	2.5	449	3	3.6
21	---	---	---	457	1	1.2	449	2	2.4
22	---	---	---	458	1	1.2	446	2	2.4
23	---	---	---	449	1	1.2	311	2	1.7
24	---	---	---	455	1	1.2	482	2	2.6
25	---	---	---	459	1	1.2	463	2	2.5
26	---	---	---	457	1	1.2	455	2	2.5
27	---	---	---	452	1	1.2	454	2	2.5
28	410	4	4.4	469	1	1.3	449	3	3.6
29	431	4	4.7	504	1	1.4	455	5	6.1
30	446	4	4.8	504	2	2.7	453	2	2.4
31	---	---	---	498	2	2.7	---	---	---
TOTAL	---	---	---	13266	---	70.78	13746	---	113.0

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	449	2	2.4	575	3	4.7	446	1	1.2
2	452	2	2.4	575	3	4.7	434	1	1.2
3	455	3	3.7	491	2	2.7	434	2	2.3
4	455	3	3.7	462	2	2.5	434	3	3.5
5	455	3	3.7	464	2	2.5	433	4	4.7
6	465	4	5.0	461	2	2.5	428	4	4.6
7	460	4	5.0	460	2	2.5	426	4	4.6
8	455	4	4.9	460	2	2.5	423	4	4.6
9	455	3	3.7	460	2	2.5	423	4	4.6
10	455	2	2.5	461	2	2.5	423	4	4.6
11	453	1	1.2	483	3	3.9	423	2	2.3
12	342	1	.92	460	3	3.7	403	2	2.2
13	322	1	.87	460	3	3.7	403	1	1.1
14	321	1	.87	460	3	3.7	403	1	1.1
15	320	1	.86	460	3	3.7	404	2	2.2
16	318	1	.86	460	3	3.7	400	2	2.2
17	318	1	.86	460	3	3.7	344	2	1.9
18	325	1	.88	460	3	3.7	342	2	1.8
19	471	1	1.3	460	2	2.5	341	2	1.8
20	468	2	2.5	460	2	2.5	341	3	2.8
21	463	2	2.5	460	2	2.5	446	3	3.6
22	466	2	2.5	460	2	2.5	447	3	3.6
23	466	2	2.5	460	4	5.0	422	2	2.3
24	466	1	1.3	460	5	6.2	436	2	2.4
25	466	1	1.3	460	4	5.0	438	2	2.4
26	466	2	2.5	460	3	3.7	436	2	2.4
27	554	3	4.5	460	2	2.5	450	2	2.4
28	575	4	6.2	460	2	2.5	445	2	2.4
29	575	5	7.8	460	2	2.5	435	2	2.3
30	575	4	6.2	460	2	2.5	432	2	2.3
31	575	4	6.2	465	1	1.3	---	---	---
TOTAL	13861	---	91.62	14557	---	100.6	12495	---	81.4
PERIOD	69212		471.30						

KLAMATH RIVER BASIN

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, APRIL TO SEPTEMBER 1981

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
APRIL 28-30	1287.00	13.90	25	39
MAY	13266.00	70.78	262	333
JUNE	13746.00	113.00	299	412
JULY	13861.00	91.62	298	390
AUGUST	14557.00	100.60	328	429
SEPTEMBER ..	12495.00	81.40	234	315
PERIOD.....	69212.00	471.30	1446	1918

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, APRIL TO SEPTEMBER 1981

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
APR								
29...	1400	14.0	1	418	0	1	2	3
29...	1405	14.0	1	418	--	0	1	6
29...	1410	14.0	1	418	--	--	--	0
29...	1415	14.0	1	418	--	--	0	2
29...	1420	14.0	1	418	--	0	1	3
JUN								
05...	1215	14.0	1	500	--	0	1	2
05...	1220	14.0	1	500	--	--	0	1
05...	1225	14.0	1	500	--	0	2	6
05...	1230	14.0	1	500	--	0	1	5
05...	1235	14.0	1	500	--	0	1	5
30...	1210	12.0	1	455	0	1	3	4
30...	1215	12.0	1	455	--	--	0	1
30...	1220	12.0	1	455	--	0	1	4
30...	1225	12.0	1	455	--	--	0	6
30...	1230	12.0	1	455	--	--	0	1
JUL								
27...	1340	14.0	1	575	--	--	0	2
27...	1345	14.0	1	575	--	--	0	1
27...	1350	14.0	1	575	--	0	1	3
27...	1355	14.0	1	575	--	--	0	1
27...	1400	14.0	1	575	--	0	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
APR							
29...	9	39	93	100	--	--	--
29...	39	76	94	98	100	--	--
29...	1	1	2	2	2	2	100
29...	19	63	99	100	--	--	--
29...	21	61	95	100	--	--	--
JUN							
05...	5	16	35	44	55	59	100
05...	5	15	21	22	23	30	100
05...	15	27	36	38	44	45	100
05...	11	15	21	24	28	33	100
05...	18	35	81	100	--	--	--
30...	9	36	88	100	--	--	--
30...	2	3	6	8	9	27	100
30...	9	13	18	20	21	24	100
30...	23	50	83	97	100	--	--
30...	10	40	51	53	63	100	--
JUL							
27...	13	45	92	100	--	--	--
27...	13	46	90	100	--	--	--
27...	11	23	35	37	44	51	100
27...	3	8	14	16	16	16	100
27...	23	44	85	99	100	--	--

11527000 TRINITY RIVER NEAR BURNT RANCH, CA

LOCATION.--Lat 40°47'20", long 123°26'20", in S½ sec.19, T.5 N., R.7 E., Trinity County, Hydrologic Unit 18010211, Trinity National Forest, on left bank 500 ft (152 m) upstream from Cedar Flat Creek, 700 ft (213 m) upstream from highway bridge at Cedar Flat, and 2.3 mi (3.7 km) southeast of town of Burnt Ranch.

DRAINAGE AREA.--1,439 mi² (3,727 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to September 1940, October 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WDR CA-78-2: 1975 (M).

GAGE.--Water-stage recorder. Datum of gage is 944.05 ft (287.746 m) National Geodetic Vertical Datum of 1929. Oct. 1, 1931, to Jan. 19, 1940, at site 2 mi (3 km) upstream at different datum.

REMARKS.--Records good. Flow regulated since November 1960 by Clair Engle Lake (station 11525400), 64 mi (103 km) upstream. Small diversions above station for mining and irrigation.

AVERAGE DISCHARGE.--13 years (water years 1932-40, 1957-60), 2,785 ft³/s (78.87 m³/s), 2,016,000 acre-ft/yr (2.49 km³/yr); 21 years (water years 1961-81), 1,594 ft³/s (45.14 m³/s), 1,155,000 acre-ft/yr (1.42 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,500 ft³/s (2,310 m³/s) Feb. 25, 1958, gage height, 30.50 ft (9.296 m), from rating curve extended above 40,000 ft³/s (1,130 m³/s) on basis of slope-area measurement at gage height 43.2 ft (13.17 m); minimum, 82 ft³/s (2.32 m³/s) Aug. 31, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 43.2 ft (13.17 m), from floodmarks, discharge, 172,000 ft³/s (4,870 m³/s), on basis of slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,800 ft³/s (391 m³/s) Feb. 14, gage height, 12.65 ft (3.856 m); minimum daily, 364 ft³/s (10.3 m³/s) Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	393	458	546	860	1810	1980	2180	1810	1140	705	651	515
2	390	487	1590	820	1620	1930	2020	1520	1120	694	653	469
3	390	526	4330	798	1530	1920	1890	1360	1100	676	642	466
4	387	499	4300	815	1480	2170	1780	1260	1070	672	540	466
5	386	483	1840	760	1450	2270	1720	1190	1120	670	533	466
6	387	473	1280	1040	1390	2120	1710	1130	1090	690	531	466
7	387	599	1050	1140	1330	2020	1660	1080	1010	681	523	462
8	386	1020	918	1130	1280	1950	1610	1050	1060	656	517	458
9	389	678	849	989	1250	1870	1550	1070	1060	632	512	458
10	388	587	798	837	1600	1790	1500	1250	965	622	507	458
11	397	541	760	705	1790	1740	1460	1150	917	619	517	458
12	469	515	735	651	1760	1720	1410	1080	889	594	525	453
13	495	499	715	632	3240	1750	1370	1060	869	472	507	435
14	529	490	700	622	10800	1670	1350	1070	844	455	506	435
15	528	484	720	613	5520	1690	1380	1040	819	447	507	431
16	492	478	1240	627	4770	1930	1370	995	826	436	510	427
17	474	475	1310	710	5800	2190	1400	947	848	428	507	417
18	467	471	1270	815	4100	2210	1440	1600	837	421	503	368
19	464	467	1230	877	3780	2160	1760	1460	899	456	499	365
20	462	466	1200	1030	3320	2070	1740	1300	961	576	498	364
21	462	470	1310	1310	2800	2030	1590	1190	871	568	502	372
22	460	548	1670	2930	2490	2140	1830	1130	861	568	503	484
23	457	582	1300	5440	2280	2120	1880	1120	811	564	503	469
24	456	560	1060	3190	2170	2050	2010	1190	635	559	498	466
25	468	531	1530	2260	2070	2670	1680	1450	820	556	498	492
26	468	512	1590	1950	2080	3530	1530	1450	777	558	498	498
27	466	503	1270	2390	2080	3170	1400	1350	770	562	502	568
28	462	494	1190	4250	2040	2860	1370	1230	750	652	505	788
29	456	497	1050	4030	---	2720	1690	1260	730	654	508	604
30	455	546	959	2660	---	2510	1850	1270	714	655	508	552
31	458	---	912	2100	---	2310	---	1180	---	654	506	---
TOTAL	13728	15939	41222	48981	77630	67260	49130	38242	27183	18152	16219	14130
MEAN	443	531	1330	1580	2773	2170	1638	1234	906	586	523	471
MAX	529	1020	4330	5440	10800	3530	2180	1810	1140	705	653	788
MIN	386	458	546	613	1250	1670	1350	947	635	421	498	364
AC-FT	27230	31610	81760	97150	154000	133400	97450	75850	53920	36000	32170	28030
CAL YR 1980 TOTAL	636491			MEAN 1739	MAX 14300	MIN 386	AC-FT 1262000					
WTR YR 1981 TOTAL	427816			MEAN 1172	MAX 10800	MIN 364	AC-FT 848600					

KLAMATH RIVER BASIN

11527000 TRINITY RIVER NEAR BURNT RANCH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.

CHEMICAL ANALYSES: Water years 1959-66.

WATER TEMPERATURES: Water years 1962-64, 1967, 1969 to current year.

SEDIMENT RECORDS: Water year 1968.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1961 to September 1964, October 1966 to September 1967, October 1968 to current year.

REMARKS.--Differences between recorder values before adjustment and field measurement values exceeded $\pm 1.0^{\circ}\text{C}$ for water temperature at times during the year.

INSTRUMENTATION.--Temperature recorder since October 1961.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 27.0°C Aug. 17-19, 24, 1967; minimum recorded, 0.0°C Dec. 7-11, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 26.5°C Aug 8, 26; minimum recorded, 3.0°C Dec. 9-14.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	12.5	11.0	10.5	7.0	6.0	8.0	7.5	6.0	5.5	8.0	6.0
2	18.5	13.0	11.0	10.0	7.0	6.0	7.5	7.0	6.0	5.0	8.5	6.5
3	18.0	13.5	12.0	11.0	8.0	7.0	7.5	7.5	5.0	4.5	8.5	8.5
4	18.0	13.0	12.0	11.5	8.0	7.5	7.5	7.5	5.0	4.5	8.5	7.0
5	17.5	13.5	11.5	11.0	7.5	7.0	7.5	7.0	6.0	5.0	7.0	5.5
6	18.0	14.0	12.0	10.5	7.5	6.5	7.0	7.0	5.5	4.5	8.0	6.0
7	17.5	13.5	12.0	11.5	6.5	4.5	7.5	7.0	5.0	4.0	8.5	7.5
8	17.0	13.0	12.5	11.0	4.5	3.5	8.0	7.5	6.0	4.0	10.5	7.5
9	16.5	13.0	11.0	10.5	3.5	3.0	8.0	7.5	7.5	5.5	10.5	7.5
10	15.5	12.5	10.5	9.0	4.0	3.0	7.5	7.5	6.5	5.0	10.0	7.5
11	14.0	12.0	9.0	8.0	4.0	3.0	7.5	7.0	8.5	6.5	12.0	8.5
12	13.0	11.5	8.0	6.5	3.5	3.0	7.0	6.0	9.0	7.5	10.0	7.5
13	12.5	11.5	6.5	6.0	3.5	3.0	6.5	6.0	9.0	8.5	9.0	8.0
14	11.5	10.5	7.5	5.0	3.5	3.0	6.5	6.0	8.5	7.5	9.5	8.0
15	11.5	10.0	7.0	6.0	4.5	3.5	7.5	6.0	8.5	7.5	9.0	7.5
16	11.5	9.0	7.0	5.5	5.5	4.5	8.5	7.5	8.5	8.5	10.5	7.0
17	11.5	9.5	7.0	5.5	6.0	5.5	9.0	8.5	9.0	7.5	9.0	6.0
18	11.5	10.0	7.0	6.0	7.0	6.0	9.5	9.0	9.5	8.0	8.5	7.5
19	12.0	10.0	7.0	6.5	8.0	7.0	9.5	9.5	9.5	7.5	9.5	7.5
20	12.5	10.0	7.5	6.0	8.5	8.0	9.5	9.5	7.5	6.5	9.5	7.5
21	12.5	10.5	7.0	6.5	9.0	8.5	10.5	9.5	7.0	5.5	9.5	7.5
22	12.5	10.5	9.0	7.0	8.5	8.5	10.5	10.0	8.5	6.5	11.0	8.0
23	12.0	9.5	9.5	9.0	8.5	8.0	10.0	9.5	8.5	7.0	10.5	8.0
24	12.0	10.5	9.0	7.0	8.0	7.5	9.5	7.5	8.5	7.0	10.5	8.5
25	11.5	11.0	7.0	6.0	8.5	7.5	7.5	6.5	7.0	6.0	10.0	9.0
26	12.0	10.5	6.5	5.5	9.5	8.5	6.5	6.5	7.0	5.5	9.0	7.5
27	12.0	11.5	6.5	6.5	9.5	9.0	6.5	6.0	7.5	6.0	11.5	7.5
28	12.0	9.0	7.0	6.5	9.0	8.5	6.5	6.0	7.5	5.5	12.5	7.5
29	10.5	8.0	7.5	7.0	8.5	8.5	6.5	6.0	---	---	11.5	9.0
30	10.5	8.0	7.5	7.0	8.5	8.0	6.5	6.0	---	---	10.5	7.0
31	11.0	9.0	---	---	8.0	8.0	6.0	5.5	---	---	9.0	7.5
MONTH	18.5	8.0	12.5	5.0	9.5	3.0	10.5	5.5	9.5	4.0	12.5	5.5

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[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 mi² (1,979 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 1,211.37 ft (369.226 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--16 years, 1,406 ft³/s (39.82 m³/s), 1,019,000 acre-ft/yr (1.26 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,300 ft³/s (1,960 m³/s) Jan. 16, 1974, gage height, 26.68 ft (8.132 m), from rating curve extended above 23,000 ft³/s (651 m³/s) on basis of flood-routing study at gage height 30.45 ft (9.281 m); minimum daily, 14 ft³/s (0.40 m³/s) Aug. 24, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 30.45 ft (9.281 m), from floodmarks, discharge, 88,000 ft³/s (2,490 m³/s), on basis of flood-routing study.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,600 ft³/s (244 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 22	2300	9180 260	11.20 3.414
Feb. 14	0515	*18100 513	15.03 4.581

Minimum daily discharge, 30 ft³/s (0.85 m³/s) Sept. 15-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	100	205	360	2020	1980	2220	726	379	144	62	38
2	55	103	810	336	1780	1920	2020	699	365	140	62	38
3	54	107	3500	339	1580	1870	1830	678	354	135	61	38
4	53	109	4300	395	1450	2060	1650	661	341	131	62	38
5	53	109	1950	367	1370	2040	1550	639	330	125	62	37
6	52	106	874	340	1290	1940	1480	619	316	127	61	38
7	50	124	598	324	1210	1850	1410	607	309	131	59	37
8	50	161	465	309	1160	1750	1340	590	311	129	56	35
9	50	164	374	297	1140	1670	1290	575	312	121	53	33
10	48	143	345	286	1160	1590	1230	560	299	118	51	33
11	49	131	313	272	1320	1520	1170	545	287	115	47	33
12	71	126	301	263	1630	1450	1130	529	283	112	45	31
13	107	121	293	257	5500	1480	1080	512	283	110	44	31
14	144	120	276	246	12700	1410	1050	503	277	107	44	31
15	143	120	276	241	5880	1540	1010	495	266	104	43	30
16	120	120	270	249	4390	1920	983	491	255	101	42	30
17	104	120	265	310	4460	1720	956	496	240	97	41	30
18	97	120	250	405	3640	1650	931	713	230	94	41	30
19	94	120	241	487	3360	1660	1090	681	227	91	39	30
20	92	117	232	817	3100	1750	1280	584	218	88	39	30
21	91	122	277	1150	2710	2120	1100	541	206	84	40	31
22	92	153	446	4560	2430	2670	1030	511	199	82	41	31
23	90	184	395	5700	2220	2540	984	488	192	81	41	33
24	90	170	345	2870	2190	2300	949	477	190	79	40	34
25	98	152	431	1940	2060	2840	915	496	182	76	39	38
26	100	138	457	1700	2130	3690	893	485	176	73	41	49
27	100	130	442	3830	2100	3280	851	487	169	72	42	93
28	100	125	484	6260	2030	3010	807	448	166	70	41	133
29	97	140	456	4720	---	2850	781	419	158	67	41	109
30	98	165	418	3200	---	2580	762	406	149	66	41	90
31	98	---	386	2410	---	2320	---	390	---	64	39	---
TOTAL	2596	3920	20675	45240	78010	64970	35772	17051	7669	3134	1460	1312
MEAN	83.7	131	667	1459	2786	2096	1192	550	256	101	47.1	43.7
MAX	144	184	4300	6260	12700	3690	2220	726	379	144	62	133
MIN	48	100	205	241	1140	1410	762	390	149	64	39	30
AC-FT	5150	7780	41010	89730	154700	128900	70950	33820	15210	6220	2900	2600
CAL YR 1980	TOTAL	510418	MEAN	1395	MAX	25800	MIN	48	AC-FT	1012000		
WTR YR 1981	TOTAL	281809	MEAN	772	MAX	12700	MIN	30	AC-FT	559000		

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to May 1979, December 1980 to September 1981.

CHEMICAL ANALYSES: Water year 1977.

WATER TEMPERATURES: Water years 1966 to May 1979, December 1980 to September 1981.

SEDIMENT RECORDS: Water years 1967-70, December 1980 to September 1981.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1965 to May 1979, December 1980 to September 1981.

SEDIMENT RECORDS: October 1966 to September 1970, December 1980 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 29.0°C June 30, July 1, 3, 1967, Aug. 1, 2, 1968; minimum recorded, 0.0°C several days in 1965, 1967-68, 1972.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 5,080 mg/L Jan. 24, 1970; minimum daily mean, 1 mg/L on many days each year.

SEDIMENT DISCHARGE: Maximum daily, 623,000 tons (565,000 metric tons) Jan 24, 1970; minimum daily, 0.08 ton (0.07 metric ton) Sept. 22, 1981.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum observed, 27°C Aug. 8; minimum observed, 4.5°C Dec. 14.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 660 mg/L Feb. 14; minimum daily mean, 1 mg/L on many days.

SEDIMENT DISCHARGE: Maximum daily, 25,700 tons (23,300 metric tons) Feb. 14; minimum daily, 0.08 ton (0.07 metric tons) Sept. 22.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	8.0	7.5	---	8.5	16.0	---	---	---	---
2			---	8.0	---	---	9.5	15.0	---	---	---	15.0
3			---	8.5	6.0	---	10.0	15.5	---	---	24.0	18.0
4			8.0	8.5	---	7.5	---	---	---	25.0	---	17.0
5			8.0	8.0	7.0	---	11.5	14.5	---	---	26.0	25.0
6			8.0	8.5	7.0	8.0	---	14.0	18.5	---	---	16.0
7			6.0	6.0	7.0	---	11.5	---	---	---	---	---
8			6.5	7.0	7.0	---	10.5	---	---	---	27.0	---
9			6.0	---	---	---	11.0	17.0	---	23.0	---	---
10			5.5	7.0	6.5	9.5	11.0	---	17.0	---	24.0	23.0
11			5.5	---	8.0	---	---	---	---	---	---	---
12			6.5	7.0	---	11.0	11.5	18.0	---	---	---	---
13			5.0	---	7.5	---	13.0	---	---	---	---	---
14			4.5	8.0	9.0	10.0	---	16.0	18.5	23.0	---	23.0
15			5.5	---	10.0	---	13.0	---	---	---	25.0	---
16			---	8.0	9.0	---	13.0	17.0	---	---	---	---
17			6.5	---	8.5	9.0	15.0	---	20.0	22.5	---	---
18			---	9.0	8.5	---	---	17.5	---	---	---	23.0
19			5.5	8.5	---	9.0	15.5	---	---	---	---	---
20			---	9.0	8.0	8.5	13.0	16.5	---	24.5	---	---
21			9.0	9.5	---	8.5	15.0	16.0	21.5	---	23.0	---
22			8.5	9.5	8.5	10.0	16.0	---	---	---	---	19.5
23			8.0	9.5	---	10.0	---	---	22.5	24.0	---	---
24			8.0	9.0	7.5	9.0	15.5	---	---	---	23.5	---
25			9.0	---	---	9.5	13.0	18.5	---	---	---	19.0
26			9.0	---	7.0	8.0	14.0	20.5	23.5	---	---	18.0
27			9.0	5.5	---	8.0	14.5	20.5	---	25.0	---	18.5
28			9.5	6.0	7.5	---	16.0	---	21.0	---	---	18.5
29			9.0	6.0	---	8.5	18.0	---	---	---	---	---
30			9.0	7.0	---	9.0	18.0	20.0	23.5	25.0	---	---
31			8.5	---	---	---	---	---	---	---	---	---
MONTH			7.5	---	---	---	13.0	---	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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							205	2	1.1
2							810	46	101
3							3500	444	4200
4							4300	215	2500
5							1950	30	158
6							874	15	35
7							598	6	9.7
8							465	3	3.8
9							374	2	2.0
10							345	1	.93
11							313	1	.85
12							301	2	1.6
13							293	3	2.4
14							276	2	1.5
15							276	1	.75
16							270	1	.73
17							265	2	1.4
18							250	2	1.4
19							241	1	.65
20							232	1	.63
21							277	3	2.2
22							446	6	7.2
23							395	2	2.1
24							345	1	.93
25							431	3	3.5
26							457	3	3.7
27							442	2	2.4
28							484	1	1.3
29							456	1	1.2
30							418	1	1.1
31							386	1	1.0
TOTAL							20675	---	7050.07

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	360	1	.97	2020	38	207	1980	11	59
2	336	1	.91	1780	30	144	1920	10	52
3	339	1	.92	1580	22	94	1870	9	45
4	395	1	1.1	1450	14	55	2060	16	89
5	367	1	.99	1370	9	33	2040	20	110
6	340	1	.92	1290	6	21	1940	17	89
7	324	1	.87	1210	7	23	1850	15	75
8	309	1	.83	1160	10	31	1750	14	66
9	297	1	.80	1140	6	18	1670	13	59
10	286	1	.77	1160	3	9.4	1590	11	47
11	272	1	.73	1320	5	18	1520	10	41
12	263	1	.71	1630	14	62	1450	6	23
13	257	1	.69	5500	316	7960	1480	4	16
14	246	1	.66	12700	660	25700	1410	3	11
15	241	1	.65	5880	184	3080	1540	16	73
16	249	1	.67	4390	100	1190	1920	25	130
17	310	2	1.7	4460	70	843	1720	6	28
18	405	3	3.3	3640	40	393	1650	4	18
19	487	11	14	3360	33	299	1660	4	18
20	817	19	42	3100	32	268	1750	5	24
21	1150	20	62	2710	30	220	2120	22	129
22	4560	430	8060	2430	28	184	2670	55	396
23	5700	263	4870	2220	26	156	2540	24	165
24	2870	80	620	2190	24	142	2300	11	68
25	1940	60	314	2060	20	111	2840	51	436
26	1700	42	193	2130	17	98	3690	80	807
27	3830	333	4570	2100	15	85	3280	36	319
28	6260	287	4930	2030	13	71	3010	28	228
29	4720	150	1910	---	---	---	2850	21	162
30	3200	70	605	---	---	---	2580	14	98
31	2410	49	319	---	---	---	2320	9	56
TOTAL	45240	---	26527.19	78010	---	41455.4	64970	---	3937

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	2220	8	48	726	3	5.9	379	1	1.0	
2	2020	9	49	699	5	9.4	365	1	.99	
3	1830	10	49	678	3	5.5	354	1	.96	
4	1650	7	31	661	2	3.6	341	1	.92	
5	1550	3	13	639	2	3.5	330	1	.89	
6	1480	3	12	619	2	3.3	316	2	1.7	
7	1410	4	15	607	2	3.3	309	2	1.7	
8	1340	4	14	590	2	3.2	311	2	1.7	
9	1290	3	10	575	2	3.1	312	2	1.7	
10	1230	7	23	560	2	3.0	299	2	1.6	
11	1170	7	22	545	1	1.5	287	2	1.5	
12	1130	4	12	529	1	1.4	283	2	1.5	
13	1080	4	12	512	2	2.8	283	2	1.5	
14	1050	3	8.5	503	8	11	277	2	1.5	
15	1010	2	5.5	495	4	5.3	266	2	1.4	
16	983	3	8.0	491	3	4.0	255	2	1.4	
17	956	2	5.2	496	3	4.0	240	2	1.3	
18	931	2	5.0	713	9	17	230	2	1.2	
19	1090	9	26	681	3	5.5	227	2	1.2	
20	1280	12	41	584	2	3.2	218	2	1.2	
21	1100	4	12	541	1	1.5	206	2	1.1	
22	1030	3	8.3	511	1	1.4	199	1	.54	
23	984	5	13	488	1	1.3	192	1	.52	
24	949	5	13	477	1	1.3	190	1	.51	
25	915	3	7.4	496	3	4.0	182	1	.49	
26	893	3	7.2	485	1	1.3	176	1	.48	
27	851	3	6.9	487	1	1.3	169	1	.46	
28	807	2	4.4	448	1	1.2	166	1	.45	
29	781	2	4.2	419	1	1.1	158	1	.43	
30	762	2	4.1	406	1	1.1	149	2	.80	
31	---	---	---	390	1	1.1	---	---	---	
TOTAL	35772	---	489.7	17051	---	116.1	7669	---	32.64	
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	144	2	.78	62	2	.33	38	2	.21	
2	140	2	.76	62	2	.33	38	1	.10	
3	135	2	.73	61	2	.33	38	1	.10	
4	131	2	.71	62	3	.50	38	2	.21	
5	125	2	.68	62	5	.84	37	3	.30	
6	127	2	.69	61	4	.66	38	3	.31	
7	131	3	1.1	59	3	.48	37	2	.20	
8	129	3	1.0	56	7	1.1	35	3	.28	
9	121	3	.98	53	3	.43	33	4	.36	
10	118	3	.96	51	2	.28	33	7	.62	
11	115	3	.93	47	2	.25	33	5	.45	
12	112	3	.91	45	3	.36	31	4	.33	
13	110	2	.59	44	2	.24	31	3	.25	
14	107	2	.58	44	3	.36	31	3	.25	
15	104	2	.56	43	4	.46	30	3	.24	
16	101	2	.55	42	3	.34	30	2	.16	
17	97	2	.52	41	3	.33	30	2	.16	
18	94	2	.51	41	3	.33	30	2	.16	
19	91	2	.49	39	2	.21	30	2	.16	
20	88	2	.48	39	2	.21	30	2	.16	
21	84	2	.45	40	2	.22	31	2	.17	
22	82	2	.44	41	3	.33	31	1	.08	
23	81	2	.44	41	4	.44	33	2	.18	
24	79	1	.21	40	8	.86	34	4	.37	
25	76	1	.21	39	5	.53	38	6	.62	
26	73	1	.20	41	4	.44	49	3	.40	
27	72	1	.19	42	4	.45	93	5	1.3	
28	70	1	.19	41	3	.33	133	7	2.5	
29	67	1	.18	41	3	.33	109	5	1.5	
30	66	1	.18	41	2	.22	90	3	.73	
31	64	1	.17	39	2	.21	---	---	---	
TOTAL	3134	---	17.37	1460	---	12.73	1312	---	12.86	
YEAR										

KLAMATH RIVER BASIN

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, PERIOD DECEMBER 1980 TO SEPTEMBER 1981

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
DECEMBER 1980	20675	7050.07	2610	9660
JANUARY 1981.	45240	26527.19	10200	36700
FEBRUARY	78010	41455.40	17200	58700
MARCH	64970	3937.00	12600	16500
APRIL	35772	489.70	2530	3020
MAY	17051	116.10	2	118
JUNE	7669	32.64	0	33
JULY	3134	17.37	0	17
AUGUST	1460	12.73	0	13
SEPTEMBER ...	1312	12.86	0	13
TOTAL	275293	79651.06	45142	124774

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 04...	1235	8.0	3710	149	1490	--	--	--
FEB 14...	1145	9.0	13200	587	20900	9	18	28
MAR 22...	1155	9.0	2760	70	522	--	--	--
26...	0855	7.0	4050	91	995	--	--	--

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
DEC 04...	--	--	58	63	75	94	100
FEB 14...	38	49	65	88	98	100	--
MAR 22...	--	--	60	77	88	97	100
26...	--	--	60	70	87	96	100

11529000 SOUTH FORK TRINITY RIVER NEAR SALYER, CA

LOCATION.--Lat 40°50'05", long 123°34'00", in SE¼ sec.1, T.5 N., R.5 E., Humboldt County, Hydrologic Unit 18010212, on right bank at downstream side of bridge on Louisiana-Pacific Logging Road, 30 ft (9m) upstream from Ammon Creek and 4.0 mi (6.4 km) south of Salyer.

DRAINAGE AREA.--898 mi² (2326 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1911 to September 1913, October 1950 to September 1965, December 1980 to current year. Monthly discharge only 1912-13, seasonal record only December 1 to April 30, since December 1980. Published as "Near China Flat" 1912-13.

GAGE.--Nonrecording gage and crest-stage gage. Altitude of gage is 570 ft (174 m), from topographic map. October 1911 to September 1913, nonrecording gage at site 6.8 mi (10.9 km) downstream at different datum. October 1950 to September 1965, water-stage recorder at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--Records good except for storm periods in January and February which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--17 years (water years 1912-1913, 1951-1965) 1,765 ft³/s (50.0 m³/s), 1,279,000 acre-ft/yr (1.58 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 95,400 ft³/s (2,700 m³/s) Dec. 22, 1964, gage height 47.6 ft (14.51 m), from floodmarks, site and datum then in use, from rating curve extended above 21,000 ft³/s (595 m³/s) by slope-conveyance study; minimum daily, 54 ft³/s (1.53 m³/s) Sept. 10, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10,000 ft³/s (283 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 23	unknown	13,000	368	unknown	
Feb. 14	unknown	*26,000	736	unknown	

Minimum daily, 300 ft³/s (8.50 m³/s) Dec. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			300	535	2540	2450	2950					
2			1700	505	2250	2370	2720					
3			4680	500	2090	2290	2540					
4			6320	565	1880	2290	2330					
5			2450	525	1800	2410	2130					
6			1500	490	1700	2330	1950					
7			1080	470	1530	2170	1840					
8			825	455	1560	2090	1740					
9			682	440	1630	1980	1670					
10			595	430	1700	1910	1600					
11			495	410	1740	1800	1500					
12			465	400	1910	1630	1440					
13			447	395	6300	1660	1380					
14			429	380	18500	1770	1320					
15			417	365	11000	1910	1260					
16			400	375	6200	1940	1230					
17			392	420	5800	1910	1220					
18			380	567	4750	1910	1210					
19			368	740	4190	1910	1260					
20			350	1050	3780	1980	1500					
21			380	1380	3350	2330	1440					
22			670	7120	3050	3050	1350					
23			595	8500	2720	3100	1260					
24			515	4250	2680	2900	1230					
25			610	2630	2630	2720	1180					
26			680	2410	2580	3680	1150					
27			665	6800	2570	4550	1100					
28			720	9100	2540	3680	1050					
29			675	6560	---	3460	983					
30			625	4490	---	3350	938					
31			580	3300	---	3200	---					
TOTAL			30990	66557	104970	76730	46471	---				
MEAN			1000	2147	3749	2475	1549	---				
MAX			6320	9100	18500	4550	2950	---				
MIN			300	365	1530	1630	938	---				
AC-FT			61470	132000	208200	152200	92180	---				

KLAMATH RIVER BASIN

11529000 S.F. TRINITY RIVER NEAR SALYER, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-65, 1981.

WATER TEMPERATURES: Water years 1957-65, December 1980 to April 1981.

SEDIMENT RECORDS: Water years 1957-65, December 1980 to April 1981.

TURBIDITY: December 1980 to April 1981.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1956 to September 1965.

SEDIMENT RECORDS: November 1956 to September 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 25.5°C July 26, 27, 1964; minimum recorded, 1.5°C Jan. 2, 3, 1965.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			7.5	---	---	---		---				
2			8.0	---	7.0	8.0		---				
3			9.0	---	7.0	---		---				
4			8.0	---	5.5	---		---				
5			6.0	---	7.5	6.5		12.0				
6			7.5	---	---	---		---				
7			6.5	7.0	6.0	---		---				
8			---	---	---	---		---				
9			---	---	8.0	---		---				
10			---	---	---	---		---				
11			4.5	---	8.0	---		---				
12			---	---	10.0	---		---				
13			---	---	---	---		---				
14			5.0	---	---	---		---				
15			4.5	---	10.0	---		---				
16			7.0	7.5	---	---		---				
17			---	7.5	---	---		---				
18			---	7.5	9.5	---		---				
19			7.5	7.5	9.5	---		---				
20			7.5	7.5	---	---		---				
21			9.0	7.5	9.5	---		---				
22			---	7.5	---	---		---				
23			---	---	9.0	---		---				
24			---	7.5	7.5	---		---				
25			---	7.5	---	---		---				
26			---	7.5	6.5	---		---				
27			---	6.5	---	---		---				
28			---	---	8.5	---		---				
29			---	6.5	---	---		---				
30			---	7.0	---	9.0		---				
31			---	---	---	---		---				
MEAN			7.0	7.5	8.0	8.0		12.0				
WTR YR 1981	MEAN	7.5		MAX	12.0	MIN	4.5					

SUMMARY OF WATER AND SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), DECEMBER 1980 TO APRIL 1981

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS
DECEMBER 1980	30990	15440
JANUARY 1981.	66557	53940
FEBRUARY.....	104970	93180
MARCH.....	76730	4490
APRIL.....	46471	1440
PERIOD.....	325718	168490

11529000 S.F. TRINITY RIVER NEAR SALYER, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
DEC 03...	1555	9.0	4620	374	4670	28	38	49
MAR 26...	1705	8.5	4680	139	1760	--	--	--

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
DEC 03...	62	73	80	89	95	98	100
MAR 26...	--	--	53	63	76	88	100

SUMMARY OF WATER AND SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), DECEMBER 1980 TO APRIL 1981

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS
DECEMBER 1980	30990	15440
JANUARY 1981.	66557	53940
FEBRUARY.....	104970	93180
MARCH.....	76730	4490
APRIL.....	46471	1440
PERIOD.....	325718	168490

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SEDI- MENT, SUS- PENDE (MG/L)	TUR- BID- ITY (NTU)
DEC			
01...	1245	28	2.0
01...	2100	54	24
02...	0850	425	130
02...	1320	692	130
03...	1555	377	100
03...	1900	786	100
04...	1010	402	85
04...	1415	262	65
04...	1655	213	54
05...	0635	98	83
06...	1920	26	10
07...	1640	14	4.0
08...	0630	14	4.0
09...	1315	10	2.0
10...	2130	18	4.0
11...	1320	11	3.0
11...	1445	4	2.0
13...	2220	7	3.0
14...	1410	5	3.0
15...	1320	9	3.0
16...	1700	9	3.0
16...	2140	4	1.0
19...	2145	4	2.0
20...	1815	6	2.0
21...	1650	14	3.0
JAN			
07...	1710	2	1.0
16...	1230	8	1.0
16...	2215	12	2.0
17...	1135	12	2.0
18...	1740	5	1.0
19...	2105	73	25
20...	1415	37	3.0
20...	1930	45	7.0
21...	0945	34	3.0
21...	1730	39	4.0
22...	1125	426	--
24...	1605	85	75
25...	1330	42	10
26...	0730	48	8.0

KLAMATH RIVER BASIN

11529000 S.F. TRINITY RIVER NEAR SALYER, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION
AND TURBIDITY, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SEDI- MENT, SUS- PENDED (MG/L)	TUR- BID- ITY (NTU)
JAN			
26...	1615	41	9.0
27...	1540	418	110
29...	1700	146	30
30...	1315	76	20
FEB			
02...	1850	28	3.0
03...	1505	26	3.0
04...	1430	19	3.0
05...	2215	14	4.0
07...	1015	14	2.0
09...	1240	12	1.0
11...	2215	21	1.0
12...	2250	25	1.0
15...	2205	170	35
18...	0730	87	20
18...	2105	67	15
19...	0740	62	15
21...	1715	59	10
23...	1745	32	10
24...	0735	33	10
24...	1705	39	5.0
26...	0740	69	20
28...	1705	19	5.0
MAR			
02...	1640	16	--
03...	1805	17	3.0
04...	2025	24	3.0
05...	1620	18	5.0
05...	2110	20	1.0
06...	1825	16	2.0
07...	1445	10	1.0
08...	2105	11	1.0
11...	2135	11	1.0
12...	1640	8	2.0
15...	2105	25	4.0
17...	1720	12	1.0
18...	1720	17	3.0
20...	1325	10	1.0
21...	1035	30	6.0
21...	1750	27	3.0
22...	1935	71	10
24...	0945	34	8.0
25...	1750	20	4.0
26...	1705	139	25
30...	1645	31	7.0
APR			
06...	1705	19	2.0
12...	1645	11	1.0
15...	1705	7	2.0
20...	1915	26	1.0
21...	2020	6	1.0
23...	1715	11	1.0
25...	1105	18	2.0
27...	1805	7	2.0
28...	1800	13	1.0
MAY			
05...	1025	3	1.0

11530000 TRINITY RIVER AT HOOPA, CA

LOCATION.--Lat 41°03'00", long 123°40'15", in SE¼NW¼ sec.25, T.8 N., R.4 E., Humboldt County, Hydrologic Unit 18010211, in Hoopa Valley Indian Reservation, on left bank at Hoopa, 0.4 mi (0.6 km) upstream from Supply Creek.

DRAINAGE AREA.--2,853 mi² (7,389 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1911 to January 1914, October 1916 to September 1918, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "near Hoopa" 1931-60.

REVISED RECORDS.--WSP 1565: 1913. WDR CA-77-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 274.82 ft (83.765 m) National Geodetic Vertical Datum of 1929. Prior to October 1931, nonrecording gage at site 0.4 mi (0.6 km) upstream at different datum. October 1931 to Dec. 22, 1964, water-stage recorder at site 2.5 mi (4.0 km) upstream at datum 31.67 ft (9.653 m) higher.

REMARKS.--Records good. Flow regulated since November 1960 by Clair Engle Lake (station 11525400) 84 mi (135 km) upstream. Small diversions above station for mining and irrigation.

AVERAGE DISCHARGE (unadjusted).--54 years (water years 1912-13, 1917-18, 1932-81), 5,224 ft³/s (147.9 m³/s), 3,785,000 acre-ft/yr (4.67 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 231,000 ft³/s (6,540 m³/s) Dec. 22, 1964, gage height, 57.0 ft (17.37 m) present site and datum, from floodmarks; minimum, 162 ft³/s (4.59 m³/s) Oct. 4, 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 22,000 ft³/s (623 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 23	0515	23600	668	24.45	7.452
Feb. 14	1045	*40900	1160	28.90	8.809

Minimum daily discharge, 460 ft³ (13.0 m³/s) Sept. 19-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	573	730	1210	2010	5910	5800	7090	3380	2030	1070	838	612
2	566	808	5390	1880	5210	5630	6500	3050	1990	1070	836	613
3	560	845	14800	1790	4750	5500	5970	2820	1950	1030	845	583
4	554	818	16700	1820	4460	6120	5520	2670	1900	1010	787	579
5	549	783	7230	1760	4270	6350	5200	2550	1890	995	721	578
6	549	756	4440	1790	4110	5920	5010	2440	1880	1010	716	577
7	548	888	3240	2010	3870	5640	4780	2360	1820	1030	701	570
8	543	1660	2600	1960	3650	5390	4540	2300	1870	1010	691	560
9	543	1320	2250	1850	3500	5100	4320	2260	1900	965	680	555
10	543	1080	2030	1640	3620	4830	4110	2320	1770	946	666	552
11	555	953	1860	1470	3990	4650	3930	2320	1670	933	659	558
12	666	882	1740	1340	4430	4480	3770	2180	1620	922	668	555
13	843	836	1650	1300	7510	4530	3610	2120	1610	827	650	542
14	1040	813	1560	1270	33800	4310	3490	2100	1580	750	642	527
15	1060	799	1510	1240	18700	4340	3440	2100	1520	724	639	529
16	903	785	1830	1230	13100	5360	3380	2080	1470	706	641	528
17	812	774	2150	1320	16400	5250	3320	2010	1460	687	638	524
18	765	770	2060	1530	11800	5210	3330	2910	1430	677	634	493
19	743	760	1990	1740	10600	5130	3710	3250	1420	666	627	460
20	730	758	1920	2270	10000	5180	4380	2710	1500	767	630	460
21	720	786	2100	2700	8520	5340	3820	2450	1440	806	635	460
22	718	1040	2910	6960	7540	6510	3920	2300	1370	794	639	521
23	710	1130	2550	18500	6800	6510	3940	2220	1330	785	637	599
24	710	1070	2120	9320	6600	6020	4060	2220	1190	772	629	566
25	754	995	2540	6480	6200	7170	3680	2480	1200	757	632	594
26	758	927	3430	5580	6180	11600	3440	2640	1220	760	627	641
27	746	885	2910	8280	6150	10700	3190	2440	1200	752	630	827
28	734	855	2830	16200	5990	9580	3040	2300	1170	799	631	1200
29	723	875	2550	15200	---	9050	3230	2200	1130	844	625	1020
30	711	998	2310	9480	---	8440	3440	2200	1100	845	616	845
31	703	---	2150	7160	---	7520	---	2110	---	845	616	---
TOTAL	21632	27379	106560	139080	227660	193160	125160	75490	46630	26554	20826	18228
MEAN	698	913	3437	4486	8131	6231	4172	2435	1554	857	672	608
MAX	1060	1660	16700	18500	33800	11600	7090	3380	2030	1070	845	1200
MIN	543	730	1210	1230	3500	4310	3040	2010	1100	666	616	460
AC-FT	42910	54310	211400	275900	451600	383100	248300	149700	92490	52670	41310	36160
CAL YR 1980	TOTAL	1750869	MEAN	4784	MAX	60400	MIN	543	AC-FT	3473000		
WTR YR 1981	TOTAL	1028359	MEAN	2817	MAX	33800	MIN	460	AC-FT	2040000		

KLAMATH RIVER BASIN

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, 26.0°C Aug. 9-11; minimum recorded, 4.0°C Dec. 13-15.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM FLOW, INST-CFS	SPECIFIC COND MICROMHO	PH FIELD (UNITS)	TEMP WATER (DEG C)	TURB- IDITY (NTU)	OXYGEN DISS (MG/L)	COD LOWLEVEL (MG/L)	BOD 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM CA, DISS (MG/L)
80/10/13	12 30	843		7.7		0.0	8.0	3.0		89	24
80/11/10	13 45	989	169	8.2		1.0	11.2	5.0			
80/12/09	10 25	2290	177	7.4	5.5	4.0	11.2	5.0			
81/01/04	12 30	1820	178	7.9	8.9	1.0	11.9	2.0			
81/02/02	10 45	5250	182	7.9	7.0	9.0	12.5	1.0			
81/03/02	12 20	5620	164	7.7	10.0	6.0	11.7	5.0			
81/04/06	12 10	5020	163	7.7	12.0	5.0	11.5	7.0			
81/05/11	10 45	2320	167	8.0	17.5	1.0	10.1	4.0	0.6		
81/06/22	12 00	1360	167	7.9	22.5	1.0	9.6	3.0			
81/07/13	11 25		188	7.9	24.5	1.0	9.1				
81/08/11	10 45		157	8.1	26.5	1.0	8.8			74	18
81/09/15	11 15		164	8.3	23.0	1.0	11.6				

DATE	TIME	MGNSIUM MG, DISS (MG/L)	SODIUM NA, DISS (MG/L)	PTSIUM K, DISS (MG/L)	ALKA- LINITY (MG/L)	CHLORIDE TOTAL (MG/L)	RESIDUE TOT NFLT (MG/L)	NO2+N03 N-DISS (MG/L)	AMMONIA N DISS (MG/L)	AMMONIA+ ORG TOT N (MG/L)
80/10/13	12 30		7		0.8	80	5	0	0.04	
80/11/10	13 45							0	0.02	
80/12/09	10 25							8	0.04	0.40
81/01/04	12 30							0	0.02	0.10
81/02/02	10 45							28	0.05	0.20
81/03/02	12 20							16	0.02	0.10
81/04/06	12 10							8	0.02	0.00
81/05/11	10 45							5	0.01	0.10
81/06/22	12 00							0	0.01	0.10
81/07/13	11 25									
81/08/11	10 45		7	4	1.4	75	5		0.00	
81/09/15	11 15									

DATE	TIME	PHOS-TOT AS P (MG/L)	PHOS-DIS ORTHO P (MG/L)
80/10/13	12 30	0.01	
80/11/10	13 45		0.00
80/12/09	10 25	0.02	
81/01/04	12 30	0.01	0.00
81/02/02	10 45	0.03	0.00
81/03/02	12 20	0.02	
81/04/06	12 10	0.00	
81/05/11	10 45	0.01	0.01
81/06/22	12 00	0.01	
81/07/13	11 25		
81/08/11	10 45		
81/09/15	11 15		

DATE	TIME	ARSENIC AS, DISS (UG/L)	BARIUM BA, DISS (UG/L)	BORON B, DISS (UG/L)	CADMIUM CD, DISS (UG/L)	CHROMIUM CR, DISS (UG/L)	COPPER CU, DISS (UG/L)	IRON FE, DISS (UG/L)	LEAD PB, DISS (UG/L)	MANGNESE MN, DISS (UG/L)	MERCURY HG, TOTAL (UG/L)
80/10/13	12 30			0							
81/05/11	10 45	0	0		0	0	0	10	0	10	0.0
81/08/11	10 45			0							

DATE	TIME	SELENIUM SE, DISS (UG/L)
80/10/13	12 30	
81/05/11	10 45	0
81/08/11	10 45	

11530000 TRINITY RIVER AT HOOPA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CA
(National stream-quality accounting network station)

LOCATION.--Lat 41°30'52", long 123°59'57", in SW¼ sec.13, T.13 N., R.2 E., Del Norte County, Hydrologic Unit 18010209, on right bank 0.2 mi (0.3 km) upstream from Turwar Creek, and 2.2 mi (3.5 km) southeast of Klamath.

DRAINAGE AREA.--12,100 mi² (31,340 km²), approximately (not including Lost River or Lower Klamath Lake basins).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to December 1926 (published as "near Requa"), October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1951(P). WSP 1445: 1918-20.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to June 1926, nonrecording gage at site 2.6 mi (4.2 km) upstream at different datum. June 1926 to Oct. 2, 1975, at site 2.6 mi (4.2 km) upstream at datum 5.60 ft (1.707 m) higher.

REMARKS.--Records fair. Flow generally affected by tide. Flow considerably regulated by reservoirs and powerplants above station. Large diversions for irrigation above station.

AVERAGE DISCHARGE.--47 years, 17,260 ft³/s (488.8 m³/s), 12,500,000 acre-ft/yr (15.4 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 557,000 ft³/s (15,800 m³/s) Dec. 23, 1964, gage height, 55.3 ft (16.86 m) former datum, from floodmarks, from rating curve extended above 230,000 ft³/s (6,510 m³/s) on basis of flood-routing study; minimum daily, 1,310 ft³/s (37.1 m³/s) Sept. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 81,400 ft³/s (2,310 m³/s) Feb. 14, gage height, 18.76 ft (5.718 m), no peak above base of 90,000 ft³/s (2,550 m³/s); minimum daily, 2,300 ft³/s (65.1 m³/s) Sept. 19-20.

REVISIONS.--Revised daily discharges, in cubic feet per second, for July-September 1980, are given below. These figures supersede those published in the report for 1980.

July 7, 1980..... 6250	July 29, 1980..... 4170	August 20, 1980..... 3700	Sept. 10, 1980..... 3780
8..... 6180	30..... 4110	21..... 3600	11..... 3680
9..... 5800	31..... 4040	22..... 3560	12..... 3680
10..... 5540	August 1, 1980..... 3930	23..... 3540	13..... 3680
11..... 5620	2..... 3850	24..... 3640	14..... 3870
12..... 5410	3..... 4150	25..... 3720	15..... 3890
13..... 5440	4..... 4170	26..... 3700	16..... 3870
14..... 5520	5..... 4150	27..... 3560	17..... 3800
15..... 5410	6..... 4080	28..... 3480	18..... 3680
16..... 5260	7..... 3950	29..... 3520	19..... 3640
17..... 5210	8..... 3930	30..... 3480	20..... 3700
18..... 5140	9..... 3870	31..... 3600	21..... 3740
19..... 4890	10..... 4040	Sept. 1, 1980..... 3620	22..... 3680
20..... 4770	11..... 4040	2..... 3560	23..... 3640
21..... 4990	12..... 3950	3..... 3780	24..... 3580
22..... 4960	13..... 3910	4..... 3700	25..... 3620
23..... 4750	14..... 3740	5..... 3720	26..... 3680
24..... 4510	15..... 3660	6..... 3720	27..... 3640
25..... 4370	16..... 3580	7..... 3680	28..... 3560
26..... 4260	17..... 3740	8..... 3660	29..... 3560
27..... 4280	18..... 3700	9..... 3760	30..... 3540
28..... 4220	19..... 3740		

Month	Total	Mean	Max	Min	Ac/ft
July	165420	5336	6930	4040	328100
August	117280	3783	4170	3480	232600
September	110710	3690	3890	3540	219600
WTR YR 1980	7573050	20690	225000	3330	15020000

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3480	4280	7260	13000	20800	20700	26300	13200	7590	3970	2940	2740
2	3360	4700	38500	12100	18600	19800	24500	12600	7330	3930	2930	2750
3	3460	4600	65000	11400	17100	19100	22800	11400	6830	3890	3140	3010
4	3420	4490	57900	10900	16000	21000	21000	10600	6500	3800	3220	3070
5	3480	4330	36500	10400	15200	21100	19600	10100	6350	3710	3120	3010
6	3520	4220	25100	10000	14800	19800	18900	10000	6380	3770	3110	2920
7	3560	4820	18800	10000	14000	18900	18200	9400	6510	3830	3070	2630
8	3540	8790	15500	9760	13400	17900	16900	9100	6930	3740	3030	2510
9	3520	8260	13300	9440	12900	17100	16000	8900	7510	3690	2970	2460
10	3540	6810	12100	8990	12700	16300	15500	8800	7090	3610	2910	2450
11	3740	6070	11100	8590	13000	15700	15000	8550	6480	3540	2870	2460
12	4110	5570	10300	8260	13600	15400	14800	8400	6180	3490	2860	2590
13	4630	5310	9870	8030	18200	15500	14000	8250	6180	3370	2890	2490
14	5490	5090	9300	7840	64500	15200	13500	8200	6030	3250	2890	2410
15	5570	4990	8760	7590	53500	15400	13200	8300	5750	3220	2860	2410
16	4840	4890	8930	7500	41900	17700	12900	8500	5520	3190	2810	2360
17	4510	4770	10000	7530	56300	17200	12700	8800	5390	3170	2820	2330
18	4370	4790	9830	7590	43900	16700	12900	11000	5240	3090	2850	2360
19	4330	4720	9370	7810	42000	16300	13800	12000	5040	3010	2830	2300
20	4260	4700	8990	8490	42800	16500	15400	10300	5100	2990	2770	2300
21	4150	4840	9830	9100	36000	16300	14600	9510	5090	3090	2830	2370
22	4170	8260	15900	17700	30700	18400	14000	9050	4850	3050	2810	2400
23	4170	8560	15900	39500	27400	18700	14400	8510	4730	3000	2850	2530
24	4240	7410	13300	32000	27000	17600	15100	8290	4570	2970	2760	2590
25	4330	6660	20400	28500	25000	20000	14800	9400	4350	2880	2810	2560
26	4490	6070	25700	29700	23900	33400	14100	10400	4410	2850	2810	2670
27	4240	5670	21100	32900	23200	33100	13200	9640	4230	2900	2780	3260
28	4240	5390	21300	32900	22000	29000	12200	9040	4120	2900	2810	4400
29	4240	5650	18000	39500	---	28300	12000	8470	4080	2930	2750	4130
30	4260	6780	15600	30200	---	28800	12900	8150	4070	2920	2700	3480
31	4220	---	14200	24300	---	26900	---	7920	---	2940	2730	---
TOTAL	127480	171490	577640	501520	760400	623800	475200	294780	170430	102690	89530	81950
MEAN	4112	5716	18630	16180	27160	20120	15840	9509	5681	3313	2888	2732
MAX	5570	8790	65000	39500	64500	33400	26300	13200	7590	3970	3220	4400
MIN	3360	4220	7260	7500	12700	15200	12000	7920	4070	2850	2700	2300
AC-FT	252900	340200	1146000	994800	1508000	1237000	942600	584700	338000	203700	177600	162500
CAL YR 1980 TOTAL	6919720	MEAN	18910	MAX	225000	MIN	3360	AC-FT	13730000			
WTR YR 1981 TOTAL	3976910	MEAN	10900	MAX	65000	MIN	2300	AC-FT	7888000			

KLAMATH RIVER BASIN

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 September 1981 (discontinued).

WATER TEMPERATURES: Water years 1966 to September 1981 (discontinued).

SEDIMENT RECORDS: Water years 1955-56, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURES: November 1965 to September 1981.

INSTRUMENTATION.--Temperature recorder from November 1965 to September 1981.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 27.0°C Sept. 12, 1979; minimum recorded, 2.5°C Feb. 2, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 25.5°C July 24-27, minimum recorded, 7.5°C Dec. 13-15, Jan. 29, Feb. 26-27.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
29...	1200	4240	212	8.2	13.5	765	.50	12.6	124	K4	K13
NOV											
26...	1355	5910	182	8.3	9.5	770	1.0	12.2	105	K4	K3
DEC											
22...	1350	16800	142	7.8	9.5	765	20	11.3	98	24	K17
JAN											
28...	1130	35100	133	--	8.0	750	55	11.4	97	63	66
FEB											
26...	1220	23700	139	7.9	8.0	760	22	11.4	96	K11	K5
MAR											
26...	1145	34800	130	7.4	9.0	765	54	11.0	95	69	45
APR											
30...	1245	12900	140	7.2	16.5	765	3.6	--	--	K3	K4
MAY											
21...	1130	9550	138	8.1	15.0	765	15	9.7	95	K6	K2
JUN											
23...	1115	4770	158	8.3	19.5	760	1.4	8.7	95	K1	K2
JUL											
28...	1215	2910	185	8.5	22.5	760	.00	8.2	95	K2	K3
AUG											
25...	1330	2730	185	8.5	20.5	760	1.9	9.2	102	K4	56
SEP											
29...	1445	3930	172	8.4	17.0	760	1.1	10.4	109	38	43

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT											
29...	79	0	17	8.8	11	23	.5	1.7	88	13	6.1
NOV											
26...	73	0	16	7.9	8.9	21	.5	1.2	78	5.3	5.1
DEC											
22...	56	0	12	6.2	5.1	16	.3	1.0	60	7.7	3.2
JAN											
28...	57	--	13	6.0	4.3	14	.2	.7	--	6.8	2.2
FEB											
26...	61	--	14	6.3	4.4	13	.2	.7	60	9.2	2.4
MAR											
26...	56	--	13	5.6	4.2	14	.2	.7	54	11	1.8
APR											
30...	65	--	15	6.8	5.4	15	.3	1.0	67	3.0	2.1
MAY											
21...	63	--	15	6.2	4.9	14	.3	.8	64	2.6	2.4
JUN											
23...	72	--	17	7.1	5.6	14	.3	.9	71	3.8	3.3
JUL											
28...	75	--	17	7.8	7.9	18	.4	1.4	78	<1.0	3.6
AUG											
25...	75	--	17	8.0	9.3	21	.5	1.7	82	<5.0	5.3
SEP											
29...	70	--	16	7.3	7.1	18	.4	1.5	74	5.0	4.6

See footnotes at end of table.

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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, 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)
OCT 29...	.1	21	125	132	.17	1430	--	--	.18	.18	.02
NOV 26...	.1	20	127	111	.17	2030	--	--	.23	.23	.00
DEC 22...	.1	17	89	90	.12	4040	--	--	.30	.39	.08
JAN 28...	.3	14	80	83	.11	7580	--	--	.18	--	.09
FEB 26...	.1	15	86	89	.12	5500	.12	.00	.12	.16	.00
MAR 26...	.1	14	94	81	.13	8830	--	--	.06	.04	.00
APR 30...	.0	15	--	91	.19	3170	--	--	.01	.02	.02
MAY 21...	.0	13	101	80	.14	2600	--	--	.01	.01	.04
JUN 23...	.1	13	101	95	.14	1300	--	--	.01	--	.00
JUL 28...	.2	13	110	100	.15	864	--	--	.10	.10	.11
AUG 25...	.1	18	117	104	.16	862	--	--	.01	.00	.03
SEP 29...	.1	18	113	106	.15	1200	--	--	<.10	.11	.08

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
OCT 29...	.00	.85	.32	.32	1.1	.10	.06	5.9	--	--
NOV 26...	.02	.72	.61	.63	.95	.08	.08	--	7.8	.2
DEC 22...	.01	--	.41	.42	--	.12	.10	4.9	--	--
JAN 28...	.01	.16	.26	.27	.43	.09	.03	4.4	--	--
FEB 26...	.03	.60	.65	.68	.72	.11	.03	--	2.1	--
MAR 26...	.01	.64	.24	.25	.70	.13	.03	3.7	--	--
APR 30...	.06	.29	.19	.25	.32	.05	.03	2.9	--	--
MAY 21...	.02	.22	.01	.03	.27	.03	.01	--	--	.2
JUN 23...	-	.53	--	.50	.54	.04	.03	1.7	--	--
JUL 28...	.10	.52	.50	.60	.73	.07	.06	2.4	--	--
AUG 25...	.04	.64	.51	.55	.68	.09	.07	--	2.2	.6
SEP 29...	.10	.31	.27	.37	--	.07	.04	3.5	--	--

See footnotes at end of table.

KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 26...	1355	2	3	0	20	0	<1	20	10	0
FEB 26...	1220	1	2	100	20	1	1	20	20	2
MAY 21...	1130	1	1	0	20	0	<1	10	0	0
AUG 25...	1330	3	3	100	20	0	<1	0	0	1

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 26...	<3	8	5	170	20	2	0	20	3	.0
FEB 26...	<3	10	2	3700	50	6	1	40	3	.1
MAY 21...	<3	5	2	370	20	0	2	10	<1	.1
AUG 25...	<3	6	2	140	<10	8	2	20	3	.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 RECOV- ERABLE (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 26...	.0	6	2	0	0	0	0	10	6
FEB 26...	.0	11	5	0	0	0	0	20	20
MAY 21...	.0	5	1	0	0	0	0	10	4
AUG 25...	.0	2	4	0	0	0	0	30	<3

DATE	TIME	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
FEB 26...	1220	1.1	.5	<1.6	.7	1.0	.9	.9	.9	.03	.11
SEP 29...	1445	--	--	<2.3	<.4	1.6	<.4	1.5	<.4	.11	.06

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

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE TIME	NOV 26,80 1355	MAR 26,81 1145	MAY 21,81 1130	JUN 23,81 1145
TOTAL CELLS/ML	580	480	280	130
DIVERSITY: DIVISION	0.8	0.0	0.3	0.0
..CLASS	0.8	0.0	0.3	0.0
...ORDER	1.2	2.2	1.9	2.2
...FAMILY	1.2	2.3	2.5	2.4
...GENUS	1.6	2.4	3.1	2.4

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
...ACHNANTHALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	70	15	56#	20	--	-
....COCCONEIS	13	2	14	3	14	5	13	10
....RHOICOSPHENIA	--	-	--	-	28	10	--	-
..BACILLARIALES								
...NITZSCHIAEAE								
...NITZSCHIA	26	4	130#	26	--	-	13	10
...EPISTEMIALES								
...EPISTEMIAEAE								
....EPISTEMIA	--	-	--	-	14	5	39#	30
...EUPODISCALES								
...COSCINODISCAEAE								
...CYCLOTELLA	--	-	130#	26	--	-	26#	20
..FRAGILARIALES								
...FRAGILARIAEAE								
....DIATOMA	26	4	28	6	28	10	--	-
....SYNEDRA	26	4	--	-	14	5	--	-
..NAVICULALES								
...CYMBELLACEAE								
...CYMBELLA	--	-	--	-	56#	20	26#	20
...GOMPHONEMACEAE								
...GOMPHONEMA	--	-	14	3	28	10	13	10
...NAVICULACEAE								
...NAVICULA	52	9	98#	21	28	10	--	-
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...DICTYOSPHAERIAEAE								
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
...SCENEDESMUS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
...CHLAMYDOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	410#	71	--	-	--	-	--	-
....ANACYSTIS	26	4	--	-	--	-	--	-
...NOSTOCALES								
...NOSTOCAEAE								
....ANABAENA	--	-	--	-	--	-	--	-
...OSCILLATORIALES								
...OSCILLATORIAEAE								
...OSCILLATORIA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
..EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	14	5	--	-

See footnotes at end of table.

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE TIME	JUL 28,81 1215	AUG 25,81 1330	SEP 29,81 1445
TOTAL CELLS/ML	850	35000	410
DIVERSITY: DIVISION	0.8	0.4	0.0
..CLASS	0.8	0.4	0.0
...ORDER	2.0	0.7	1.5
....FAMILY	2.4	0.7	1.9
.....GENUS	2.6	0.7	1.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
..BACILLARIOPHYCEAE						
...ACHNANTHALES						
....ACHNANTHACEAE						
.....ACHNANTHES	--	-	--	-	--	-
.....COCONEIS	14	2	*	0	68#	17
.....RHOICOSPHENIA	--	-	--	-	--	-
..BACILLARIALES						
...NITZSCHIAEAE						
....NITZSCHIA	--	-	650	2	--	-
...EPITHEMIALES						
....EPITHEMIAEAE						
.....EPITHEMIA	200#	24	*	0	--	-
...EUPODISCALES						
....COSCONODISCACEAE						
.....CYCLOTELLA	14	2	*	0	150#	37
..FRAGILARIALES						
...FRAGILARIAEAE						
....DIATOMA	43	5	--	-	--	-
....SYNEDRA	290#	34	560	2	--	-
..NAVICULALES						
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	55	13
...GOMPHONEMACEAE						
....GOMPHONEMA	43	5	*	0	--	-
...NAVICULACEAE						
....NAVICULA	29	3	*	0	140#	33
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....DICTYOSPHAERIAEAE						
.....DICTYOSPHAERIUM	130#	15	--	-	--	-
....OOCYSTACEAE						
.....ANKISTRODESMUS	--	-	*	0	--	-
.....KIRCHNERIELLA	--	-	*	0	--	-
.....SELENASTRUM	--	-	*	0	--	-
...SCENEDESMACEAE						
....SCENEDESMUS	86	10	220	1	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	200	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
.....AGMENELLUM	--	-	--	-	--	-
.....ANACYSTIS	--	-	32000#	90	--	-
...NOSTOCALES						
....NOSTOCACEAE						
.....ANABAENA	--	-	*	0	--	-
...OSCILLATORIALES						
....OSCILLATORIAEAE						
.....OSCILLATORIA	--	-	1300	4	--	-
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%

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	---	---	147	149	149	139	134	149	166	181	---
2	188	194	106	147	153	153	140	135	150	171	180	177
3	187	194	92	149	153	155	143	134	152	170	176	180
4	187	194	107	149	155	145	146	137	151	170	180	180
5	189	189	127	149	155	150	148	139	150	172	178	184
6	191	195	132	155	153	147	147	141	153	174	182	180
7	181	192	140	162	158	147	147	146	---	175	186	180
8	185	179	150	158	---	158	149	143	150	173	183	182
9	187	166	153	163	164	156	145	---	150	174	181	182
10	188	180	153	160	164	157	146	149	150	172	184	182
11	---	177	158	160	161	151	148	152	150	170	183	180
12	190	181	158	164	157	159	147	143	149	171	176	175
13	184	179	161	165	145	159	145	147	---	172	179	---
14	179	182	161	166	105	157	144	146	155	167	172	---
15	185	196	161	167	118	---	144	146	156	173	179	---
16	187	---	165	166	118	142	145	151	158	---	---	---
17	194	192	---	166	109	152	144	145	161	179	179	---
18	199	194	154	167	---	150	142	138	161	---	182	---
19	199	193	155	167	121	156	---	136	161	178	178	178
20	202	186	153	167	122	156	134	134	---	182	180	182
21	200	197	153	169	128	154	139	143	159	184	180	185
22	202	183	139	129	128	146	140	146	163	183	178	---
23	199	166	136	131	128	149	137	151	160	182	176	---
24	199	171	143	132	143	149	131	151	160	184	181	---
25	---	168	131	138	144	155	---	148	160	181	181	---
26	197	175	---	136	147	115	129	142	164	184	179	180
27	203	---	121	---	149	130	136	137	168	178	181	186
28	204	---	125	128	149	---	140	140	167	183	181	188
29	200	---	132	126	---	131	143	146	164	185	182	178
30	202	180	139	136	---	131	141	145	168	182	183	178
31	---	---	144	147	---	132	---	145	---	179	180	---
MONTH	193	184	141	152	141	148	142	143	157	176	180	---
YEAR	MAX	204	MIN	92	MEAN	161						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	17.0	11.5	11.5	9.5	9.0	9.5	9.5	8.5	8.5	8.5	8.0
2	18.5	17.5	12.0	11.5	9.0	8.0	9.5	9.5	8.5	8.5	8.5	8.0
3	18.5	18.0	12.0	11.5	8.5	8.0	9.5	9.5	8.5	8.5	9.0	8.5
4	18.5	18.0	12.5	12.0	8.5	8.0	9.5	9.0	8.5	8.5	9.0	8.5
5	18.0	17.5	12.5	12.0	8.5	8.0	9.0	9.0	9.0	8.5	8.5	8.0
6	17.5	17.0	13.0	12.5	8.5	8.5	9.0	8.5	9.0	8.5	8.5	8.0
7	17.0	16.5	13.5	12.5	8.5	8.5	9.0	8.5	8.5	8.5	8.5	8.0
8	17.0	16.5	13.5	12.5	8.5	8.5	9.0	8.5	8.5	8.5	8.5	8.0
9	17.0	16.0	13.0	12.5	8.5	8.5	9.0	9.0	9.0	8.5	9.0	8.5
10	17.0	16.0	13.0	12.0	8.5	8.5	9.0	9.0	9.0	8.5	9.0	9.0
11	16.5	15.5	12.0	11.0	8.5	8.0	9.0	9.0	9.0	8.5	9.5	9.0
12	16.0	15.0	11.0	10.0	8.5	8.0	9.0	8.5	9.0	8.5	10.0	9.5
13	15.5	15.0	10.5	9.5	8.0	7.5	9.0	9.0	9.5	8.5	10.0	9.5
14	15.0	14.0	10.0	9.5	8.0	7.5	9.0	9.0	8.5	8.0	9.5	9.5
15	14.5	13.5	10.0	9.5	8.0	7.5	9.0	9.0	8.0	8.0	9.5	9.5
16	14.0	13.0	9.5	9.0	8.5	8.0	9.5	9.0	8.5	8.0	9.5	9.0
17	13.5	13.0	9.5	9.0	9.0	8.5	10.0	9.5	8.5	8.0	9.5	9.0
18	13.5	12.5	9.5	9.5	9.0	9.0	10.5	10.0	8.5	8.0	9.0	9.0
19	13.0	12.0	9.5	9.5	9.0	9.0	11.0	10.5	9.0	8.5	9.0	9.0
20	13.0	12.5	9.5	9.0	9.5	9.0	11.0	11.0	9.0	8.5	9.0	8.5
21	13.0	12.0	9.5	9.5	10.0	9.5	11.5	11.0	9.0	8.5	9.0	9.0
22	13.0	12.5	10.0	9.5	9.5	9.0	11.5	10.0	9.0	8.5	9.0	9.0
23	13.0	12.0	10.5	10.0	9.5	9.0	10.0	9.0	8.5	8.5	9.0	9.0
24	12.5	12.0	10.5	10.0	9.5	9.5	9.5	9.5	8.5	8.0	9.5	9.0
25	13.0	12.5	10.0	9.5	9.5	8.5	9.5	9.5	8.5	8.0	9.5	9.0
26	12.5	11.5	9.5	9.0	9.0	8.5	9.5	9.0	8.0	7.5	9.5	8.5
27	12.5	11.5	9.5	9.0	9.0	9.0	9.5	8.5	8.0	7.5	8.5	8.5
28	12.5	12.0	10.0	9.5	9.5	9.0	8.5	8.0	8.0	8.0	9.0	9.0
29	12.0	12.0	10.0	9.5	9.5	9.0	8.0	7.5	---	---	9.5	9.5
30	12.0	11.5	10.0	9.5	9.5	9.0	8.5	8.0	---	---	9.5	9.5
31	12.0	11.5	---	---	9.5	9.5	8.5	8.0	---	---	9.5	9.5
MONTH	18.5	11.5	13.5	9.0	10.0	7.5	11.5	7.5	9.5	7.5	10.0	8.0

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
OCT 29...	1115	13.5	4240	3	34	--	--	--	--	--
NOV 26...	1245	9.5	5960	17	274	69	--	--	--	--
DEC 22...	1235	9.5	16800	98	4450	32	--	--	--	--
JAN 28...	1050	8.0	34900	286	27000	58	67	87	98	100
FEB 26...	1115	8.0	23800	97	6230	37	--	--	--	--
MAR 26...	1145	9.0	34800	257	24100	51	63	82	95	100
APR 30...	1245	16.5	12900	33	1150	44	--	--	--	--
MAY 21...	1030	15.0	9580	26	673	28	--	--	--	--
JUN 23...	1045	19.5	4790	6	78	37	--	--	--	--

11532500 SMITH RIVER NEAR CRESCENT CITY, CA
(National stream-quality accounting network station)

LOCATION.--Lat 41°47'22", long 124°03'14", in SW¼SW¼ sec.10, T.16 N., R.1 E. (unsurveyed), Del Norte County, Hydrologic Unit 18010101, Six Rivers National Forest, on left bank 0.5 mi (0.8 km) downstream from South Fork, and 8 mi (13 km) east of Crescent City.

DRAINAGE AREA.--609 mi² (1,577 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 89.61 ft (27.313 m) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--50 years, 3,788 ft³/s (107.3 m³/s), 2,744,000 acre-ft/yr (3.38 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228,000 ft³/s (6,460 m³/s) Dec. 22, 1964, gage height, 48.5 ft (14.78 m), from floodmarks, from rating curve extended above 110,000 ft³/s (3,120 m³/s) on basis of slope-area measurement at gage height 39.51 ft (12.043 m); minimum daily, 160 ft³/s (4.53 m³/s) Oct. 24, 25, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 74,800 ft³/s (2,120 m³/s) Dec. 2 (1730 hrs), gage height, 29.70 ft (9.053 m), no other peak above base of 36,000 ft³/s (1,020 m³/s); minimum daily 203 ft³/s (5.75 m³/s) Oct. 9-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	224	386	3340	3390	4180	3830	6200	1420	1200	706	375	269
2	220	671	54600	2970	3640	3470	6020	1350	1140	688	384	268
3	217	486	27700	2770	3250	3260	5210	1300	1080	667	388	266
4	211	397	20600	2470	2940	4610	4500	1270	1030	650	383	262
5	209	351	11500	2230	2900	4170	4040	1220	995	642	380	260
6	208	366	8990	2060	2770	3680	3670	1190	978	634	370	254
7	207	5600	6440	1930	2550	3410	3310	1140	1040	643	358	249
8	207	4720	4930	1830	2360	3100	3030	1130	2120	613	346	246
9	203	3540	4000	1780	2230	2840	2990	1130	2230	592	335	243
10	203	2490	3420	1650	2080	2610	2750	1060	1700	583	324	242
11	225	1540	3030	1560	2090	2450	2840	1020	1460	573	320	242
12	553	1130	2760	1480	2070	2290	4240	991	1370	561	317	239
13	635	923	2520	1420	5680	2180	3790	965	1510	551	316	234
14	1040	834	2280	1360	18700	2080	3350	951	1700	536	316	233
15	705	754	2220	1320	9250	2620	3090	1020	1530	523	316	230
16	431	677	2420	1280	13800	4300	2800	1020	1380	511	310	230
17	346	625	2210	1310	13100	3650	2600	1040	1280	503	303	230
18	310	583	2000	1220	8420	3140	2440	3030	1190	497	300	235
19	292	553	1830	1310	11300	2880	2550	2460	1130	488	300	259
20	279	526	1720	1330	10300	2850	2320	1960	1070	473	309	256
21	272	802	2440	1630	7410	2910	2150	1650	1010	460	309	247
22	263	6270	6770	12200	5870	4310	2060	1480	960	446	302	245
23	258	3280	5500	10800	5020	3920	1980	1360	928	434	296	243
24	279	2710	5500	6770	5650	3370	1920	1380	894	424	294	239
25	334	1940	19200	5000	5050	6540	1820	2590	859	416	297	239
26	305	1520	9680	4790	4900	12300	1790	2440	828	412	295	302
27	342	1250	9530	9430	4710	9230	1670	1960	793	400	291	1290
28	335	1090	7880	10100	4290	6610	1590	1680	765	394	283	1010
29	305	1910	5790	8300	---	6380	1550	1500	741	387	275	594
30	286	3480	4660	6210	---	6120	1500	1370	723	383	275	431
31	275	---	3930	4960	---	5830	---	1280	---	379	274	---
TOTAL	10179	51404	249390	116860	166510	130940	89770	45357	35634	16169	9941	9787
MEAN	328	1713	8045	3770	5947	4224	2992	1463	1188	522	321	326
MAX	1040	6270	54600	12200	18700	12300	6200	3030	2230	706	388	1290
MIN	203	351	1720	1220	2070	2080	1500	951	723	379	274	230
AC-FT	20190	102000	494700	231800	330300	259700	178100	89970	70680	32070	19720	19410
CAL YR 1980 TOTAL		1270904		MEAN 3472	MAX 56800	MIN 203	AC-FT 2521000					
WTR YR 1981 TOTAL		931941		MEAN 2553	MAX 54600	MIN 203	AC-FT 1849000					

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 to current year.

SPECIFIC CONDUCTANCE: Water years 1979-81 (discontinued).

WATER TEMPERATURES: Water years 1966-81 (discontinued).

SEDIMENT RECORDS: Water years 1955-56, November 1977 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1978 to September 1981.

WATER TEMPERATURES: October 1965 to September 1981.

SEDIMENT RECORDS: November 1977 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 154 micromhos Sept. 24-26, 1981; 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, 154 micromhos Sept. 24-26; minimum recorded, 73 micromhos Dec. 2.

WATER TEMPERATURES: Maximum recorded, 22.5°C July 2, 27, Aug. 9-11; minimum recorded, 5.0°C Dec. 13-14.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 412 mg/L Dec. 2; minimum daily mean, 1 mg/L many days each month.

SEDIMENT DISCHARGE: Maximum daily, 67,600 tons (61,300 metric tons) Dec. 2; minimum daily, 0.74 ton (0.67 metric ton) Aug. 29.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 25...	1300	1920	116	7.6	8.0	770	.50	12.2	102	K4	K6
JAN 27...	1130	9720	90	7.1	9.0	745	3.0	12.1	106	33	28
MAR 25...	1430	7960	93	7.9	9.5	755	5.6	12.2	107	14	K12
MAY 20...	1340	1930	107	8.0	12.0	755	.60	10.9	105	K4	--
JUL 29...	1230	387	138	8.2	21.5	755	.00	9.0	101	K2	K1
SEP 30...	1450	419	133	8.3	15.0	760	.40	10.5	104	K8	25

DATE	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 25...	57	3	4.6	11	1.8	6	.1	.2	54	2.6
JAN 27...	47	--	4.7	8.6	2.9	12	.2	.3	42	1.8
MAR 25...	43	--	4.2	8.0	1.9	9	.1	.3	43	.4
MAY 20...	53	--	4.9	10	2.2	8	.1	.3	51	.9
JUL 29...	70	--	8.1	12	2.5	7	.2	.5	67	<1.0
SEP 30...	63	--	6.9	11	2.3	7	.2	.3	63	5.0

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
NOV 25...	2.7	.1	13	76	69	.10	394	.00	.00	.00
JAN 27...	1.9	.1	13	54	60	.07	1420	.14	.13	.09
MAR 25...	1.4	.0	13	70	57	.10	1500	.00	.00	.00
MAY 20...	1.6	.0	14	77	62	.10	401	.00	.00	.03
JUL 29...	12	.2	14	77	--	.10	80.5	.12	.10	.13
SEP 30...	2.8	.1	13	77	80	.10	87.1	<.10	<.10	<.07

See footnotes at end of table.

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
NOV 25...	.02	.27	.23	.25	.27	.02	.03	--	1.5	.2
JAN 27...	.02	.26	.23	.25	.49	.02	.06	--	2.0	.4
MAR 25...	.02	.46	.25	.27	.46	.03	.01	1.1	--	--
MAY 20...	.01	.78	.17	.18	.81	.01	.01	--	5.6	.2
JUL 29...	.09	.31	.32	.41	.56	.03	.03	.5	--	--
SEP 30...	<.07	--	--	.23	--	<.01	<.01	--	2.3	.1

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 25...	1300	0	1	100	20	0	<1	20	30	0
JAN 27...	1130	0	1	0	20	1	<1	10	0	2
MAY 20...	1340	1	0	0	10	0	<1	10	0	1
SEP 30...	1450	0	0	200	13	1	<1	0	0	13

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 PR)	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 25...	<3	7	3	90	20	3	0	0	<1	.0
JAN 27...	<3	7	1	120	40	8	2	10	<1	.2
MAY 20...	<3	10	0	40	<10	3	1	10	<1	.1
SEP 30...	<3	5	1	100	<10	0	4	0	<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 25...	.0	12	8	0	0	0	0	20	10
JAN 27...	.0	21	6	0	0	0	0	20	20
MAY 20...	.0	8	5	0	0	0	0	0	<3
SEP 30...	.0	16	6	0	0	0	0	10	<3

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

SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PHYTOPLANKTON

DATE TIME	NOV 25,80 1300	MAR 25,81 1430	MAY 20,81 1340	JUL 29,81 1230	SEP 30,81 1450
TOTAL CELLS/ML	39	450	83	56	670
DIVERSITY: DIVISION	0.9	0.5	0.7	1.5	1.4
..CLASS	0.9	0.5	0.7	1.5	1.4
...ORDER	0.9	1.3	2.3	1.5	1.7
....FAMILY	0.9	1.3	2.3	1.5	1.7
.....GENUS	0.9	1.3	2.3	2.0	1.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)										
..BACILLARIOPHYCEAE										
...ACHNANTHALES										
....ACHNANTHACEAE										
.....ACHNANTHES	--	-	--	-	--	-	14#	25	--	-
....COCCONEIS	--	-	--	-	--	-	14#	25	27	4
..BACILLARIALES										
...NITZSCHIA										
....NITZSCHIA	--	-	26	6	14#	17	--	-	--	-
...EPITHEMIALES										
....EPITHEMIACEAE										
.....EPITHEMIA	--	-	--	-	14#	17	--	-	--	-
..FRAGILARIALES										
...FRAGILARIACEAE										
....FRAGILARIA	--	-	--	-	--	-	--	-	41	6
....SYNEDRA	--	-	--	-	28#	33	--	-	--	-
..NAVICULALES										
...GOMPHONEMACEAE										
....GOMPHONEMA	--	-	--	-	14#	17	--	-	--	-
...NAVICULACEAE										
....NAVICULA	13#	33	26	6	--	-	--	-	55	8
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....SCENEDESMACEAE										
.....SCENEDESMUS	--	-	--	-	--	-	--	-	160#	24
...VOLVOCALES										
....CHLAMYDOMONADACEAE										
.....CHLAMYDOMONAS	--	-	--	-	14#	17	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
..CRYPTOPHYCEAE										
...CRYPTOMONADALES										
....CRYPTOCHRYSIDACEAE										
.....CHROOMONAS	--	-	--	-	--	-	14#	25	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROOCOCCALES										
....CHROOCOCCACEAE										
.....ANACYSTIS	26#	67	--	-	--	-	14#	25	--	-
...NOSTOCALES										
....NOSTOCACEAE										
.....ANABAENA	--	-	78#	17	--	-	--	-	--	-
...OSCILLATORIALES										
....OSCILLATORIACEAE										
.....OSCILLATORIA	--	-	320#	71	--	-	--	-	380#	57

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

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

SMITH RIVER BASIN

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11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	---	---	---	97	97	96	114	118	131	---	148
2	147	133	73	---	97	97	98	114	117	131	144	150
3	149	134	80	---	98	92	102	113	---	132	142	150
4	150	136	81	---	98	91	98	108	---	133	143	150
5	147	138	87	---	99	94	104	102	115	132	143	150
6	150	139	---	105	100	96	102	119	115	130	143	146
7	148	125	---	106	---	97	102	---	113	132	143	149
8	149	111	93	105	102	---	102	116	114	132	142	150
9	150	116	98	104	105	---	101	118	---	---	143	150
10	---	117	100	104	101	---	108	---	118	---	141	150
11	146	122	101	106	100	---	101	---	120	---	---	151
12	137	124	102	107	---	---	102	118	113	---	---	151
13	135	125	---	108	---	---	104	102	121	---	---	---
14	133	---	---	---	---	---	105	105	121	113	---	---
15	128	---	---	---	---	---	105	108	---	115	---	---
16	132	128	---	110	86	104	105	120	118	131	145	---
17	---	---	106	110	87	104	105	113	117	---	145	---
18	137	---	107	---	84	105	106	105	116	131	150	---
19	140	129	107	---	88	105	99	105	117	131	150	---
20	142	128	---	108	83	105	102	106	117	132	150	---
21	142	125	---	108	87	---	106	---	127	134	150	153
22	145	105	---	92	92	103	109	109	126	137	---	152
23	146	108	---	95	95	103	---	112	---	139	---	152
24	---	---	---	---	94	103	---	111	126	139	---	154
25	---	---	---	---	93	92	97	112	127	140	148	154
26	141	117	---	---	93	87	98	111	129	---	148	154
27	142	117	---	---	93	88	105	112	129	---	---	128
28	141	120	---	---	95	89	110	---	130	143	---	125
29	141	121	---	---	---	90	117	---	132	---	---	135
30	142	---	---	---	---	92	113	---	131	---	---	136
31	---	---	---	97	---	95	---	116	---	---	---	---
MONTH	142	---	---	---	94	98	104	---	121	---	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	16.5	13.0	11.5	8.0	7.5	9.0	8.5	7.5	6.5	9.0	8.0
2	18.5	17.5	12.0	11.5	10.0	8.5	8.5	8.0	7.5	6.5	9.0	7.5
3	18.0	17.5	---	---	10.5	9.5	9.0	8.5	7.5	6.5	9.0	8.5
4	---	---	---	---	9.5	8.0	9.0	8.0	7.0	6.5	9.0	8.0
5	---	---	---	---	8.0	8.0	8.0	7.5	8.0	7.0	8.0	6.5
6	---	---	---	---	8.0	7.5	7.5	7.5	8.0	7.0	8.0	6.5
7	---	---	---	---	7.5	6.5	8.0	7.5	7.0	6.5	8.5	8.0
8	---	---	---	---	6.5	6.0	8.5	8.0	7.0	6.0	9.0	7.5
9	---	---	---	---	6.5	6.0	9.0	8.5	8.0	7.5	9.0	7.5
10	---	---	---	---	6.5	6.0	9.0	8.5	7.5	7.0	10.0	8.5
11	---	---	---	---	6.5	6.0	8.5	7.5	9.0	7.5	10.0	8.5
12	---	---	---	---	6.0	5.5	7.5	7.0	9.5	8.5	10.0	9.0
13	---	---	---	---	5.5	5.0	7.5	7.0	9.5	9.0	10.0	9.5
14	---	---	---	---	5.5	5.0	7.5	7.0	9.5	9.0	9.5	9.0
15	---	---	---	---	7.0	6.0	7.5	7.0	9.5	9.0	9.5	9.0
16	---	---	---	---	7.5	7.0	8.5	7.5	10.0	9.5	9.0	8.0
17	12.0	11.5	---	---	7.5	7.0	9.0	8.0	9.5	9.0	8.5	7.0
18	12.0	11.5	---	---	7.5	7.0	10.0	9.0	10.5	9.5	9.0	8.0
19	12.0	11.5	---	---	8.5	7.5	10.0	10.0	10.5	8.5	9.5	8.5
20	12.0	11.5	---	---	9.0	8.5	10.0	9.5	8.5	7.5	9.0	8.0
21	12.5	12.0	---	---	10.0	9.0	11.0	10.0	9.0	7.5	9.5	8.5
22	12.5	12.0	---	---	10.0	9.5	11.0	10.0	9.5	8.0	9.5	8.5
23	12.0	11.5	---	---	9.5	8.0	10.0	9.5	9.0	8.0	9.0	8.0
24	12.0	12.0	---	---	10.0	8.0	9.5	8.5	8.5	7.5	9.5	8.0
25	12.5	12.0	8.0	7.5	10.5	10.0	8.5	8.0	8.0	7.0	9.5	8.5
26	12.5	12.0	8.0	7.5	10.5	10.0	9.5	8.0	8.0	7.0	8.5	7.5
27	12.5	12.0	8.0	7.5	10.0	10.0	9.5	9.0	8.5	7.5	9.5	7.5
28	12.0	11.5	8.5	8.0	10.0	9.0	9.0	8.5	8.5	7.5	10.0	7.5
29	11.5	11.0	9.5	8.5	9.5	9.0	8.5	8.0	---	---	9.5	8.0
30	11.5	11.0	9.0	8.0	9.5	9.0	8.0	7.5	---	---	8.5	7.5
31	11.5	11.0	---	---	9.5	9.0	7.5	7.0	---	---	8.5	7.0
MONTH	---	---	---	---	10.5	5.0	11.0	7.0	10.5	6.0	10.0	6.5

SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	6.5	---	---	16.5	15.5	20.0	18.5	20.5	18.5	20.0	19.5
2	9.0	7.0	---	---	17.0	15.0	20.5	19.0	18.5	17.5	20.0	19.0
3	9.5	8.0	---	---	17.5	15.5	21.0	19.5	18.5	18.0	20.0	19.0
4	10.0	7.5	---	---	18.5	16.0	21.0	19.5	18.5	18.5	19.5	19.0
5	9.5	8.0	---	---	18.0	17.0	20.5	19.5	20.5	18.5	19.5	18.5
6	9.5	7.5	---	---	17.5	16.5	20.5	17.5	21.0	20.0	20.0	18.5
7	9.5	7.5	---	---	17.5	15.5	18.0	16.0	21.5	20.5	19.5	19.0
8	9.5	8.0	---	---	15.5	14.5	18.5	17.0	22.0	21.0	19.5	18.5
9	10.0	8.5	---	---	14.5	13.5	18.5	17.5	22.5	21.5	19.5	18.5
10	---	---	---	---	15.0	13.0	18.5	17.0	22.5	22.0	19.5	18.5
11	---	---	---	---	15.5	13.5	19.0	17.5	22.5	21.5	20.0	18.5
12	---	---	---	---	15.0	14.0	19.0	17.5	22.0	20.5	20.0	19.0
13	---	---	---	---	14.0	13.0	19.5	17.5	20.5	20.0	19.5	19.0
14	---	---	---	---	15.5	12.5	20.0	18.5	20.0	20.0	19.5	18.5
15	---	---	---	---	16.5	14.0	20.0	19.0	20.5	20.0	19.0	18.5
16	---	---	---	---	16.5	15.0	20.0	19.0	20.5	19.5	19.0	18.5
17	---	---	---	---	16.5	14.0	19.5	18.5	20.5	20.0	19.0	18.0
18	---	---	---	---	16.5	15.0	20.0	19.0	20.0	19.5	19.0	18.0
19	---	---	---	---	18.0	15.0	21.0	19.5	19.5	19.0	19.0	18.5
20	---	---	13.5	13.5	18.5	17.0	21.5	20.0	19.5	18.5	18.5	17.5
21	---	---	13.5	12.5	18.5	16.5	21.5	20.5	19.5	18.5	17.5	16.5
22	---	---	13.5	12.0	18.5	16.5	21.5	20.5	20.0	19.0	17.0	16.0
23	---	---	15.0	13.0	19.0	16.5	21.5	20.5	20.0	19.0	16.5	15.5
24	---	---	15.5	14.5	19.5	17.0	21.5	20.5	19.0	18.5	16.0	15.0
25	---	---	15.0	14.0	19.5	18.0	22.0	20.5	19.0	17.5	15.5	14.5
26	---	---	16.0	13.0	20.0	18.0	22.5	21.0	19.0	18.0	15.5	15.0
27	---	---	16.5	14.5	19.5	18.0	22.5	21.5	19.5	18.5	16.0	15.5
28	---	---	17.0	14.5	20.0	17.5	21.5	20.5	19.5	19.0	15.5	15.0
29	---	---	16.5	15.5	20.0	18.5	21.5	20.5	19.0	18.5	15.0	14.0
30	---	---	16.5	14.5	20.0	18.5	21.0	20.0	19.5	19.0	15.0	14.0
31	---	---	17.0	15.0	---	---	21.0	20.0	20.0	19.0	---	---
MONTH	---	---	---	---	20.0	12.5	22.5	16.0	22.5	17.5	20.0	14.0
YEAR	22.5	5.0										

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	224	1	.60	386	3	3.1	3340	3	27
2	220	1	.59	671	4	7.2	54600	412	67600
3	217	2	1.2	486	2	2.6	27700	237	17800
4	211	2	1.1	397	1	1.1	20600	125	6950
5	209	2	1.1	351	1	.95	11500	34	1060
6	208	2	1.1	366	1	.99	8990	18	437
7	207	2	1.1	5600	48	968	6440	10	174
8	207	2	1.1	4720	11	140	4930	6	80
9	203	2	1.1	3540	3	29	4000	4	43
10	203	2	1.1	2490	1	6.7	3420	3	28
11	225	3	1.8	1540	1	4.2	3030	3	25
12	553	7	10	1130	1	3.1	2760	2	15
13	635	4	6.9	923	1	2.5	2520	2	14
14	1040	8	22	834	1	2.3	2280	2	12
15	705	3	5.7	754	1	2.0	2220	2	12
16	431	1	1.2	677	1	1.8	2420	2	13
17	346	1	.93	625	1	1.7	2210	2	12
18	310	1	.84	583	1	1.6	2000	1	5.4
19	292	1	.79	553	1	1.5	1830	1	4.9
20	279	1	.75	526	1	1.4	1720	1	4.6
21	272	1	.73	802	4	25	2440	5	33
22	263	1	.71	6270	34	651	6770	15	274
23	258	1	.70	3280	4	35	5500	7	104
24	279	1	.75	2710	2	15	5500	11	243
25	334	2	1.8	1940	2	10	19200	119	7050
26	305	1	.82	1520	1	4.1	9680	25	653
27	342	1	.92	1250	1	3.4	9530	18	468
28	335	1	.90	1090	1	2.9	7880	12	255
29	305	1	.82	1910	2	10	5790	9	141
30	286	1	.77	3480	2	19	4660	8	101
31	275	1	.74	---	---	---	3930	7	74
TOTAL	10179	---	70.66	51404	---	1957.14	249390	---	103712.9

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	3390	6	55	4180	2	23	3830	2	21
2	2970	5	40	3640	1	9.8	3470	2	19
3	2770	4	30	3250	1	8.8	3260	2	18
4	2470	3	20	2940	1	7.9	4610	5	62
5	2230	3	18	2900	2	16	4170	3	34
6	2060	2	11	2770	2	15	3680	2	20
7	1930	2	10	2550	2	14	3410	2	18
8	1830	2	9.9	2360	2	13	3100	2	17
9	1780	2	9.6	2230	2	12	2840	2	15
10	1650	1	4.5	2080	1	5.6	2610	2	14
11	1560	1	4.2	2090	1	5.6	2450	2	13
12	1480	1	4.0	2070	1	5.6	2290	2	12
13	1420	1	3.8	5680	13	347	2180	1	5.9
14	1360	1	3.7	18700	56	2980	2080	1	5.6
15	1320	1	3.6	9250	23	574	2620	3	21
16	1280	1	3.5	13800	35	1720	4300	3	35
17	1310	1	3.5	13100	29	1030	3650	2	20
18	1220	1	3.3	8420	22	500	3140	2	17
19	1310	1	3.5	11300	26	921	2880	1	7.8
20	1330	1	3.6	10300	18	501	2850	1	7.7
21	1630	1	4.4	7410	8	160	2910	1	7.9
22	12200	51	2220	5870	5	79	4310	3	35
23	10800	22	642	5020	4	54	3920	2	21
24	6770	6	110	5650	5	76	3370	1	9.1
25	5000	4	54	5050	4	55	6540	14	312
26	4790	3	39	4900	3	40	12300	33	1110
27	9430	27	873	4710	2	25	9230	19	473
28	10100	23	627	4290	2	23	6610	9	161
29	8300	10	224	---	---	---	6380	4	69
30	6210	6	101	---	---	---	6120	3	50
31	4960	4	54	---	---	---	5830	2	31
TOTAL	116860	---	5193.1	166510	---	9221.3	130940	---	2662.0

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	6200	2	33	1420	1	3.8	1200	1	3.2
2	6020	2	33	1350	1	3.6	1140	1	3.1
3	5210	1	14	1300	1	3.5	1080	1	2.9
4	4500	1	12	1270	1	3.4	1030	1	2.8
5	4040	1	11	1220	1	3.3	995	1	2.7
6	3670	1	9.9	1190	1	3.2	978	1	2.6
7	3310	1	8.9	1140	1	3.1	1040	1	2.8
8	3030	2	16	1130	1	3.1	2120	1	5.7
9	2990	1	8.1	1130	1	3.1	2230	1	6.0
10	2750	1	7.4	1060	1	2.9	1700	1	4.6
11	2840	1	7.7	1020	1	2.8	1460	1	3.9
12	4240	2	23	991	1	2.7	1370	1	3.7
13	3790	1	10	965	1	2.6	1510	1	4.1
14	3350	1	9.0	951	1	2.6	1700	1	4.6
15	3090	1	8.3	1020	1	2.8	1530	1	4.1
16	2800	1	7.6	1020	1	2.8	1380	1	3.7
17	2600	1	7.0	1040	1	2.8	1280	1	3.5
18	2440	1	6.6	3030	5	41	1190	1	3.2
19	2550	2	14	2460	2	13	1130	1	3.1
20	2320	1	6.3	1960	2	11	1070	1	2.9
21	2150	1	5.8	1650	1	4.5	1010	1	2.7
22	2060	1	5.6	1480	1	4.0	960	1	2.6
23	1980	1	5.3	1360	1	3.7	928	1	2.5
24	1920	1	5.2	1380	1	3.7	894	1	2.4
25	1820	1	4.9	2590	2	14	859	1	2.3
26	1790	1	4.8	2440	1	6.6	828	1	2.2
27	1670	1	4.5	1960	1	5.3	793	1	2.1
28	1590	1	4.3	1680	1	4.5	765	1	2.1
29	1550	1	4.2	1500	1	4.1	741	1	2.0
30	1500	1	4.1	1370	1	3.7	723	1	2.0
31	---	---	---	1280	1	3.5	---	---	---
TOTAL	89770	---	301.5	45357	---	174.7	35634	---	96.1

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	706	1	1.9	375	1	1.0	269	2	1.5
2	688	1	1.9	384	2	2.1	268	3	2.2
3	667	1	1.8	388	2	2.1	266	7	5.0
4	650	1	1.8	383	2	2.1	262	4	2.8
5	642	1	1.7	380	2	2.1	260	3	2.1
6	634	1	1.7	370	2	2.0	254	3	2.1
7	643	1	1.7	358	2	1.9	249	3	2.0
8	613	1	1.7	346	2	1.9	246	3	2.0
9	592	1	1.6	335	2	1.8	243	3	2.0
10	583	1	1.6	324	2	1.7	242	3	2.0
11	573	1	1.5	320	1	.86	242	3	2.0
12	561	1	1.5	317	1	.86	239	3	1.9
13	551	1	1.5	316	2	1.7	234	3	1.9
14	536	1	1.4	316	1	.85	233	3	1.9
15	523	1	1.4	316	1	.85	230	3	1.9
16	511	1	1.4	310	2	1.7	230	3	1.9
17	503	1	1.4	303	1	.82	230	3	1.9
18	497	1	1.3	300	1	.81	235	3	1.9
19	488	1	1.3	300	2	1.6	259	4	2.8
20	473	1	1.3	309	2	1.7	256	3	2.1
21	460	1	1.2	309	2	1.7	247	3	2.0
22	446	1	1.2	302	1	.82	245	3	2.0
23	434	1	1.2	296	1	.80	243	3	2.0
24	424	1	1.1	294	1	.79	239	3	1.9
25	416	1	1.1	297	1	.80	239	3	1.9
26	412	1	1.1	295	1	.80	302	4	3.3
27	400	1	1.1	291	1	.79	1290	13	51
28	394	1	1.1	283	1	.76	1010	8	22
29	387	2	2.1	275	1	.74	594	3	4.8
30	383	1	1.0	275	2	1.5	431	2	2.3
31	379	1	1.0	274	2	1.5	---	---	---
TOTAL	16169	---	44.6	9941	---	41.45	9787	---	137.1
YEAR	931941		123612.6						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
DEC 02...	1225	11.0	70900	557	107000	14	20	29
MAR 26...	1405	8.5	13400	35	1270	--	--	--

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
DEC 02...	40	49	58	69	84	95	100
MAR 26...	--	--	32	37	51	83	100

11532620 MILL CREEK NEAR CRESCENT CITY, CA

LOCATION.--Lat 41°44'32", long 124°06'06", in NE¼NE¼ sec.31, T.16 N., R.1 E., Del Norte County, Hydrologic Unit 18010101, Redwood National Park, on left bank 200 ft (61 m) downstream from small left-bank tributary, 0.9 mi (1.4 km) downstream from confluence of West Branch and East Fork Mill Creeks, and 4.9 mi (7.9 km) east of Crescent City.

DRAINAGE AREA.--28.6 mi² (74.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1974 to September 1981 (discontinued).

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.--7 years, 118 ft³/s (3.342 m³/s), 85,490 acre-ft/yr (105 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,460 ft³/s (126 m³/s) Mar. 18, 1975, gage height, 8.51 ft (2.594 m); minimum daily, 2.5 ft³/s (0.071 m³/s) Oct. 2-5, 23, 24, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,570 ft³/s (72.8 m³/s) Dec. 2 (1600 hrs), gage height, 6.10 ft (1.859 m), no other peak above base of 2,000 ft³/s (57 m³/s); minimum daily, 2.7 ft³/s (0.076 m³/s), Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	17	141	135	201	148	311	38	44	23	9.8	6.9
2	3.7	19	1740	115	167	128	258	36	42	21	10	6.6
3	3.3	14	960	112	143	120	213	35	39	21	11	6.3
4	3.2	12	807	96	122	169	177	35	37	20	11	6.0
5	3.2	9.6	509	86	115	143	154	34	35	20	11	6.0
6	3.2	11	373	78	102	125	134	32	35	19	11	6.0
7	3.2	172	273	72	91	121	118	31	39	19	9.8	6.0
8	3.0	82	206	68	83	108	106	31	101	19	9.7	6.0
9	2.8	77	165	64	76	97	99	31	79	17	9.0	5.7
10	2.7	62	136	60	70	90	88	29	62	17	8.9	5.7
11	5.6	42	114	57	67	84	93	28	54	17	8.2	5.4
12	29	32	99	54	64	78	112	26	49	17	8.2	5.1
13	21	25	87	51	184	81	97	25	58	16	8.5	5.2
14	18	23	77	48	405	74	86	25	59	16	8.8	5.4
15	13	20	70	47	233	122	80	26	51	15	9.2	5.1
16	9.5	18	65	45	421	216	74	26	47	15	9.4	5.0
17	7.7	17	60	46	417	173	69	30	44	15	9.4	5.2
18	6.5	15	56	43	300	146	66	155	41	15	9.4	6.5
19	5.9	14	53	54	384	128	66	89	39	15	9.4	9.5
20	5.1	13	50	51	322	120	62	64	37	14	8.9	7.2
21	4.6	58	71	88	251	132	58	53	35	13	8.2	6.9
22	4.1	187	123	867	204	161	55	47	33	13	7.9	6.3
23	3.7	109	110	536	182	141	52	44	32	12	8.0	6.0
24	7.7	86	158	338	287	126	51	43	30	12	8.2	5.7
25	8.6	65	717	245	227	324	49	110	29	12	8.2	5.7
26	7.1	51	359	213	225	708	48	87	28	11	7.4	17
27	8.2	43	420	438	193	544	45	71	26	11	7.5	111
28	7.3	37	336	507	168	355	42	61	25	11	7.2	38
29	6.6	96	246	474	---	294	41	55	24	10	6.9	20
30	5.3	137	193	342	---	241	39	51	23	10	7.0	14
31	5.4	---	160	255	---	249	---	47	---	9.8	6.9	---
TOTAL	221.9	1563.6	8934	5685	5704	5746	2943	1495	1277	475.8	274.0	351.4
MEAN	7.16	52.1	288	183	204	185	98.1	48.2	42.6	15.3	8.84	11.7
MAX	29	187	1740	867	421	708	311	155	101	23	11	111
MIN	2.7	9.6	50	43	64	74	39	25	23	9.8	6.9	5.0
AC-FT	440	3100	17720	11280	11310	11400	5840	2970	2530	944	543	697
CAL YR 1980	TOTAL	41955.6	MEAN	115	MAX	2470	MIN	2.7	AC-FT	83220		
WTR YR 1981	TOTAL	34670.7	MEAN	95.0	MAX	1740	MIN	2.7	AC-FT	68770		

SMITH RIVER BASIN

11532620 MILL CREEK NEAR CRESCENT CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

CHEMICAL ANALYSES: Water years 1974-75, 1977.

WATER TEMPERATURES: Water years 1974-80.

SEDIMENT RECORDS: Water years 1974 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: February 1974 to September 1980.

INSTRUMENTATION.--Temperature recorder from February 1974 to September 1980.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 23.5°C July 25, 1974; minimum recorded, 3.0°C Dec. 31, 1978.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. SIEVE DIAM. % FINER THAN .062 MM
OCT						
28...	1550	11.0	7.2	1	.02	--
NOV						
26...	1015	8.0	50	1	.13	--
DEC						
24...	1200	9.5	109	7	2.1	92

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 virtually the same site.

DISCHARGE MEASUREMENTS MADE AT LOW-FLOW PARTIAL-RECORD STATIONS DURING WATER YEAR SEPTEMBER 1980 TO OCTOBER 1981

			Drainage area (mi ²)	Period of record	Measurements	
Station No.	Station name				Date	Discharge (ft ³ /s)
		Alameda Creek basin				
11177200	Vallecitos Creek at Sunol, CA	Lat 37°35'42", long 121°52'51", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank at culvert on Sunol Road, 700 ft (213 m) upstream from mouth, and 0.3 mi (0.5 km) east of Sunol.	7.48	1975-76b, 1977-81d	11-3-80 12-1-80 1-15-81 2-3-81 3-3-81 4-1-81 5-4-81 8-4-81 9-3-81	a0.02 a0.04 a0.14 0.27 0.43 0.31 22.0 36.0 18.2

a Base flow.

b Published as a miscellaneous measurement.

d Water-quality data for current year published in this report.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PAJARO RIVER BASIN
11153500 LLAGAS CREEK NEAR MORGAN HILL, CA

LOCATION.--Lat 37°06'52", long 121°41'22", in Las Uvas Grant, Santa Clara County, Hydrologic Unit 18060002, 500 ft (152 m) upstream from Llagas Avenue bridge, 0.3 mi (0.5 km) downstream from Chesbro Dam, 0.3 mi (0.5 km) upstream from small left bank tributary, and 2.3 mi (3.7 km) west of Morgan Hill.

DRAINAGE AREA.--19.6 mi² (50.8 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSIS: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
JAN									
29...A	1500	.20	--	--	11.0	--	--	--	4900
30...	1410	.10	541	7.4	10.5	760	33	6.8	--
FEB									
05...A	1045	.00	--	--	9.0	--	--	--	1000
MAR									
06...	1140	.50	317	7.8	12.0	750	13	11.6	--
28...	1430	.40	363	8.2	15.5	755	9.0	11.1	--
MAY									
20...	1230	1.8	327	8.0	14.0	755	2.5	9.5	--
JUL									
07...A	0950	6.2	--	--	15.0	--	--	--	200
14...A	1100	6.2	--	--	17.0	--	--	--	130
15...	1445	6.2	355	8.0	16.5	750	19	8.1	--
21...A	1100	12	--	--	18.0	--	--	--	200
28...A	1045	12	--	--	19.0	--	--	--	100
AUG									
04...A	1035	12	--	--	18.0	--	--	--	90
SEP									
02...	1345	12	393	8.1	21.0	750	4.0	8.2	--

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STRFP- 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)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
JAN										
29...	1900	2500	--	--	--	--	--	--	--	--
30...	--	--	270	41	41	41	11	8	.3	1.3
FEB										
05...	500	140	--	--	--	--	--	--	--	--
MAR										
06...	--	--	160	26	28	21	9.0	11	.3	1.2
28...	--	--	180	--	30	25	10	11	.3	1.2
MAY										
20...	--	--	170	--	32	21	9.0	10	.3	1.1
JUL										
07...	110	40	--	--	--	--	--	--	--	--
14...	30	40	--	--	--	--	--	--	--	--
15...	--	--	180	--	34	22	10	11	.3	1.3
21...	20	45	--	--	--	--	--	--	--	--
28...	25	10	--	--	--	--	--	--	--	--
AUG										
04...	20	13	--	--	--	--	--	--	--	--
SEP										
02...	--	--	190	--	37	24	11	11	.4	1.7

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PAJARO RIVER BASIN--Continued

11153500 LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

DATE	ALKA- LINITY FIELD (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 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 29...	--	--	--	--	--	--	--	--	--	--
30...	230	42	13	.1	21	317	.43	.09	1.8	1.9
FEB 05...	--	--	--	--	--	--	--	--	--	--
MAR 06...	140	27	10	.1	16	194	.26	.26	.88	.84
28...	170	16	9.6	.1	18	209	.28	.23	.67	.66
MAY 20...	160	18	9.4	.1	17	199	.27	.97	.11	.12
JUL 07...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
15...	170	3.0	9.6	.1	19	196	.27	3.3	.15	.10
21...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--
SEP 02...	190	11	11	.2	17	221	.30	7.2	.01	.01

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
JAN 29...	--	--	--	--	--	--	--	--	--
30...	.09	.09	--	1.1	--	1.2	--	.08	.03
FEB 05...	--	--	--	--	--	--	--	--	--
MAR 06...	.03	.02	1.2	.78	1.20	.80	2.1	.06	.01
28...	.03	.08	.80	.56	.83	.64	1.5	.05	.00
MAY 20...	.42	.42	.58	.78	1.00	1.2	1.1	.06	.02
JUL 07...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
15...	.74	.69	.76	.51	1.50	1.2	1.7	.14	.02
21...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--
SEP 02...	.07	.10	.85	.83	.92	.93	.93	.06	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PAJARO RIVER BASIN--Continued

11153500 LLAGAS CREEK NEAR MORGAN HILL, 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 30...	1410	--	--	--	--	110	--	--
MAR 06...	1140	--	--	--	--	150	--	--
28...	1430	20	5000	1	5	140	0	0
MAY 20...	1230	--	--	--	--	140	--	--
JUL 15...	1445	--	--	--	--	170	--	--
SEP 02...	1345	10	4000	1	4	210	3	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
JAN 30...	--	--	--	--	--	30	--	--	--
MAR 06...	--	--	--	--	--	40	--	--	--
28...	10	58	30	2	13	40	11000	2	5
MAY 20...	--	--	--	--	--	110	--	--	--
JUL 15...	--	--	--	--	--	140	--	--	--
SEP 02...	0	120	30	1	20	<10	19000	8	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)
JAN 30...	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--	--
28...	50	500	.0	.70	0	0	20	24
MAY 20...	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--
SEP 02...	70	700	1.2	.05	0	0	10	43

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PAJARO RIVER BASIN--Continued

11153500 LLAGAS CREEK NEAR MORGAN HILL, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
JAN 30...	1410	9.7	.7	--	--	--	--	--	--	--
MAR 06...	1140	10	.7	--	--	--	--	--	--	--
28...	1430	--	.5	.00	.00	.00	.00	.00	.00	.00
MAY 20...	1230	8.6	.4	--	--	--	--	--	--	--
JUL 15...	1445	7.1	--	--	--	--	--	--	--	--
SEP 02...	1345	4.1	.1	.00	.00	.00	.00	.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)
JAN 30...	--	--	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--	--	--	--
28...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 20...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
SEP 02...	<.01	.00	.00	.00	.00	.00	.00	.00	.35	.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 30...	--	--	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--	--	--	--
28...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAY 20...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
SEP 02...	.00	.00	.00	.00	.00	0	.00	.01	.00	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PAJARO RIVER BASIN--Continued
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 mi² (62.4 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSIS: Water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, MEM.FIL (COLS./ 100 ML)
JAN										
29...A	1515	--	--	--	12.0	--	--	--	--	4600
30...	1245	4.9	485	7.4	11.0	760	3.4	9.7	87	--
FEB										
05...A	1030	--	--	--	12.0	--	--	--	--	2200
MAR										
06...	1020	1.3	472	7.4	12.5	755	.90	11.2	106	--
28...	1315	2.6	504	7.7	16.5	755	2.7	9.0	92	--
MAY										
20...	1030	1.5	467	7.8	14.0	755	.50	9.6	93	--
JUL										
07...A	0935	--	--	--	15.5	--	--	--	--	1200
14...A	1050	--	--	--	16.5	--	--	--	--	1700
15...	1315	4.9	357	8.1	18.0	750	8.0	9.2	99	--
21...A	1040	--	--	--	16.5	--	--	--	--	600
28...A	1000	--	--	--	19.0	--	--	--	--	850
AUG										
04...A	1025	--	--	--	18.0	--	--	--	--	1000
SEP										
02...	1215	12	365	8.2	20.0	750	2.1	9.0	101	--

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)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
JAN										
29...	1700	1600	--	--	--	--	--	--	--	--
30...	--	--	230	64	41	32	13	11	.4	1.3
FEB										
05...	240	250	--	--	--	--	--	--	--	--
MAR										
06...	--	--	240	32	41	34	12	10	.3	.7
28...	--	--	250	--	44	35	13	10	.4	.8
MAY										
20...	--	--	230	--	41	32	12	10	.3	.7
JUL										
07...	400	430	--	--	--	--	--	--	--	--
14...	440	330	--	--	--	--	--	--	--	--
15...	--	--	180	--	35	23	10	11	.3	1.1
21...	230	170	--	--	--	--	--	--	--	--
28...	210	170	--	--	--	--	--	--	--	--
AUG										
04...	180	170	--	--	--	--	--	--	--	--
SEP										
02...	--	--	200	--	37	25	11	11	.4	1.5

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PAJARO RIVER BASIN--Continued
 11153530 LLAGAS CREEK AT MACHADO SCHOOL NEAR MORGAN HILL, CA--Continued

DATE	ALKA- LINIT (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 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 29...	--	--	--	--	--	--	--	--	--	--
30...	180	39	19	.1	28	291	.40	3.9	3.4	3.4
FEB 05...	--	--	--	--	--	--	--	--	--	--
MAR 06...	220	29	16	.1	24	293	.40	1.0	2.0	2.1
28...	230	28	15	.1	28	299	.41	2.1	2.0	2.0
MAY 20...	210	32	16	.1	24	288	.39	1.2	1.3	.93
JUL 07...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
15...	170	2.0	11	.1	21	209	.28	2.8	.67	.65
21...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--
SEP 02...	190	8.0	12	.2	18	222	.30	7.2	.07	.09

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
JAN 29...	--	--	--	--	--	--	--	--	--
30...	.03	.05	--	1.2	--	1.2	--	.07	.05
FEB 05...	--	--	--	--	--	--	--	--	--
MAR 06...	.03	.03	.83	.54	.86	.57	2.9	.04	.01
28...	.02	.07	.87	.46	.89	.53	2.9	.05	.00
MAY 20...	.17	.12	.57	.51	.74	.63	2.0	.04	.00
JUL 07...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
15...	.19	.09	.79	.69	.98	.78	1.7	.09	.02
21...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--
SEP 02...	.08	.06	.69	.78	.77	.84	.84	.04	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PAJARO RIVER BASIN--Continued

11153530 LLAGAS CREEK AT MACHADO SCHOOL NEAR MORGAN HILL, 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 30...	1245	--	--	--	--	90	--	--
MAR 06...	1020	--	--	--	--	150	--	--
28...	1315	20	6000	0	3	140	0	0
MAY 20...	1030	--	--	--	--	130	--	--
JUL 15...	1315	--	--	--	--	160	--	--
SEP 02...	1215	10	7000	1	4	200	2	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
JAN 30...	--	--	--	--	--	50	--	--	--
MAR 06...	--	--	--	--	--	<10	--	--	--
28...	10	32	270	2	51	20	13000	5	20
MAY 20...	--	--	--	--	--	<10	--	--	--
JUL 15...	--	--	--	--	--	100	--	--	--
SEP 02...	10	60	30	1	38	<10	23000	25	50

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (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, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JAN 30...	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--	--
28...	10	550	.0	.50	0	0	30	36
MAY 20...	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--
SEP 02...	0	800	1.5	.02	0	0	10	55

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PAJARO RIVER BASIN--Continued
 11153530 LLAGAS CREEK AT MACHADO SCHOOL NEAR MORGAN HILL, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
JAN 30...	1245	8.5	.2	--	--	--	--	--	--	--
MAR 06...	1020	4.2	.2	--	--	--	--	--	--	--
MAR 28...	1315	2.9	.2	.00	.00	.00	.00	.00	.00	.00
MAY 20...	1030	19	--	--	--	--	--	--	--	--
JUL 15...	1315	5.3	.3	--	--	--	--	--	--	--
SEP 02...	1215	3.8	<.1	.00	.00	.00	.00	.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)
JAN 30...	--	--	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--	--	--	--
MAR 28...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 20...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
SEP 02...	.00	.00	.00	.00	.00	.00	.00	.00	.24	.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 30...	--	--	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--	--	--	--
MAR 28...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAY 20...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
SEP 02...	.00	.00	.00	.00	.00	0	.00	.01	.00	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PAJARO RIVER BASIN--Continued
11153555 LLAGAS CREEK AT SAN MARTIN, CA

LOCATION.--Lat 37°05'13", long 121°36'15", in San Francisco de Las Llagas Grant, Santa Clara County, Hydrologic Unit 18060002, at bridge on San Martin Avenue, 0.3 mi (0.5 km) east of San Martin.
DRAINAGE AREA.--28.2 mi² (73.0 km²).
PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPF- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE OF (MM HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
JAN										
29...	A 1530	--	--	--	12.0	--	--	--	--	35000
30...	1050	12	297	7.4	11.0	765	76	10.2	91	--
MAR										
28...	1115	3.0	361	8.8	18.5	760	7.4	13.8	147	--
MAY										
20...	0910	17	302	8.2	13.0	755	2.9	10.8	103	--
JUL										
07...	A 0910	--	--	--	20.0	--	--	--	--	8000
14...	A 1015	--	--	--	19.0	--	--	--	--	1300
15...	1200	21	326	8.5	21.0	755	24	10.7	122	--
21...	A 1000	--	--	--	19.0	--	--	--	--	550
28...	A 1030	--	--	--	17.0	--	--	--	--	500
AUG										
04...	A 0945	--	--	--	19.0	--	--	--	--	220
SEP										
02...	1030	20	371	8.3	19.5	755	3.3	10.0	111	--

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCI FFCAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
JAN										
29...	3700	6800	--	--	--	--	--	--	--	--
30...	--	--	120	39	22	16	9.3	14	.4	1.8
MAR										
24...	--	--	180	--	36	23	12	12	.4	1.1
MAY										
20...	--	--	150	--	32	16	9.9	13	.4	1.0
JUL										
07...	270	180	--	--	--	--	--	--	--	--
14...	230	85	--	--	--	--	--	--	--	--
15...	--	--	160	--	34	18	11	13	.4	1.1
21...	110	120	--	--	--	--	--	--	--	--
24...	140	130	--	--	--	--	--	--	--	--
AUG										
04...	90	34	--	--	--	--	--	--	--	--
SEP										
02...	--	--	180	--	36	22	12	13	.4	1.4

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PAJARO RIVER BASIN--Continued
11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

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 SI02)	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 29...	--	--	--	--	--	--	--	--	--	--
30...	94	24	12	.1	17	169	.23	5.5	3.2	3.1
MAR 28...	170	27	11	.1	17	221	.30	1.8	.80	.79
MAY 20...	130	35	7.6	.1	14	189	.26	8.7	.23	.25
JUL 07...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
15...	150	37	8.5	.1	16	210	.29	11.9	.08	.04
21...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--
SEP 02...	170	24	10	.1	16	224	.30	12.1	.01	.04

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
JAN 29...	--	--	--	--	--	--	--	--	--
30...	.10	.10	--	1.2	--	1.3	--	.17	.10
MAR 28...	.05	.03	.68	.59	.73	.62	1.5	.05	.00
MAY 20...	.13	.13	.50	.67	.63	.80	.86	.04	.01
JUL 07...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
15...	.18	.09	.58	.48	.76	.57	.84	.05	.01
21...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--
SEP 02...	.09	.09	.69	.74	.78	.83	.79	.05	.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)
JAN 30...	1050	--	--	--	--	60	--	--
MAR 28...	1115	30	6000	0	4	90	0	0
MAY 20...	0910	--	--	--	--	60	--	--
JUL 15...	1200	--	--	--	--	80	--	--
SEP 02...	1030	10	6000	1	4	140	0	<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 30...	--	--	--	--	--	30	--	--	--
MAR 28...	10	30	20	2	17	40	10000	5	10
MAY 20...	--	--	--	--	--	20	--	--	--
JUL 15...	--	--	--	--	--	20	--	--	--
SEP 02...	0	70	20	1	28	<10	21000	4	20

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PAJARO RIVER BASIN--Continued
11153555 LLAGAS CREEK AT SAN MARTIN, CA--Continued

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 30...	--	--	--	--	--	--	--	--
MAR 28...	10	450	.0	.70	4	0	20	28
MAY 20...	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--
SEP 02...	0	400	1.7	.03	0	0	0	46

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
JAN 30...	1050	11	2.6	--	--	--	--	--	--	--
MAR 28...	1115	7.8	.2	.00	.00	.00	.00	.00	.00	.00
MAY 20...	0910	12	--	--	--	--	--	--	--	--
JUL 15...	1200	6.3	.2	--	--	--	--	--	--	--
SEP 02...	1030	3.9	.1	.00	.00	.00	.00	.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)
JAN 30...	--	--	--	--	--	--	--	--	--	--
MAR 28...	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 20...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
SEP 02...	.00	.00	.00	.00	.00	.00	.00	.00	1.5	.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 30...	--	--	--	--	--	--	--	--	--	--
MAR 28...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAY 20...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
SEP 02...	.00	.00	.00	.00	.00	0	.00	.01	.00	.00

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 mi² (33.2 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1980 to current year.

REMARKS.--Multi-date sample was collected by automatic sampler and composited.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	
NOV											
18...	1040	1.3	604	7.9	8.5	765	.90	11.2	95	9	
JAN											
08...A	1155	1.0	--	--	8.0	--	--	--	--	--	
15...A	1435	1.0	--	--	11.0	--	--	--	--	--	
22...A	0830	1.2	--	--	12.0	--	--	--	--	--	
29...	1010	49	275	7.6	10.0	755	--	10.8	96	28	
29...A	1100	42	--	--	10.0	--	--	--	--	--	
FEB											
05...A	1130	2.9	--	--	10.0	--	--	--	--	--	
MAR											
05...	1010	3.2	482	8.0	9.0	750	3.3	11.5	100	28	
26-27	--	--	437	--	--	--	50	--	--	48	
27...	1100	4.9	439	8.5	11.0	760	--	11.2	101	--	
MAY											
18-19	--	--	387	--	--	--	18	--	--	12	
19...	0935	8.7	372	8.3	11.0	755	--	10.7	97	--	
JUL											
07...A	1035	1.8	--	--	17.0	--	--	--	--	--	
13-14	--	--	439	--	--	--	34	--	--	30	
14...	1045	1.7	431	8.5	18.0	755	--	9.7	103	--	
14...A	1145	1.6	--	--	19.5	--	--	--	--	--	
21...A	1130	1.7	--	--	19.0	--	--	--	--	--	
28...A	1115	1.7	--	--	18.0	--	--	--	--	--	
AUG											
04...A	1115	1.8	--	--	17.5	--	--	--	--	--	
AUG-SEP											
31 01	--	--	525	--	--	--	11	--	--	55	
SEP											
01	1015	1.7	533	8.2	16.5	750	--	9.5	99	-	
DATE		COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCO 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)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
NOV											
18...	--	--	--	--	280	6	48	38	20	14	.5
JAN											
08...	400	5	5	--	--	--	--	--	--	--	--
15...	200	5	22	--	--	--	--	--	--	--	--
22...	210	10	30	--	--	--	--	--	--	--	--
29...	--	--	--	--	120	27	22	16	9.1	14	.4
29...	2600	700	480	--	--	--	--	--	--	--	--
FEB											
05...	1200	55	80	--	--	--	--	--	--	--	--
MAR											
05...	--	--	--	--	240	--	44	31	17	13	.5
26-27	--	--	--	--	210	--	38	27	15	14	.5
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
18-19	--	--	--	--	180	--	35	23	14	14	.5
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	900	260	520	--	--	--	--	--	--	--	--
13-14	--	--	--	--	220	--	40	28	18	15	.5
14...	--	--	--	--	--	--	--	--	--	--	--
14...	850	220	280	--	--	--	--	--	--	--	--
21...	1300	250	290	--	--	--	--	--	--	--	--
28...	9000	1600	870	--	--	--	--	--	--	--	--
AUG											
04...	2200	270	190	--	--	--	--	--	--	--	--
AUG-SEP											
31 01	--	--	--	--	260	--	46	35	23	16	.7
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN--Continued

11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

[illegible][illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN--Continued
11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV 18...	1040	--	--	--	--	370	--	--
JAN 29...	1010	--	--	--	--	60	--	--
MAR 05...	1010	--	--	--	--	120	--	--
26-27	--	0	--	2	--	90	<1	--
27...	1100	--	6000	--	10	--	--	0
MAY 18-19	--	--	--	--	--	200	--	--
JUL 13-14	--	--	--	--	--	300	--	--
AUG-SEP 31 01	--	10	--	3	--	520	0	--
SEP 01	1015	--	6000	--	9	--	--	<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 18...	--	--	--	--	--	10	--	--	--
JAN 29...	--	--	--	--	--	60	--	--	--
MAR 05...	--	--	--	--	--	20	--	--	--
26-27	10	--	--	2	--	20	--	5	--
27...	--	42	30	--	13	--	10000	--	20
MAY 18-19	--	--	--	--	--	10	--	--	--
JUL 13-14	--	--	--	--	--	20	--	--	--
AUG-SEP 31 01	10	--	--	2	--	<10	--	2	--
SEP 01...	--	70	20	--	20	--	18000	--	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)	SILIC- 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 18...	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--
26-27	20	--	.0	--	0	--	50	--
27...	--	430	--	.04	--	0	--	30
MAY 18-19	--	--	--	--	--	--	--	--
JUL 13-14	--	--	--	--	--	--	--	--
AUG-SEP 31 01	0	--	.0	--	0	--	90	--
SEP 01...	--	600	--	1.2	--	0	--	50

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

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN--Continued
 11167500 GUADALUPE CREEK AT GUADALUPE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 18...	1040	6.0	.3	--	--	--	--	--	--	--
JAN 29...	1010	7.9	1.4	--	--	--	--	--	--	--
MAR 05...	1010	11	.2	--	--	--	--	--	--	--
27...	1100	6.0	--	.00	.00	.00	.00	.00	.00	.00
MAY 19...	0935	5.9	.3	--	--	--	--	--	--	--
JUL 14...	1045	5.4	.1	--	--	--	--	--	--	--
SEP 01...	1015	3.3	<.1	.00	.00	.00	.00	.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 18...	--	--	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--	--	--
27...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 01...	.00	.00	.00	.00	.00	.00	.00	.00	.03	.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 18...	--	--	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--	--	--
27...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 01...	.00	.00	.00	.00	.00	0	.00	.01	.00	.00

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN

11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA

LOCATION.--Lat 37°14'51", long 121°52'08", in San Juan Bautista Grant, Santa Clara County, Hydrologic Unit 18050003, at south city limits of San Jose, 0.2 mi (0.3 km) downstream from confluence of Alamitos and Guadalupe Creeks.

DRAINAGE AREA.--53.0 mi² (137.3 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

REMARKS.--Multi-date sample was collected by automatic sampler and composited.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
NOV										
18...	0910	17	440	7.6	14.5	765	--	8.9	86	--
18-18	--	--	448	--	--	--	18	--	--	16
JAN										
08...A	0930	9.0	--	--	10.0	--	--	--	--	--
15...A	1215	6.8	--	--	12.0	--	--	--	--	--
22...A	0800	7.4	--	--	13.0	--	--	--	--	--
29...A	1030	371	--	--	11.0	--	--	--	--	--
29...	1115	356	324	7.4	11.0	760	--	9.7	87	--
29-29	--	--	326	--	--	--	200	--	--	42
FEB										
05...A	0850	5.2	--	--	11.0	--	--	--	--	--
MAR										
04-05	--	--	512	--	--	--	16	--	--	15
05...	1110	16	463	7.7	12.5	750	--	10.8	102	--
26-27	--	--	498	--	--	--	54	--	--	42
27...	1240	15	460	9.0	16.0	760	--	12.4	125	--
MAY										
18-19	--	--	494	--	--	--	10	--	--	12
19...	1030	17	453	8.4	18.0	755	--	10.4	111	--
JUL										
07...A	1020	4.5	--	--	23.0	--	--	--	--	--
13-14	--	--	638	--	--	--	11	--	--	28
14...A	0900	2.9	--	--	22.0	--	--	--	--	--
14...	1215	2.9	519	8.7	27.0	760	--	12.2	154	--
21...A	0845	15	--	--	22.0	--	--	--	--	--
28...A	0845	16	--	--	22.0	--	--	--	--	--
AUG										
04...A	0845	17	--	--	21.0	--	--	--	--	--
AUG-SEP										
31 01	--	--	439	--	--	--	--	--	--	46
SEP										
01...	1115	4.9	432	8.3	22.0	755	--	10.5	121	--

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN--Continued
 11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

DATE	COLI-FORM, TOTAL, IMMEDIATE, MEM. FIL (COLS./100 ML)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREP-TOCOCOCCI, FECAL, (COLS. PER 100 ML)	HARD-NESS (MG/L AS CAC03)	HARD-NESS, NONCARBONATE (MG/L AS CAC03)	CALCIUM, DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORPTION RATIO
NOV										
18...	--	--	--	--	--	--	--	--	--	--
18-18	--	--	--	210	6	33	30	14	13	.4
JAN										
08...	750	130	30	--	--	--	--	--	--	--
15...	220	45	10	--	--	--	--	--	--	--
22...	430	200	2	--	--	--	--	--	--	--
29...	23000	7000	5000	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29-29	--	--	--	140	29	21	21	13	17	.5
FEB										
05...	500	100	20	--	--	--	--	--	--	--
MAR										
04-05	--	--	--	220	--	34	33	23	18	.7
05...	--	--	--	--	--	--	--	--	--	--
26-27	--	--	--	200	--	33	29	26	22	.8
27...	--	--	--	--	--	--	--	--	--	--
MAY										
18-19	--	--	--	230	--	36	33	16	13	.5
19...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	200	120	140	--	--	--	--	--	--	--
13-14	--	--	--	260	--	35	41	21	15	.6
14...	250	210	220	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
21...	400	150	80	--	--	--	--	--	--	--
28...	200	80	64	--	--	--	--	--	--	--
AUG										
04...	180	120	60	--	--	--	--	--	--	--
AUG-SEP										
31 01	--	--	--	210	--	32	31	16	14	.6
SEP										
01...	--	--	--	--	--	--	--	--	--	--

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, FIELO (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 CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
NOV										
18...	--	200	--	--	--	--	--	--	--	--
18-18	1.6	--	21	16	.2	17	257	.35	.86	.84
JAN										
08...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	120	--	--	--	--	--	--	--	--
29-29	2.5	--	29	15	.1	13	189	.26	1.9	1.8
FEB										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
04-05	1.6	--	46	34	.1	16	300	.41	2.1	2.3
05...	--	170	--	--	--	--	--	--	--	--
26-27	1.7	--	48	34	.1	14	288	.39	1.3	1.3
27...	--	150	--	--	--	--	--	--	--	--
MAY										
18-19	1.1	--	35	21	.1	14	281	.38	1.0	1.0
19...	--	200	--	--	--	--	--	--	--	--
JUL										
07...	--	--	--	--	--	--	--	--	--	--
13-14	1.1	--	43	29	.1	13	313	.43	.79	.78
14...	--	--	--	--	--	--	--	--	--	--
14...	--	220	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	--	--	--	--	--	--	--	--	--	--
AUG-SEP										
31 01	1.5	--	21	17	.2	11	246	.33	.32	.35
SEP										
01...	--	190	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV									
18...	--	--	--	--	--	--	--	--	--
18-18	.05	.05	.49	.42	.54	.47	1.4	.03	.01
JAN									
08...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
29-29	.11	.15	--	1.1	--	1.2	--	.27	.16
FEB									
05...	--	--	--	--	--	--	--	--	--
MAR									
04-05	.05	.04	1.3	.80	1.30	.84	3.4	.13	.02
05...	--	--	--	--	--	--	--	--	--
26-27	.10	.05	1.7	.50	1.80	.55	3.1	.18	.00
27...	--	--	--	--	--	--	--	--	--
MAY									
18-19	.16	.11	1.5	.72	1.70	.83	2.7	.08	.01
19...	--	--	--	--	--	--	--	--	--
JUL									
07...	--	--	--	--	--	--	--	--	--
13-14	.18	.12	1.0	.57	1.20	.69	2.0	.08	.02
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
AUG									
04...	--	--	--	--	--	--	--	--	--

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								
18-18	--	--	--	--	--	130	--	--
JAN								
29-29	--	--	--	--	--	80	--	--
MAR								
04-05	--	--	--	--	--	130	--	--
26-27	--	20	--	2	--	130	2	--
27...	1240	--	600	--	14	--	--	0
MAY								
18-19	--	--	--	--	--	100	--	--
JUL								
13-14	--	--	--	--	--	120	--	--
AUG-SEP								
31 01	--	10	--	1	--	120	1	--
SEP								
01...	1115	--	5000	--	13	--	--	<1

See footnote at end of table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN--Continued

11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 18-18	--	--	--	--	--	<10	--	--	--
JAN 29-29	--	--	--	--	--	80	--	--	--
MAR 04-05	--	--	--	--	--	20	--	--	--
26-27	10	--	--	4	--	20	--	3	--
27...	--	45	30	--	15	--	12000	--	10
MAY 18-19	--	--	--	--	--	10	--	--	--
JUL 13-14	--	--	--	--	--	10	--	--	--
AUG-SEP 31 01	0	--	--	3	--	<10	--	5	--
SEP 01...	--	90	30	--	25	--	20000	--	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 18-18	--	--	--	--	--	--	--	--
JAN 29-29	--	--	--	--	--	--	--	--
MAR 04-05	--	--	--	--	--	--	--	--
26-27	5	--	.0	--	100	--	80	--
27...	--	310	--	.06	--	0	--	33
MAY 18-19	--	--	--	--	--	--	--	--
JUL 13-14	--	--	--	--	--	--	--	--
AUG-SEP 31 01	0	--	.0	--	0	--	80	--
SEP 01...	--	400	--	12	--	0	--	55

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN--Continued
 11167572 GUADALUPE RIVER AT ALAMITOS RECHARGE FACILITY, AT SAN JOSE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 18...	0910	9.1	.7	--	--	--	--	--	--	--
JAN 29...	1115	11	2.4	--	--	--	--	--	--	--
MAR 05...	1110	7.9	1.0	--	--	--	--	--	--	--
27...	1240	6.1	.7	.00	.00	.00	.00	.00	.00	.00
MAY 19...	1030	6.1	.7	--	--	--	--	--	--	--
JUL 14...	1215	5.4	.2	--	--	--	--	--	--	--
SEP 01...	1115	4.4	.1	.00	.00	.00	.00	.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 18...	--	--	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--	--	--
27...	.03	.00	.00	.00	.00	.00	.00	.01	.00	.00
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 01...	.01	.00	.00	.00	.00	.00	.00	.00	.16	.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 18...	--	--	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--	--	--
27...	.00	.00	.00	.00	.00	0	.00	.06	.00	.00
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 01...	.00	.00	.00	.00	.00	0	.00	.02	.00	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 mi² (101.3 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1980 to current year.

REMARKS.--Multi-date sample was collected by automatic sampler and composited.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
NOV										
18...	1200	13	383	8.3	13.0	760	--	10.2	96	--
18-18	--	--	385	--	--	--	16	--	--	9
JAN										
08...A	0745	12	--	--	10.0	--	--	--	--	--
15...A	1500	12	--	--	11.0	--	--	--	--	--
22...A	0850	11	--	--	11.0	--	--	--	--	--
29...A	0715	24	--	--	10.0	--	--	--	--	--
29...	0845	25	--	7.5	10.0	750	--	10.6	95	--
29-29	--	--	340	--	--	--	160	--	--	28
FEB										
05...A	0725	11	--	--	9.0	--	--	--	--	--
MAR										
04-05	--	--	413	--	--	--	54	--	--	9
05...	0845	12	386	7.7	10.0	745	--	10.8	97	--
26-27	--	--	414	--	--	--	70	--	--	25
27...	0930	11	403	8.2	10.5	755	--	10.8	97	--
MAY										
18-19	--	--	421	--	--	--	19	--	--	12
19...	0830	14	402	8.1	13.0	750	--	10.3	99	--
JUL										
07...A	1100	10	--	--	18.0	--	--	--	--	--
13-14	--	--	455	--	--	--	6.1	--	--	20
14...A	0730	10	--	--	17.0	--	--	--	--	--
14...	0930	10	449	8.2	18.0	755	--	9.1	97	--
21...A	0730	10	--	--	18.0	--	--	--	--	--
28...A	1135	11	--	--	20.0	--	--	--	--	--
AUG										
04...A	0720	10	--	--	19.0	--	--	--	--	--
AUG-SEP										
31 01	--	--	532	--	--	--	11	--	--	55
SEP										
01...	0845	9.8	526	8.0	20.0	750	--	8.6	97	--

DATE	COLI- FORM, TOTAL, IMMED. MEM/FIL (COLS./ 100 ML.)	COLI- FORM, FFCAL, 0.45 UM-WF (COLS./ 100 ML.)	STREP- TOCOCCEI FECAL, (COLS./ PER 100 ML.)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
NOV										
18...	--	--	--	--	--	--	--	--	--	--
18-18	--	--	--	160	22	40	15	13	15	.4
JAN										
08...	900	4	4	--	--	--	--	--	--	--
15...	1900	2	2	--	--	--	--	--	--	--
22...	1000	5	15	--	--	--	--	--	--	--
29...	4400	190	450	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29-29	--	--	--	140	33	34	14	12	15	.4
FEB										
05...	1300	240	120	--	--	--	--	--	--	--
MAR										
04-05	--	--	--	180	--	44	17	15	15	.5
05...	--	--	--	--	--	--	--	--	--	--
26-27	--	--	--	180	--	45	16	15	15	.5
27...	--	--	--	--	--	--	--	--	--	--
MAY										
18-19	--	--	--	180	--	47	16	15	15	.5
19...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	900	35	90	--	--	--	--	--	--	--
13-14	--	--	--	210	--	52	19	18	16	.5
14...	1300	25	96	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
21...	700	30	90	--	--	--	--	--	--	--
29...	1500	20	75	--	--	--	--	--	--	--
AUG										
04...	110	24	62	--	--	--	--	--	--	--
AUG-SEP										
31 01	--	--	--	250	--	62	23	20	15	.6
SEP										
01...	--	--	--	--	--	--	--	--	--	--

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN--Continued
11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, 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)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV										
18...	--	150	--	--	--	--	--	--	--	--
18-18	2.2	--	45	9.4	.3	7.0	217	.30	.12	.12
JAN										
08...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	110	--	--	--	--	--	--	--	--
29-29	1.5	--	42	12	.2	11	186	.25	.91	.89
FEB										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
04-05	1.8	--	65	11	.2	9.9	239	.33	.69	.69
05...	--	130	--	--	--	--	--	--	--	--
26-27	1.7	--	67	10	.2	11	240	.33	.48	.48
27...	--	130	--	--	--	--	--	--	--	--
MAY										
18-19	1.7	--	72	11	.2	9.8	253	.34	.48	.51
19...	--	130	--	--	--	--	--	--	--	--
JUL										
07...	--	--	--	--	--	--	--	--	--	--
13-14	2.1	--	80	12	.2	9.1	278	.38	.31	.25
14...	--	--	--	--	--	--	--	--	--	--
14...	--	150	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	--	--	--	--	--	--	--	--	--	--
AUG-SEP										
31 01	2.3	--	89	14	.2	6.0	326	.44	.13	.16
SEP										
01...	--	180	--	--	--	--	--	--	--	--

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV									
18...	--	--	--	--	--	--	--	--	--
18-18	.03	.02	--	1.5	--	1.5	--	.03	.01
JAN									
08...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
29-29	.06	.07	--	.90	--	.97	--	.12	.01
FEB									
05...	--	--	--	--	--	--	--	--	--
MAR									
04-05	.06	.03	.71	.37	.77	.40	1.5	.11	.01
05...	--	--	--	--	--	--	--	--	--
26-27	.04	.00	1.5	.78	1.50	.78	2.0	.12	.00
27...	--	--	--	--	--	--	--	--	--
MAY									
18-19	.16	.08	1.0	.45	1.20	.53	1.7	.08	.03
19...	--	--	--	--	--	--	--	--	--
JUL									
07...	--	--	--	--	--	--	--	--	--
13-14	.19	.10	.81	.68	1.00	.78	1.3	.10	.02
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
AUG									
04...	--	--	--	--	--	--	--	--	--
AUG-SEP									
31 01	<.06	<.06	.85	.81	.71	.64	.84	.07	.00
SEP									
01...	--	--	--	--	--	--	--	--	--

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

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN--Continued
 11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV								
18-18	--	--	--	--	--	60	--	--
JAN								
29-29	--	--	--	--	--	50	--	--
MAR								
04-05	--	--	--	--	--	50	--	--
26-27	--	10	--	2	--	40	2	--
27...	0930	--	4200	--	10	--	--	0
MAY								
18-19	--	--	--	--	--	30	--	--
JUL								
13-14	--	--	--	--	--	60	--	--
AUG-SEP								
31 01	--	10	--	2	--	70	0	--
SEP								
01...	0845	--	7000	--	4	--	--	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV									
18-18	--	--	--	--	--	10	--	--	--
JAN									
29-29	--	--	--	--	--	60	--	--	--
MAR									
04-05	--	--	--	--	--	20	--	--	--
26-27	10	--	--	2	--	20	--	3	--
27...	--	22	10	--	17	--	6000	--	20
MAY									
18-19	--	--	--	--	--	20	--	--	--
JUL									
13-14	--	--	--	--	--	10	--	--	--
AUG-SEP									
31 01	10	--	--	4	--	<10	--	2	--
SEP									
01...	--	50	10	--	32	--	15000	--	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								
18-18	--	--	--	--	--	--	--	--
JAN								
29-29	--	--	--	--	--	--	--	--
MAR								
04-05	--	--	--	--	--	--	--	--
26-27	20	--	.0	--	100	--	50	--
27...	--	440	--	.04	--	0	--	28
MAY								
18-19	--	--	--	--	--	--	--	--
JUL								
13-14	--	--	--	--	--	--	--	--
AUG-SEP								
31 01	40	--	.0	--	0	--	20	--
SEP								
01...	--	850	--	.02	--	0	--	46

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN--Continued
 11168000 LOS GATOS CREEK AT LOS GATOS, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 18...	1200	7.4	.4	--	--	--	--	--	--	--
JAN 29...	0845	9.9	1.3	--	--	--	--	--	--	--
MAR 05...	0845	9.0	.5	--	--	--	--	--	--	--
27...	0930	6.2	2.5	.00	.00	.00	.00	.00	.00	.00
MAY 19...	0830	11	.4	--	--	--	--	--	--	--
JUL 14...	0930	5.2	--	--	--	--	--	--	--	--
SEP 01...	0845	4.2	.1	.00	.00	.00	.00	.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 18...	--	--	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--	--	--
27...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 01...	.00	.00	.00	.00	.00	.00	.00	.00	.07	.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 18...	--	--	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--	--	--
27...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 01...	.00	.00	.00	.00	.00	0	.00	.01	.00	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 mi² (112.1 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
NOV										
18...	1310	16	392	8.3	13.0	765	2.5	11.0	104	4
JAN										
08...A	0825	11	--	--	10.0	--	--	--	--	--
15...A	1120	13	--	--	11.0	--	--	--	--	--
22...A	0905	8.7	--	--	13.0	--	--	--	--	--
29...A	0730	67	--	--	11.0	--	--	--	--	--
29...	0735	68	343	7.2	11.0	755	46	10.5	95	22
FEB										
05...A	0740	12	--	--	11.0	--	--	--	--	--
MAR										
05...	0735	17	394	7.3	11.0	750	7.4	9.9	91	8
27...	0815	18	396	8.1	13.0	760	12	9.6	92	14
MAY										
19...	0730	2.1	413	7.7	16.0	755	.80	6.0	61	11
JUL										
07...A	1115	14	--	--	24.0	--	--	--	--	--
14...A	0745	12	437	8.0	22.5	755	1.5	6.9	81	26
21...A	0800	10	--	--	23.0	--	--	--	--	--
28...A	1150	16	--	--	18.0	--	--	--	--	--
AUG										
04...A	0745	12	--	--	22.0	--	--	--	--	--
SEP										
01...	0730	11	488	7.6	22.0	750	1.5	6.8	79	58

DATE	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FFCAL, 0.45 UM-VF (COLS./ 100 ML)	STREP- TOCOCCEI FECAL, PFR (COLS. 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)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
NOV										
18...	--	--	--	170	28	41	16	13	14	.4
JAN										
08...	1300	180	210	--	--	--	--	--	--	--
15...	700	55	30	--	--	--	--	--	--	--
22...	950	90	70	--	--	--	--	--	--	--
29...	17000	13000	2100	--	--	--	--	--	--	--
29...	--	--	--	140	37	33	13	13	17	.5
FEB										
05...	1100	280	130	--	--	--	--	--	--	--
MAR										
05...	--	--	--	180	--	44	17	15	15	.5
27...	--	--	--	180	--	43	17	15	15	.5
MAY										
19...	--	--	--	190	--	48	18	16	15	.5
JUL										
07...	5000	150	40	--	--	--	--	--	--	--
14...	2000	55	19	200	--	48	19	18	16	.6
21...	1000	85	30	--	--	--	--	--	--	--
28...	2000	20	80	--	--	--	--	--	--	--
AUG										
04...	2100	40	45	--	--	--	--	--	--	--
SEP										
01...	--	--	--	220	--	53	22	20	16	.6

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN--Continued
 11168660 LOS GATOS CREEK AT LARK AVENUE, AT LOS GATOS, CA--Continued

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (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)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV										
18...	2.2	150	42	11	.2	7.6	218	.30	9.4	.06
JAN										
08...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	1.9	110	43	13	.2	8.1	189	.26	34.7	.88
FEB										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
05...	1.7	140	55	14	.2	10	238	.32	10.9	.53
27...	1.7	140	51	12	.2	11	231	.31	11.2	.32
MAY										
19...	1.8	150	71	12	.2	9.0	267	.36	1.5	.27
JUL										
07...	--	--	--	--	--	--	--	--	--	--
14...	2.0	150	75	14	.2	9.5	270	.37	8.8	.09
21...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	2.3	160	80	13	.2	8.9	296	.40	8.8	.07

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- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV										
18...	.07	.02	.05	--	.54	--	.63	--	.02	.01
JAN										
08...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	.84	.08	.10	1.2	.87	1.30	.97	2.2	.11	.04
FEB										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
05...	.54	.05	.05	.81	.59	.86	.64	1.4	.07	.00
27...	.32	.03	.04	.64	.72	.67	.76	.99	.05	.00
MAY										
19...	.26	.17	.16	.49	.41	.66	.57	.93	.05	.03
JUL										
07...	--	--	--	--	--	--	--	--	--	--
14...	.04	.25	.11	.48	.53	.73	.64	.82	.05	.02
21...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	.08	.19	.15	.79	.62	.98	.77	1.1	.07	.02

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 H)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV 18...	1310	--	--	--	--	80	--	--
JAN 29...	0735	--	--	--	--	40	--	--
MAR 05...	0735	--	--	--	--	50	--	--
27...	0815	10	4200	2	9	40	0	0
MAY 19...	0730	--	--	--	--	40	--	--
JUL 14...	0745	--	--	--	--	60	--	--
SEP 01...	0730	0	4000	2	4	80	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 18...	--	--	--	--	--	10	--	--	--
JAN 29...	--	--	--	--	--	60	--	--	--
MAR 05...	--	--	--	--	--	20	--	--	--
27...	10	14	10	4	8	10	7000	0	35
MAY 19...	--	--	--	--	--	10	--	--	--
JUL 14...	--	--	--	--	--	10	--	--	--
SEP 01...	0	30	10	9	20	<10	16000	2	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 18...	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--
27...	50	480	.0	.90	0	0	10	42
MAY 19...	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--
SEP 01...	10	600	.0	.06	0	0	10	55

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 18...	1310	6.2	.7	--	--	--	--	--	--	--
JAN 29...	0735	8.2	1.2	--	--	--	--	--	--	--
MAR 05...	0735	6.2	1.2	--	--	--	--	--	--	--
27...	0815	6.5	.2	.00	.00	.00	.00	.00	.00	.00
MAY 19...	0730	7.3	--	--	--	--	--	--	--	--
JUL 14...	0745	5.0	.1	--	--	--	--	--	--	--
SEP 01...	0730	3.4	.1	.00	.00	.00	.00	.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 18...	--	--	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--	--	--
27...	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 01...	.00	.00	.00	.00	.00	.00	.00	.00	.61	.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- APHENF, 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 18...	--	--	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--	--	--
27...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 01...	.00	.00	.00	.00	.00	0	.00	.01	.00	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN
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 mi² (125.4 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSIS: Water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE OF (MM HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
JAN										
08...A	0850	.40	--	--	7.0	--	--	--	--	--
15...A	1140	1.6	--	--	9.0	--	--	--	--	--
29...A	0830	5.2	--	--	11.0	--	--	--	--	--
29...A	1300	39	256	7.5	11.5	760	44	10.4	95	57
FEB										
05...A	0805	4.9	--	--	9.0	--	--	--	--	--
MAR										
27...A	1345	.00	--	--	--	--	--	--	--	--
SEP										
01...A	1230	.00	--	--	--	--	--	--	--	--

DATE	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCO FECAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
JAN									
08...	650	75	21	--	--	--	--	--	--
15...	700	95	24	--	--	--	--	--	--
29...	35000	3000	8500	--	--	--	--	--	--
29...	--	--	--	99	28	24	9.4	11	19
FEB									
05...	1400	180	60	--	--	--	--	--	--
MAR									
27...	--	--	--	--	--	--	--	--	--
SEP									
01...	--	--	--	--	--	--	--	--	--

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
JAN									
08...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
29...	.5	1.9	78	33	12	.2	6.5	144	.20
FEB									
05...	--	--	--	--	--	--	--	--	--
MAR									
27...	--	--	--	--	--	--	--	--	--
SEP									
01...	--	--	--	--	--	--	--	--	--

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN--Continued
 11168800 LOS GATOS CREEK AT LINCOLN AVENUE, AT SAN JOSE, CA--Continued

DATE	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 DIS- SOLVED (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- ORTHOPHOS- PHORUS, DIS- SOLVED (MG/L AS P)
JAN 08...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
29...	15.2	.82	.81	.11	.10	.32	.42	.12	.06
FFB 05...	--	--	--	--	--	--	--	--	--
MAR 27...	--	--	--	--	--	--	--	--	--
SEP 01...	--	--	--	--	--	--	--	--	--

DATE	TIME	ALUM- INUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)
JAN 29...	1300	--	--	40	--	--	--	--
MAR 27...	1345	1300	4	--	0	5	2	5
SEP 01...	1230	4000	4	--	<1	20	10	19

DATE	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JAN 29...	40	--	--	--	--	--	--
MAR 27...	--	1400	42	130	.06	0	43
SEP 01...	--	11000	50	220	.03	0	85

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDEED TOTAL (MG/L AS C)
JAN 29...	1300	6.9	1.3

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 mi² (373 km²).

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
NOV										
18...	0720	.24	724	7.2	10.5	770	4.9	1.0	9	32
JAN										
08...A	0905	.39	--	--	10.0	--	--	--	--	--
15...A	1150	2.4	--	--	11.0	--	--	--	--	--
22...A	0950	.46	--	--	14.0	--	--	--	--	--
29...A	0845	350	--	--	11.0	--	--	--	--	--
29...	1430	293	282	7.4	11.0	760	130	10.2	92	39
FEB										
05...A	0815	6.2	--	--	10.0	--	--	--	--	--
MAR										
05...	1255	21	394	7.7	12.0	755	19	10.0	93	28
27...	1415	3.7	332	8.0	15.5	765	16	8.4	84	43
MAY										
19...	1230	.46	866	8.1	16.0	760	2.1	6.3	64	12
JUL										
07...A	0750	.33	--	--	20.0	--	--	--	--	--
14...A	0830	.33	--	--	17.5	--	--	--	--	--
14...	1345	.28	702	8.5	23.0	760	5.2	13.2	153	25
21...A	0825	.39	--	--	20.0	--	--	--	--	--
28...A	0815	.28	--	--	19.0	--	--	--	--	--
AUG										
04...A	0820	.79	--	--	19.0	--	--	--	--	--
SEP										
01...	1300	.33	728	8.0	19.5	760	2.6	9.8	107	69

DATE	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)	COLI- FORM, FFCAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCEI 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)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
NOV										
18...	--	--	--	260	19	59	27	47	28	1.3
JAN										
08...	3500	150	50	--	--	--	--	--	--	--
15...	6000	90	110	--	--	--	--	--	--	--
22...	460000	2600	1100	--	--	--	--	--	--	--
29...	31000	4900	13000	--	--	--	--	--	--	--
29...	--	--	--	110	33	21	15	12	18	.5
FEB										
05...	8500	950	240	--	--	--	--	--	--	--
MAR										
05...	--	--	--	160	--	29	21	23	24	.8
27...	--	--	--	130	--	23	17	20	25	.8
MAY										
19...	--	--	--	370	--	64	50	50	23	1.1
JUL										
07...	11000	110	55	--	--	--	--	--	--	--
14...	21000	600	90	--	--	--	--	--	--	--
14...	--	--	--	290	--	62	33	50	27	1.3
21...	12000	160	160	--	--	--	--	--	--	--
28...	8500	640	230	--	--	--	--	--	--	--
AUG										
04...	12000	100	350	--	--	--	--	--	--	--
SEP										
01...	--	--	--	300	--	64	35	48	25	1.3

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN--Continued
 11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	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 18...	3.3	240	50	54	.2	19	409	.56	.27	1.2
JAN 08...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	2.1	90	27	12	.1	11	156	.21	123	1.5
FEB 05...	--	--	--	--	--	--	--	--	--	--
MAR 05...	1.6	120	41	28	.1	10	232	.32	13.2	1.4
27...	1.7	120	29	18	.1	7.4	186	.25	1.9	.82
MAY 19...	2.6	340	81	48	.1	14	526	.72	.65	1.7
JUL 07...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	2.9	250	75	52	.1	15	439	.60	.33	1.0
21...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--
SEP 01...	2.8	250	72	50	.2	21	456	.62	.41	1.4
DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA (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 (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV 18...	1.2	.05	.02	.95	.65	1.00	.67	2.2	.30	.20
JAN 08...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	1.5	.13	.10	--	1.1	--	1.2	--	.26	.15
FEB 05...	--	--	--	--	--	--	--	--	--	--
MAR 05...	1.4	.06	.06	1.0	1.0	1.10	1.1	2.5	.15	.06
27...	.81	.05	.08	1.2	.66	1.20	.74	2.0	.21	.05
MAY 19...	1.7	.24	.21	.86	.99	1.10	1.2	2.8	.24	.14
JUL 07...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	1.0	.24	.17	.86	.71	1.10	.88	2.1	.24	.15
21...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--
SEP 01...	1.4	.07	.09	.93	1.0	1.00	1.1	2.4	.24	.09

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 18...	0720	--	--	--	--	150	--	--
JAN 29...	1430	--	--	--	--	60	--	--
MAR 05...	1255	--	--	--	--	120	--	--
27...	1415	20	4200	3	10	80	1	0
MAY 19...	1230	--	--	--	--	190	--	--
JUL 14...	1345	--	--	--	--	150	--	--
SEP 01...	1300	10	5000	2	7	180	0	<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 18...	--	--	--	--	--	90	--	--	--
JAN 29...	--	--	--	--	--	30	--	--	--
MAR 05...	--	--	--	--	--	50	--	--	--
27...	10	21	15	6	17	20	7500	3	23
MAY 19...	--	--	--	--	--	10	--	--	--
JUL 14...	--	--	--	--	--	10	--	--	--
SEP 01...	0	50	20	2	100	<10	16000	5	110

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 18...	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--
27...	20	190	.0	.40	0	0	20	70
MAY 19...	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--
SEP 01...	0	310	.0	.36	0	0	40	120

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GUADALUPE RIVER BASIN--Continued
 11169000 GUADALUPE RIVER AT SAN JOSE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 18...	0720	12	1.0	--	--	--	--	--	--	--
JAN 29...	1430	12	2.6	--	--	--	--	--	--	--
MAR 05...	1255	7.8	.9	--	--	--	--	--	--	--
27...	1415	9.2	.4	.00	.00	.00	.10	.00	.00	.00
MAY 19...	1230	24	--	--	--	--	--	--	--	--
JUL 14...	1345	4.8	.4	--	--	--	--	--	--	--
SEP 01...	1300	3.3	.1	.00	.00	.00	.00	.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 18...	--	--	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--	--	--
27...	.34	.00	.00	.00	.00	.00	.00	.02	.22	.00
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 01...	.02	.00	.00	.00	.00	.00	.00	.00	.96	.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 18...	--	--	--	--	--	--	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--	--	--
27...	.00	.00	.00	.00	.00	0	.00	.17	.00	.00
MAY 19...	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--
SEP 01...	.00	.00	.00	.00	.00	0	.00	.02	.00	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 mi² (505 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSIS: Water years 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, PER- CENT SATUR- ATION	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
NOV										
19...	0800	17	296	7.6	13.0	760	34	10.4	98	--
JAN										
08...A	1025	25	--	--	13.0	--	--	--	--	150
15...A	1330	29	--	--	12.0	--	--	--	--	40
22...A	1100	30	--	--	12.0	--	--	--	--	100
29...A	0945	29	--	--	12.0	--	--	--	--	1600
30...	0925	29	301	7.7	11.0	760	290	10.7	96	--
FEB										
05...A	0940	28	--	--	11.0	--	--	--	--	170
MAR										
06...	0855	29	313	7.9	11.0	750	100	10.6	97	--
28...	0945	19	316	8.2	11.0	755	42	10.6	98	--
MAY										
20...	0800	52	325	8.0	12.0	755	26	10.6	98	--
JUL										
07...A	0855	66	--	--	13.0	--	--	--	--	550
14...A	1000	68	--	--	13.0	--	--	--	--	200
15...	0945	65	337	8.1	13.0	750	14	10.2	98	--
21...A	0945	37	--	--	13.0	--	--	--	--	300
28...A	0930	66	--	--	13.0	--	--	--	--	95
AUG										
04...A	0930	55	--	--	18.5	--	--	--	--	250
SEP										
02...	0915	73	334	8.0	13.0	750	7.6	10.2	98	--

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)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV										
19...	--	--	120	7	27	12	13	19	.5	2.0
JAN										
08...	5	5	--	--	--	--	--	--	--	--
15...	3	3	--	--	--	--	--	--	--	--
22...	5	5	--	--	--	--	--	--	--	--
29...	440	430	--	--	--	--	--	--	--	--
30...	--	--	120	21	27	13	15	21	.6	1.9
FEB										
05...	60	55	--	--	--	--	--	--	--	--
MAR										
06...	--	--	140	22	32	15	16	19	.6	1.8
28...	--	--	140	--	32	14	16	20	.6	1.8
MAY										
20...	--	--	140	--	33	14	15	19	.6	1.7
JUL										
07...	5	2	--	--	--	--	--	--	--	--
14...	5	4	--	--	--	--	--	--	--	--
15...	--	--	140	--	32	15	17	20	.6	1.9
21...	5	5	--	--	--	--	--	--	--	--
28...	5	7	--	--	--	--	--	--	--	--
AUG										
04...	5	5	--	--	--	--	--	--	--	--
SEP										
02...	--	--	140	--	32	15	16	19	.6	2.0

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

COYOTE CREEK BASIN--Continued
 11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM NEAR MADRONE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY FIELD (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 CONSTI- TUTENTS, 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 19...	120	23	9.2	.2	11	166	.23	7.6	.52	.52
JAN 08...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
30...	110	32	11	.1	9.8	173	.24	13.5	.54	.56
FEB 05...	--	--	--	--	--	--	--	--	--	--
MAR 06...	130	38	11	.1	11	199	.27	15.6	.26	.27
28...	130	39	11	.1	10	192	.26	9.9	.27	.35
MAY 20...	130	39	10	.1	9.7	202	.27	28.4	.29	.29
JUL 07...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
15...	130	42	11	.1	11	204	.28	35.8	.34	.30
21...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--	--
SEP 02...	130	36	11	.2	10	202	.27	39.8	.27	.29

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV 19...	.04	.04	.65	.54	.69	.58	1.2	.05	.02
JAN 08...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
30...	.09	.05	--	.77	--	.82	--	.13	.02
FEB 05...	--	--	--	--	--	--	--	--	--
MAR 06...	.07	.04	.75	.51	.82	.55	1.1	.09	.02
28...	.03	.02	.46	.59	.49	.61	.76	.06	.00
MAY 20...	.17	.12	.49	.55	.66	.67	.95	.06	.02
JUL 07...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
15...	.20	.10	.50	.60	.70	.70	1.0	.06	.01
21...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
AUG 04...	--	--	--	--	--	--	--	--	--
SEP 02...	.06	<.06	.94	.89	1.00	.76	1.3	.04	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

COYOTE CREEK BASIN--Continued
11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM NEAR MADRONE, CA--Continued

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ALUM- INUM, RECOV. FM HOT- TOM MA- TERIAL (UG/G)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)
NOV							
19...	0800	--	--	--	80	--	--
JAN							
30...	0925	--	--	--	70	--	--
MAR							
06...	0855	--	--	--	80	--	--
28...	0945	10	4200	1	70	0	0
MAY							
20...	0800	--	--	--	70	--	--
JUL							
15...	0945	--	--	--	80	--	--
SEP							
02...	0915	0	4000	1	80	0	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CP)	CHRO- MIUM, RECOV. FM HOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM HOT- 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 HOT- 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									
19...	--	--	--	--	--	20	--	--	--
JAN									
30...	--	--	--	--	--	40	--	--	--
MAR									
06...	--	--	--	--	--	390	--	--	--
28...	10	34	27	3	15	10	10000	4	10
MAY									
20...	--	--	--	--	--	10	--	--	--
JUL									
15...	--	--	--	--	--	20	--	--	--
SEP									
02...	0	60	20	1	21	<10	19000	2	10

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM HOT- TOM MA- TERIAL (UG/G)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM HOT- 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								
19...	--	--	--	--	--	--	--	--
JAN								
30...	--	--	--	--	--	--	--	--
MAR								
06...	--	--	--	--	--	--	--	--
28...	20	1700	.0	.60	0	0	20	25
MAY								
20...	--	--	--	--	--	--	--	--
JUL								
15...	--	--	--	--	--	--	--	--
SEP								
02...	0	1800	1.9	.04	0	0	10	43

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

COYOTE CREEK BASIN--Continued
 11169970 COYOTE CREEK BELOW LEROY ANDERSON DAM NEAR MADRONE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
NOV 19...	0800	5.5	--	--	--	--	--	--	--	--
JAN 30...	0925	9.4	1.9	--	--	--	--	--	--	--
MAR 06...	0855	6.2	.8	--	--	--	--	--	--	--
28...	0945	4.8	.9	.00	.00	.00	.00	.00	.00	.00
MAY 20...	0800	7.8	.5	--	--	--	--	--	--	--
JUL 15...	0945	7.8	.2	--	--	--	--	--	--	--
SEP 02...	0915	3.4	<.1	.00	.00	.00	.00	.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 19...	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	--	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--	--	--	--
28...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 20...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
SEP 02...	.00	.00	.00	.00	.00	.00	.00	.00	.01	.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 19...	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	--	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--	--	--	--
28...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
MAY 20...	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--
SEP 02...	.00	.00	.00	.00	.00	0	.00	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

COYOTE CREEK BASIN
11171500 COYOTE CREEK NEAR EDENVILLE, CA

LOCATION.--Lat 38°16'15", long 121°47'47", at east boundary of Santa Teresa Grant, Santa Clara County, Hydrologic Unit 18050003, at "The Narrows," 1.5 mi (2.4 km) northeast of Edenvale, and 7 mi (11 km) south of San Jose.
DRAINAGE AREA.--229 mi² (593 km²).
PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1979 to current year.

REMARKS.--Multi-date sample was collected by automatic sampler and composited.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- METRIC PRES- SURE (MM OF HG)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, TOTAL, IMMED. MEM.FIL (COLS./ 100 ML)
JAN										
08...A	0955	.00	--	--	10.0	--	--	--	--	12000
29...A	0915	4.0	--	--	11.0	--	--	--	--	320000
29-30	--	--	525	--	--	--	110	--	--	--
30...	0730	60	470	7.2	10.5	765	--	9.5	84	--
FEB										
05...A	0910	9.6	--	--	10.0	--	--	--	--	1300
MAR										
05-06	--	--	541	--	--	--	81	--	--	--
06...	0725	8.9	538	7.7	10.5	755	--	9.0	81	--
28...	0815	3.8	605	8.2	13.5	760	3.5	7.8	74	--
JUL										
07...A	0825	2.2	--	--	20.0	--	--	--	--	1200
14...A	0930	1.9	--	--	20.0	--	--	--	--	1200
15...	0800	1.9	383	8.0	20.5	755	.80	5.8	65	--
21...A	0915	11	--	--	21.0	--	--	--	--	17000
SEP										
02...	0745	.90	380	7.8	18.0	755	.70	5.6	60	--

DATE	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CICAL, (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
JAN										
08...	60	140	--	--	--	--	--	--	--	--
29...	22000	16000	--	--	--	--	--	--	--	--
29-30	--	--	220	57	44	26	22	18	.7	2.6
30...	--	--	--	--	--	--	--	--	--	--
FEB										
05...	120	170	--	--	--	--	--	--	--	--
MAR										
05-06	--	--	240	52	49	29	26	19	.7	1.5
06...	--	--	--	--	--	--	--	--	--	--
28...	--	--	270	--	52	33	27	18	.7	1.6
JUL										
07...	160	200	--	--	--	--	--	--	--	--
14...	140	170	--	--	--	--	--	--	--	--
15...	--	--	170	--	36	19	20	20	.7	1.5
21...	270	470	--	--	--	--	--	--	--	--
SEP										
02...	--	--	160	--	34	18	18	20	.7	1.8

A Bacterial sample collected and analyzed by Santa Clara Valley Water District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

COYOTE CREEK BASIN--Continued
 11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

DATE	ALKA- LINITY FIELD (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)	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										
08...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29-30	--	57	21	.2	14	301	.41	--	4.0	4.0
30...	140	--	--	--	--	--	--	--	--	--
FEB										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
05-06	--	59	22	.2	13	332	.45	--	3.8	1.8
06...	190	--	--	--	--	--	--	--	--	--
28...	210	66	25	.2	15	359	.49	3.7	4.1	4.2
JUL										
07...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
15...	150	49	13	.1	11	235	.32	1.2	.23	.20
21...	--	--	--	--	--	--	--	--	--	--
SEP										
02...	150	38	12	.2	10	222	.30	.54	.02	.04

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
JAN									
08...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
29-30	.07	.04	--	.75	--	.79	--	.25	.04
30...	--	--	--	--	--	--	--	--	--
FEB									
05...	--	--	--	--	--	--	--	--	--
MAR									
05-06	.07	.03	1.8	.97	1.90	1.0	5.7	.28	.01
06...	--	--	--	--	--	--	--	--	--
28...	.05	.04	1.3	.84	1.30	.88	5.4	.04	.00
JUL									
07...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
15...	.22	.12	.63	.63	.85	.75	1.1	.05	.02
21...	--	--	--	--	--	--	--	--	--
SEP									
02...	.11	.12	.57	.64	.68	.76	.70	.04	.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 29-30	--	--	--	--	--	100	--	--
MAR 05-06	--	--	--	--	--	120	--	--
28...	0815	10	1800	1	7	100	0	0
JUL 15...	0800	--	--	--	--	90	--	--
SEP 02...	0745	10	1000	1	10	90	0	<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 29-30	--	--	--	--	--	20	--	--	--
MAR 05-06	--	--	--	--	--	10	--	--	--
28...	10	58	27	2	8	20	6000	6	83
JUL 15...	--	--	--	--	--	30	--	--	--
SEP 02...	0	100	20	1	10	31	14000	3	50

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 29-30	--	--	--	--	--	--	--	--
MAR 05-06	--	--	--	--	--	--	--	--
28...	10	190	.0	1.0	0	0	10	110
JUL 15...	--	--	--	--	--	--	--	--
SEP 02...	0	230	1.7	.05	0	0	10	85

See footnote at end of table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

COYOTE CREEK BASIN--Continued
 11171500 COYOTE CREEK NEAR EDENVALE, CA--Continued

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARRON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)
JAN 30...	0730	--	1.8	--	--	--	--	--	--	--
MAR 06...	0725	13	.3	--	--	--	--	--	--	--
28...	0815	7.8	.6	.00	.00	.00	.00	.00	.00	.00
JUL 15...	0800	6.1	.1	--	--	--	--	--	--	--
SEP 02...	0745	3.3	<.1	.00	.00	.00	.00	.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)
JAN 30...	--	--	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--	--	--	--
28...	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUL 15...	--	--	--	--	--	--	--	--	--	--
SEP 02...	<.01	.00	.00	.00	.00	.00	.00	.00	.24	.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 30...	--	--	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--	--	--	--
28...	.00	.00	.00	.00	.00	0	.00	.08	.00	.00
JUL 15...	--	--	--	--	--	--	--	--	--	--
SEP 02...	.00	.00	.00	.00	.00	0	.00	.01	.00	.00

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

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

EEL RIVER BASIN
11475500 SOUTH FORK EEL RIVER NEAR BRANSCOMB, CA

LOCATION.--Lat 39°43'09", long 123°39'06", in NW¼ sec.32, T.22 N., R.16 W., Mendocino County, 0.4 mi (0.6 km) upstream from Jack of Hearts Creek and 4.7 mi (7.6 km) north of Branscomb.

DRAINAGE AREA.--43.9 mi² (113.7 km²).

PERIOD OF RECORD.--Water years 1957-70, 1977, 1981.

CHEMICAL ANALYSES: Water year 1977.

WATER TEMPERATURES: Water years 1961-70.

SEDIMENT RECORDS: Water years 1957-70, 1981.

TURBIDITY: Water years 1966-68.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1960 to September 1970.

SEDIMENT RECORDS: October 1962 to September 1970.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM
OCT 29...	1155	9.0	3.2	3	.03	92	--
NOV 25...	1635	7.5	9.5	2	.05	--	--
DEC 24...	1300	8.0	69	3	.56	--	--
FEB 03...	1410	9.0	222	7	4.2	84	--
MAR 04...	1310	9.5	339	36	33	95	100
APR 29...	1615	18.0	37	2	.20	--	--
MAY 27...	1830	20.0	24	3	.19	--	--
JUL 29...	1655	27.0	1.7	3	.01	--	--
AUG 26...	1600	20.0	1.9	0	.00	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

REDWOOD CREEK BASIN
11482210 BRIDGE CREEK NEAR ORICK, CA

LOCATION.--Lat 41°11'32", long 123°58'52", unsurveyed, Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on left bank 400 ft (122 m) upstream from mouth, 7.7 mi (12.4 km) southeast of Orick.
DRAINAGE AREA.--11.6 mi² (30.0 km²).

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

CHEMICAL ANALYSES: Water years 1973-78.

SEDIMENT RECORDS: Water years 1974-76, 1978 to current year.

REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies," Data Release Numbers 1 and 2.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDEO (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEO (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
JAN 23...	1210	10.0	104	414	116	37	45	63	86	98	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

REDWOOD CREEK BASIN--Continued
 11482260 MILLER CREEK AT MOUTH, NEAR ORICK, CA

LOCATION.--Lat 41°13'46", long 124°00'36", in NE¼ sec.25, T.10 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, Redwood National Park, on left bank 100 ft (30 m) upstream from mouth, 4.7 mi (7.6 km) southeast of Orick.

DRAINAGE AREA.--1.36 mi² (3.52 km²).

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

CHEMICAL ANALYSES: Water years 1973-78.

SEDIMENT RECORDS: Water years 1974 to current year.

REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies," Data Release Numbers 1 and 2.

DATE	TIME	TEMPER- ATURE (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .008 MM
JAN 22...	1200	11.0	62	1250	209	15	20	30
DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .031 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
JAN 22...	40	49	56	63	72	80	88	92

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1981

SAN LORENZO RIVER BASIN
LOVE CREEK AT BEN LOMOND, CA

LOCATION.-- Lat. 37°05'21", long 122°05'13", in NE¼SW¼, sec.4, T.10 S., R.2 W., Santa Cruz County, Hydrologic Unit 18060001, at Brookside Way Bridge at Ben Lomond.

DRAINAGE AREA.--3.04 mi² (11.74 km²).

PERIOD OF RECORD.--

SEDIMENT RECORDS: Water year 1981.

COOPERATION.--Sediment samples were collected and analyzed by County of Santa Cruz, Environmental Planning Division.

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
JAN					
22...	1345	40	1280	138	97
22...	1455	17	846	39	98
22...	1515	28	632	48	92
27...	1310	51	832	115	54
27...	1330	54	788	115	55
27...	1345	56	841	127	52
27...	1400	62	952	159	47
27...	1410	67	1050	190	47
27...	1425	62	1080	181	50
27...	1445	62	1020	171	61
27...	1510	65	1070	188	60
27...	1530	61	1020	168	64
27...	1545	58	1050	164	60
MAR					
21...	0850	103	2880	801	72
21...	0855	107	1340	387	55
21...	0930	98	2150	569	78
21...	1010	93	1630	409	78
21...	1025	84	904	205	64
21...	1035	84	875	198	65
21...	1050	80	816	176	65
21...	1055	84	748	170	63
21...	1115	82	771	171	65
21...	1135	75	664	134	65
21...	1150	75	574	116	61
21...	1205	75	822	166	70
21...	1220	71	840	161	70

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 years 1980 to current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
JAN							
23...	1240	13.0	.05	344	.05	61	76
27...	0945	10.5	.97	2550	6.7	--	65
27...	1025	10.5	.60	1080	1.7	--	--
27...	1130	10.5	.40	570	.62	--	--
27...	1240	10.5	.28	390	.29	--	--
27...	1410	--	.28	466	.35	--	--
FEB							
28...	1320	10.5	.02	41	.00	--	--
MAR							
25...	0900	12.5	4.5	1170	14	--	57
25...	0920	12.5	4.1	978	11	--	--
25...	0945	12.5	4.0	897	9.7	--	--
25...	1030	12.5	3.1	713	6.0	--	--
25...	1105	--	2.5	545	3.7	--	--
25...	1155	12.5	1.9	314	1.6	--	--
25...	1230	--	1.6	260	1.1	--	--
25...	1345	13.0	1.3	220	.77	--	--
25...	1555	13.0	.67	95	.17	--	--

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
JAN							
23...	90	98	100	--	--	--	--
27...	85	92	98	100	--	--	--
27...	--	--	--	96	--	--	--
27...	--	--	--	98	--	--	--
27...	--	--	--	90	--	--	--
27...	--	--	--	90	95	99	100
FEB							
28...	--	--	--	64	--	--	--
MAR							
25...	69	80	91	97	100	--	--
25...	--	--	--	95	--	--	--
25...	--	--	--	94	--	--	--
25...	--	--	--	95	--	--	--
25...	--	--	--	97	--	--	--
25...	--	--	--	97	--	--	--
25...	--	--	--	95	--	--	--
25...	--	--	--	93	100	--	--
25...	--	--	--	93	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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
SEP							
03...	1400	5	.00	5	11	19	28
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
SEP							
03...	35	42	52	63	80	97	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMESCAL CREEK BASIN--Continued
 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 October 1979 to September 1981 (discontinued).

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (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)
OCT , 1980									
21...	1130	.06	740	7.9	13.0	0	.72	.02	.74
JUN , 1981									
02...	1212	.06	750	8.1	15.5	6	.42	.01	.43
16...	1155	.04	740	8.2	19.4	1	.56	.01	.57
JUL									
08...	1004	.04	680	8.2	16.5	1	.55	.01	.56
28...	1030	.05	680	8.1	16.0	0	.49	.02	.51
AUG									
19...	1108	.04	660	8.3	14.5	8	.56	.01	.57
SEP									
16...	1041	.02	640	8.1	16.0	0	.69	.02	.71
29...	1240	.04	640	8.2	16.9	3	.43	.01	.44

DATE	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)	STATION	LOCAL IDENT- IFIER	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT , 1980							
21...	.23	.67	1.4	.10	.36	.92	.44
JUN , 1981							
02...	.14	.55	.98	.10	.66	.51	.41
16...	.08	.30	.87	.14	1.8	.76	.22
JUL							
08...	.09	.66	1.2	.14	--	.76	.57
28...	.16	.54	1.1	.11	1.9	1.0	.38
AUG							
19...	.11	.59	1.2	.15	--	.88	.48
SEP							
16...	.12	.79	1.5	.15	4.8	1.4	.67
29...	.07	.37	.81	.19	.78	.69	.30

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMESCAL CREEK BASIN
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 years 1980-81 (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 (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
JUL , 1981							
08...	1108	.00	710	8.1	22.5	57	4.9
28...	1102	.01	820	--	21.0	11	7.2
AUG							
19...	1200	.00	900	7.9	20.0	10	6.1
SEP							
16...	1131	--	880	7.5	21.0	15	6.1
29...	1333	.01	1080	7.8	21.4	0	5.3

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,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUL , 1981						
08...	.22	5.1	.37	7.00	12	.32
28...	.21	7.4	.15	2.50	9.9	.30
AUG						
19...	.17	6.3	.15	8.20	15	.28
SEP						
16...	.03	6.1	.13	3.80	9.9	.19
29...	.00	5.3	.04	2.10	7.4	.23

TEMESCAL CREEK AT THORNHILL BRANCH, AT OAKLAND, CA

LOCATION.--Lat 37°50'30", long 122°12'27", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--Water years 1979-81 (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 (UMHOS)	PH (UNITS)	TEMPER- ATURE (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)
MAY , 1981									
06...	1113	.03	810	7.7	11.5	3	.63	.00	.63
JUN									
02...	1250	--	630	7.7	21.0	424	2.4	.02	2.4
16...	1222	.02	880	7.7	17.2	3	.71	.01	.72
JUL									
08...	1029	.02	700	8.2	15.0	13	1.2	.02	1.2
28...	1041	.02	820	7.9	14.5	0	1.6	.02	1.6
AUG									
19...	1122	.02	800	8.2	14.5	5	2.5	.02	2.5
SEP									
16...	1055	.05	320	7.8	16.0	272	.42	.04	.46
23...	1013	.03	780	8.0	13.5	9	1.3	.01	1.3
29...	1257	.02	790	8.0	15.8	0	1.7	.02	1.7

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
MAY , 1981				
06...	.08	1.40	2.0	.11
JUN				
02...	--	--	--	--
16...	.07	.89	1.6	.23
JUL				
08...	.06	.99	2.1	.17
28...	.09	.75	2.4	.11
AUG				
19...	.04	1.50	4.0	.18
SEP				
16...	.18	1.70	2.2	--
23...	.13	.85	2.2	.10
29...	.11	1.40	3.1	.13

TEMESCAL CREEK BASIN--Continued
TEMESCAL CREEK AT PINEHAVEN BRANCH, AT OAKLAND, CA

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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 October 1979 to September 1981 (discontinued).
COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
MAY , 1981							
06...	1107	.01	1000	7.9	10.0	5	.27
JUN							
02...	1237	.02	960	7.8	15.0	4	.22
16...	1216	.00	1000	7.6	16.5	0	.25
JUL							
08...	1019	.01	930	8.1	16.0	39	.40
28...	1034	--	960	8.0	13.0	16	.22
AUG							
19...	1116	--	920	8.1	14.5	0	.15
SEP							
16...	1051	--	800	8.0	14.0	11	.25
23...	1007	.00	860	8.0	12.5	4	.28
29...	1255	.00	830	8.2	14.7	14	.18

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,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
MAY , 1981						
06...	.01	.28	.08	.69	.97	.16
JUN						
02...	.01	.23	.07	.63	.86	.18
16...	.01	.26	.09	.33	.59	.18
JUL						
08...	.02	.42	.13	.69	1.1	.24
28...	.02	.24	.18	.66	.90	.23
AUG						
19...	.01	.16	.18	.41	.57	.26
SEP						
16...	.02	.27	.21	.88	1.2	.22
23...	.01	.29	.11	.66	.95	.22
29...	.00	.18	.10	.69	.87	.25

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 years 1980-81 (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 (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT , 1980							
21...	1200	--	320	--	16.0	3	1.3
MAY , 1981							
06...	1143	.00	1200	7.6	13.0	13	--
JUL							
08...	1055	--	880	8.0	17.0	12	--
AUG							
19...	1149	--	840	7.9	15.0	12	--
SEP							
16...	1121	--	890	7.7	16.0	6	5.9
23...	1047	--	840	7.9	14.0	68	5.5
29...	1324	--	760	8.3	15.8	4	.26

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMESCAL CREEK BASIN--Continued
 TEMESCAL CREEK AT HEATHER RIDGE S, AT OAKLAND, CA

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,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT , 1980						
21...	.08	1.4	.33	1.10	2.5	.07
MAY , 1981						
06...	--	--	--	--	--	.10
JUL						
08...	.02	--	.12	3.50	--	.10
AUG						
19...	.08	--	.05	3.60	--	.17
SEP						
16...	.03	5.9	.08	2.70	8.6	.09
23...	.04	5.5	.14	2.20	7.7	.15
29...	.00	.26	.09	1.10	1.4	.10

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 1980-81 (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 (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT , 1980							
21...	1155	.02	750	8.8	16.0	1	.27
MAY , 1981							
06...	1135	.03	780	8.1	14.0	15	.32
JUL							
08...	1054	.01	800	8.3	18.0	5	.66
AUG							
19...	1143	.03	720	8.3	16.0	0	.31
SEP							
16...	1119	--	300	7.1	18.0	--	--
23...	1044	.01	710	8.3	16.5	13	.24
29...	1318	.02	910	8.0	17.0	13	5.2

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,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT , 1980						
21...	.00	.27	.23	.32	.59	.11
MAY , 1981						
06...	.01	.33	.09	--	--	.26
JUL						
08...	.01	.67	.10	.79	1.5	.13
AUG						
19...	.01	.32	.06	.51	.83	.12
SEP						
16...	--	--	.33	--	--	--
23...	.00	.24	.08	.84	1.1	.06
29...	.02	5.2	.09	1.20	6.4	.11

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMESCAL CREEK BASIN
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 years 1980-81 (discontinued).

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (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+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
MAY , 1981												
06...	1157	790	--	15.0	93	.59	.00	.59	.08	2.00	2.6	.13
JUN												
16...	1226	820	7.9	19.0	46	.67	.00	.67	.10	.77	1.4	.15
JUL												
08...	1121	780	8.0	17.0	26	.55	.01	.56	.11	1.60	2.2	.16
28...	1114	720	8.0	16.5	16	.58	.02	.60	.17	.71	1.3	.02
AUG												
19...	1211	720	8.1	16.0	0	.51	.01	.52	.07	.55	1.1	.04
SEP												
16...	1143	700	7.9	17.0	78	.50	.02	.52	.12	1.20	1.7	.07
23...	1109	720	8.0	16.0	4	.39	.00	.39	.11	.55	.94	.03

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 1979-81 (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 (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT , 1980							
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
JAN , 1981							
27...	1008	--	140	7.0	12.0	722	1.1
27...	1100	--	140	6.9	12.8	482	1.5
27...	1320	--	210	6.8	12.5	284	1.8
27...	1435	--	270	7.2	12.7	164	2.6
27...	1710	--	285	6.9	19.4	304	2.4
MAY							
06...	1051	.11	820	7.9	12.5	0	.65
12...	0635	.12	800	8.1	13.5	6	.47
12...	0730	--	820	7.9	13.2	1	.54
12...	0830	--	810	7.9	13.5	1	.53
12...	0930	--	820	7.9	14.0	0	.53
12...	1030	--	800	7.9	14.0	15	.59
12...	1130	--	830	8.1	14.0	0	.61
12...	1220	--	840	8.2	14.0	25	.57
12...	1350	--	820	8.5	15.5	1	.45
12...	1450	--	830	8.1	16.5	3	.41
12...	1540	--	860	8.4	17.0	1	.40
12...	1635	--	850	8.1	15.5	9	.40
12...	1730	--	860	8.3	15.0	13	.40
12...	1835	--	860	8.4	14.0	17	.29
15...	0605	.11	840	7.6	12.0	--	.32
15...	0910	--	800	7.7	13.0	--	.50
15...	1202	--	820	8.3	14.0	21	--
15...	1814	--	810	8.1	14.5	7	.66
JUN							
02...	1130	.07	760	7.9	15.0	1	.62
02...	1530	--	730	8.1	18.0	11	.63
16...	1127	.05	780	7.8	17.0	3	.54
JUL							
01...	0713	.03	740	8.0	14.5	16	.53
01...	0815	--	700	8.1	14.5	27	.55
01...	0900	.06	680	8.0	14.5	17	.56
01...	1000	--	690	7.9	15.0	18	.60

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMESCAL CREEK BASIN

TEMESCAL CREEK ABOVE HOLDING POND, AT OAKLAND--Continued

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, + MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT , 1980						
01...	.00	.64	.00	.49	1.1	.23
01...	.01	.88	.00	.59	1.5	.25
01...	.00	.69	.00	.49	1.2	.24
01...	.00	.69	.00	.72	1.4	.25
02...	.00	.44	.00	.65	1.1	.22
21...	.03	.76	.26	.71	1.5	.26
JAN , 1981						
27...	.03	1.1	.15	2.50	3.6	.30
27...	.03	1.5	.18	1.90	3.4	.24
27...	.02	1.8	.15	1.60	3.4	.44
27...	.04	2.6	.25	1.40	4.0	.27
27...	.03	2.4	.14	1.40	3.8	.41
MAY						
06...	.01	.66	.11	.77	1.4	.17
12...	.01	.48	.12	--	--	.19
12...	.01	.55	.13	.53	1.1	.19
12...	.01	.54	.13	.51	1.1	.19
12...	.01	.54	.13	.68	1.2	.19
12...	.01	.60	.14	.53	1.1	.23
12...	.03	.64	.16	.85	1.5	.21
12...	.02	.59	.14	.43	1.0	.20
12...	.00	.45	.13	.35	.80	.19
12...	.00	.41	.13	1.30	1.7	.19
12...	.00	.40	.13	.51	.91	.18
12...	.01	.41	.14	.53	.94	.04
12...	.01	.41	.15	.59	1.0	.18
12...	.01	.30	.17	1.40	1.7	.20
15...	.01	.33	.09	1.00	1.3	.17
15...	.01	.51	.10	1.10	1.6	.23
15...	--	--	--	--	--	--
15...	.02	.68	.09	.72	1.4	.21
JUN						
02...	.01	.63	.15	.67	1.3	.24
02...	.02	.65	.17	.84	1.5	.23
16...	.01	.55	.10	.42	.97	--
JUL						
01...	.02	.55	.11	.96	1.5	.31
01...	.02	.57	.10	.89	1.5	.30
01...	.02	.58	.09	1.10	1.7	.32
01...	.03	.63	.12	1.00	1.6	.32

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMESCAL CREEK BASIN

TEMESCAL CREEK ABOVE HOLDING POND, AT OAKLAND--Continued

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
JUL , 1981							
01...	1100	--	680	8.1	15.5	22	.71
01...	1150	--	680	8.0	16.5	14	.80
08...	0939	.05	830	8.1	16.0	6	.68
13...	0919	.03	800	8.1	15.0	0	.85
13...	1000	--	800	8.1	15.0	0	.62
13...	1100	--	800	8.1	16.0	0	.53
13...	1312	--	810	7.1	17.8	11	.60
28...	1000	.06	840	7.9	14.5	0	.45
AUG							
04...	0910	.05	800	8.1	15.0	8	.80
04...	1001	--	800	8.1	15.0	10	.81
04...	1050	--	820	8.1	16.0	4	.96
04...	1151	--	840	8.1	16.5	8	.70
19...	0920	.07	800	8.2	15.5	0	.72
24...	1012	.05	810	7.8	16.0	6	1.3
24...	1106	--	800	7.8	16.0	13	1.0
24...	1142	--	800	7.9	16.0	65	1.0
24...	1234	--	800	7.7	16.5	15	1.7
27...	1005	.03	820	8.0	15.0	6	.95
27...	1055	--	850	8.0	16.0	3	.94
27...	1142	--	820	7.9	16.0	3	1.1
27...	1214	--	840	7.9	17.0	3	1.0
SEP							
09...	0609	--	800	7.6	14.0	5	.76
09...	0844	.03	760	7.7	14.5	16	.62
09...	1027	.03	760	7.7	15.0	54	.63
09...	1225	.03	680	7.6	15.0	13	.85
09...	1428	--	700	7.8	16.0	4	.77
09...	1625	.03	670	7.9	16.5	0	.68
09...	1800	.03	610	7.8	16.2	2	.60
09...	2000	.05	730	7.7	15.0	1	.66
09...	2202	.06	750	7.9	14.6	0	.95
10...	0002	.06	700	7.8	13.9	3	1.2
10...	0355	.03	790	7.9	14.0	0	1.0
10...	0600	.04	765	8.0	13.0	0	.80
10...	0800	.03	780	8.0	14.0	0	.81
10...	1000	.04	783	7.9	18.0	1	.73
10...	1155	--	780	8.1	18.5	0	.79
16...	1017	.06	790	7.9	16.0	0	.63
23...	0956	.05	900	7.9	14.5	9	.84

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMESCAL CREEK BASIN

TEMESCAL CREEK ABOVE HOLDING POND, AT OAKLAND--Continued

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,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUL , 1981						
01...	.03	.74	.14	1.10	1.8	.36
01...	.02	.82	.13	1.00	1.8	.36
08...	.02	.70	.08	.88	1.6	.32
13...	.02	.87	.11	1.00	1.9	.32
13...	.02	.64	.12	1.00	1.6	.33
13...	.04	.57	.10	.68	1.2	.33
13...	.05	.65	.06	.82	1.5	.38
28...	.02	.47	.15	.86	1.3	.24
AUG						
04...	.06	.86	.22	.94	1.8	.23
04...	.05	.86	.22	.85	1.7	.23
04...	.04	1.0	.18	.64	1.6	.23
04...	.04	.74	.20	.72	1.5	.23
19...	.02	.74	.07	.81	1.6	.27
24...	.10	1.4	.22	.78	2.2	.25
24...	.08	1.1	.17	.53	1.6	.24
24...	.07	1.1	.16	1.10	2.2	.30
24...	.05	1.8	.16	.82	2.6	.23
27...	.05	1.0	.11	.71	1.7	.26
27...	.06	1.0	.12	1.40	2.4	.26
27...	.08	1.2	.15	1.50	2.7	.27
27...	.09	1.1	.19	.95	2.1	.28
SEP						
09...	.01	.77	.10	1.20	2.0	.35
09...	.01	.63	.09	1.10	1.7	.35
09...	.01	.64	.10	1.20	1.8	.36
09...	.02	.87	.12	.95	1.8	.39
09...	.01	.78	.08	1.30	2.1	.40
09...	.02	.70	.12	.53	1.2	.46
09...	.01	.61	.08	.86	1.5	.41
09...	.01	.67	.08	.80	1.5	.41
09...	.05	1.0	.12	.42	1.4	.44
10...	.04	1.2	.08	.92	2.1	.41
10...	.00	1.0	<.06	.63	1.7	.36
10...	.02	.82	.07	.77	1.6	.36
10...	.03	.84	.11	.59	1.4	.34
10...	.03	.76	.11	.98	1.7	2.00
10...	.03	.82	.12	.65	1.5	.35
16...	.04	.67	.16	1.00	1.7	.29
23...	.02	.86	.10	.76	1.6	.37

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,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
SEP , 1981						
29...	.06	.68	.21	1.00	1.7	.41

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMESCAL CREEK BASIN
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 years 1980-81 (discontinued).

COOPERATION.-- Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE (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)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)
OCT , 1980								
01...	0745	725	7.6	16.0	7	.55	.02	.57
01...	0805	735	7.5	16.0	10	.50	.01	.51
01...	1140	720	7.7	20.5	7	.51	.01	.52
01...	1150	740	8.0	18.0	22	.51	.02	.53
01...	1555	750	7.9	18.0	24	.47	.01	.48
01...	1605	840	8.0	19.0	7	.46	.02	.48
01...	2050	730	8.0	18.0	4	.50	.01	.51
01...	2100	725	7.9	17.0	9	.46	.01	.47
02...	0050	740	--	16.0	34	.46	.01	.47
02...	0105	740	--	16.5	0	.49	.01	.50
21...	1035	790	7.7	14.0	17	.39	.03	.42
MAY , 1981								
06...	1048	760	7.8	15.0	12	--	--	--
JUN								
02...	1122	710	8.3	19.5	12	.00	.01	.00
16...	1116	660	8.6	22.0	14	.02	.00	.02
JUL								
08...	0931	680	8.1	19.5	7	.21	.03	.24
28...	0952	800	7.7	18.0	7	.17	.02	.19
AUG								
19...	0929	800	7.8	17.0	17	.12	.01	.13
SEP								
16...	1012	760	8.2	18.0	4	--	.03	<.10
23...	0951	760	8.0	16.3	7	.04	.01	.05
29...	1132	790	7.6	17.8	2	.04	.01	.05

DATE	NITROGEN, AMMONIA 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 , 1980				
01...	.02	.94	1.5	.22
01...	.05	.56	1.1	.22
01...	.01	.77	1.3	.22
01...	.02	.78	1.3	.23
01...	.10	1.10	1.6	.22
01...	.00	.88	1.4	.21
01...	.00	1.40	1.9	.20
01...	.00	.69	1.2	.22
02...	.04	1.30	1.8	.34
02...	.00	.67	1.2	.21
21...	.26	1.10	1.5	.21
MAY , 1981				
06...	.11	.71	--	.19
JUN				
02...	.28	1.90	1.9	.22
16...	.07	1.90	1.9	.23
JUL				
08...	.14	1.20	1.4	.21
28...	.21	1.30	1.5	.24
AUG				
19...	.16	.70	.83	.20
SEP				
16...	.14	1.50	--	-
23...	.13	1.20	1.3	.23
29...	.13	1.90	2.0	.36

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 1979-81 (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 (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
OCT , 1980							
01...	0825	.09	710	7.6	16.0	14	.52
01...	1210	.08	750	7.8	18.5	6	.51
01...	1537	.08	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
JAN , 1981							
27...	1006	--	120	6.9	12.0	610	.98
27...	1102	--	130	6.9	13.7	428	1.4
27...	1323	--	180	7.1	12.0	282	1.9
27...	1437	--	240	7.2	12.9	170	2.3
27...	1715	--	220	7.0	12.0	252	1.9
MAY							
06...	1040	.11	800	7.6	12.0	9	--
12...	1039	--	820	7.3	16.0	8	.31
12...	1232	--	790	6.9	17.5	11	.30
12...	1435	--	790	7.8	19.0	5	.29
12...	1640	--	800	8.0	18.5	18	.29
12...	1825	--	780	8.1	17.5	14	.43
15...	0616	--	780	7.7	15.0	--	.20
15...	1400	--	740	7.8	17.0	--	.18
15...	1600	--	790	7.9	17.0	8	.17
15...	1700	--	760	7.9	17.0	8	.16
15...	1800	--	750	8.0	17.0	10	--
JUN							
02...	1119	--	700	8.1	19.0	10	.00
16...	1112	--	660	8.5	22.0	10	.00
JUL							
01...	0730	--	660	8.9	16.0	14	.04
01...	0825	--	670	8.1	16.5	8	.05
01...	0910	--	660	8.1	17.0	2	.02
01...	1005	--	660	8.3	17.5	11	.02
01...	1110	--	640	8.7	19.0	12	.02
01...	1159	--	640	8.6	20.0	11	.02
08...	0927	--	700	8.0	20.0	14	.38
13...	0930	--	720	8.2	19.5	4	.11
13...	1010	--	720	8.3	20.0	2	.05
13...	1113	--	720	8.4	21.5	3	.41
13...	1318	--	700	8.1	21.5	1	.19
28...	0949	--	800	7.9	18.0	2	.20

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMESCAL CREEK BASIN--Continued

TEMESCAL CREEK BELOW HOLDING POND, AT OAKLAND, CA--Continued

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,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT , 1980						
01...	.02	.54	.07	1.10	1.6	.23
01...	.02	.53	.00	1.00	1.5	.22
01...	.01	.49	.00	.88	1.4	.21
01...	.01	.50	.00	.72	1.2	.21
01...	.01	.49	.01	.78	1.3	.22
21...	.02	.39	.26	1.00	1.4	.21
JAN , 1981						
27...	.12	1.1	.43	2.20	3.3	.24
27...	.03	1.4	.20	1.70	3.1	.51
27...	.06	2.0	.25	.84	2.8	.24
27...	.04	2.3	.25	1.30	3.6	.23
27...	.03	1.9	.13	1.50	3.4	.34
MAY						
06...	-	--	.10	.76	--	.17
12...	.01	.32	.18	.71	1.0	.24
12...	.01	.31	.17	.85	1.2	.21
12...	.01	.30	.17	.69	.99	.21
12...	.01	.30	.16	.62	.92	.04
12...	.01	.44	.15	1.40	1.8	.20
15...	.01	.21	.12	1.60	1.8	.17
15...	.01	.19	.08	.76	.95	.16
15...	.01	.18	.07	1.00	1.2	.16
15...	.01	.17	.07	.68	.85	.14
15...	--	--	--	--	--	--
JUN						
02...	.01	.01	.10	1.10	1.1	.21
16...	.01	.01	.06	1.80	1.8	.23
JUL						
01...	.01	.05	.06	1.40	1.5	.26
01...	.01	.06	.07	1.20	1.3	.23
01...	.01	.03	.06	1.70	1.7	.27
01...	.00	.02	.07	3.20	3.2	.44
01...	.01	.03	.08	2.70	2.7	.29
01...	.01	.03	.07	2.00	2.0	.30
08...	.03	.41	.10	1.30	1.7	.23
13...	.00	.11	.05	1.40	1.5	.25
13...	.00	.05	.08	1.30	1.4	.22
13...	.05	.46	.06	1.60	2.1	.31
13...	.04	.23	.04	1.30	1.5	.20
28...	.02	.22	.18	.87	1.1	.20

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMESCAL CREEK BASIN

TEMESCAL CREEK BELOW HOLDING POND, AT OAKLAND--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (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,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
AUG , 1981												
04...	0919	780	8.5	16.0	11	.09	.02	.11	.14	.97	1.1	.16
04...	1006	780	8.4	16.5	15	.10	.02	.12	.14	1.10	1.2	.18
04...	1055	840	8.5	17.0	9	.15	.02	.17	.13	.90	1.1	.13
04...	1157	800	8.6	18.5	11	.47	.03	.50	.12	.96	1.5	.12
19...	0933	820	7.9	17.0	0	.14	.01	.15	.16	.84	.99	.21
24...	1002	800	7.7	18.0	11	.33	.04	.37	.19	.91	1.3	.13
24...	1055	780	7.8	19.0	10	.85	.04	.89	.20	.60	1.5	.12
24...	1132	790	7.8	20.0	10	.38	.04	.42	.20	.69	1.1	.12
24...	1224	800	7.9	21.0	9	.36	.04	.40	.17	.83	1.2	.12
27...	0956	740	8.1	19.0	13	.44	.02	.46	.08	.86	1.3	.21
27...	1045	780	8.0	20.0	7	.26	.02	.28	.07	.98	1.3	.20
27...	1134	740	8.1	21.0	5	.28	.02	.30	.05	1.00	1.3	.20
27...	1203	760	8.1	22.0	1	.16	.02	.18	.05	.70	.88	.21
SEP												
09...	0622	740	8.0	16.0	44	.18	.02	.20	.11	1.50	1.7	.23
09...	0903	740	7.8	16.0	4	.21	.02	.23	.09	1.40	1.6	.24
09...	1017	740	7.9	16.5	34	.22	.02	.24	.07	1.80	2.0	.27
09...	1214	740	8.0	17.0	2	.20	.02	.22	.09	1.60	1.8	.27
09...	1418	740	8.3	19.0	15	.16	.02	.18	.08	1.75	2.0	.29
09...	1635	720	8.5	17.5	0	.12	.03	.15	.11	.80	.95	.29
09...	1805	710	8.5	17.3	3	.13	.02	.15	.11	1.60	1.8	.26
09...	2010	730	8.3	15.7	0	.14	.02	.16	.10	1.40	1.6	.25
09...	2210	740	8.3	15.7	6	.17	.02	.19	.11	1.10	1.3	.25
10...	0007	740	8.2	15.0	1	.18	.02	.20	.10	1.00	1.2	.25
10...	0407	750	8.2	15.0	0	.25	.02	.27	.14	1.30	1.6	.22
10...	0610	725	8.1	15.0	0	.19	.02	.21	.15	1.30	1.5	.26
10...	0810	705	7.9	15.0	0	.19	.02	.21	.15	1.40	1.6	.27
10...	1010	760	8.2	19.0	7	.20	.02	.22	.12	1.10	1.3	.27
10...	1205	760	8.3	20.0	0	.18	.02	.20	.10	1.60	1.8	.27
16...	1009	760	8.2	17.5	4	--	.03	<.10	.13	2.10	--	.29
23...	0947	760	8.0	16.2	28	.05	.01	.06	.09	1.20	1.3	.21
29...	1130	700	7.7	17.8	9	.00	.01	.01	.18	2.70	2.7	.46

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
SEP , 1981							
29...	1141	.03	830	8.0	16.2	0	.62

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMESCAL CREEK BASIN--Continued
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 1979-81 (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 (UMMOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (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)
OCT , 1980									
21...	1140	.01	660	8.5	13.0	2	.00	.000	.00
MAY , 1981									
06...	1122	.01	710	7.7	12.0	88	.08	.020	.10
JUL									
08...	1039	.00	700	8.1	15.5	217	.15	.010	.16
28...	1048	.01	680	8.0	14.5	624	.10	.020	.12
AUG									
19...	1133	--	660	8.0	14.0	141	.03	.010	.04
SEP									
16...	1107	--	600	7.9	15.0	608	.12	.050	.17
23...	1035	--	640	8.1	13.0	646	.11	.050	.16
29...	1307	--	630	8.1	15.3	5	.06	.010	.07

DATE	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)
OCT , 1980				
21...	.220	.58	.58	.240
MAY , 1981				
06...	.080	.74	.84	.290
JUL				
08...	.060	1.90	2.1	.560
28...	.070	--	--	.300
AUG				
19...	.080	2.00	2.0	.500
SEP				
16...	.090	--	--	--
23...	.140	4.90	5.1	.940
29...	.120	.90	.97	.350

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMESCAL CREEK BASIN--Continued
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 1979-81 (discontinued).

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (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,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT , 1980												
21...	0950	925	8.3	16.0	4	.00	.00	.00	.08	.86	.86	.12
MAY , 1981												
06...	0930	680	7.9	18.5	0	.20	.04	.24	.12	.62	.86	.05
JUN												
02...	1017	680	8.5	21.5	2	.02	.01	.03	.10	1.30	1.3	.06
16...	1030	680	8.5	23.0	8	.00	.00	.00	.05	1.10	1.1	.17
JUL												
01...	0745	700	7.8	22.0	2	.01	.01	.02	.20	1.70	1.7	.07
01...	0920	690	7.9	22.0	0	.02	.01	.03	.21	1.00	1.0	.08
01...	1210	700	7.8	24.0	1	.01	.01	.02	.23	1.10	1.1	.08
08...	0907	720	8.1	23.0	3	.16	.01	.17	.20	1.00	1.2	.09
13...	0940	690	8.4	23.0	3	.06	.00	.06	.07	1.10	1.2	.10
13...	1020	690	8.8	23.0	1	.19	.06	.25	.07	1.00	1.2	.10
13...	1330	690	7.7	24.0	1	.01	.04	.05	.07	1.20	1.2	.11
28...	0910	720	8.2	19.5	5	.07	.02	.09	.10	.85	.94	.10
AUG												
04...	0942	720	8.4	20.6	11	.23	.02	.25	.19	1.00	1.3	.10
04...	1015	700	8.4	20.0	12	.51	.03	.54	.15	.96	1.5	.10
04...	1103	720	8.4	20.5	9	.67	.02	.69	.17	1.00	1.7	.12
04...	1204	720	8.5	22.0	17	.57	.02	.59	.16	1.00	1.6	.10
19...	1001	720	8.3	20.0	3	.05	.01	.06	.16	1.00	1.1	.14
24...	0932	720	8.4	20.0	13	.19	.02	.21	.20	1.40	1.6	.06
24...	1029	720	8.2	21.0	20	.56	.03	.59	.24	1.40	2.0	.06
24...	1117	720	8.2	21.0	11	.13	.02	.15	.24	1.50	1.7	.05
24...	1212	720	8.3	22.0	9	.30	.02	.32	.24	1.50	1.8	.06
27...	0921	700	8.6	21.5	8	.08	.00	.08	.09	1.30	1.4	.12
27...	1015	700	8.7	22.0	13	.15	.00	.15	.05	1.30	1.5	.11
27...	1125	700	8.4	23.0	9	.15	.01	.16	.08	1.40	1.6	.11
27...	1153	720	8.3	22.0	6	.30	.00	.30	.10	1.70	2.0	.11
SEP												
16...	0935	640	8.0	20.5	0	--	.03	<.10	.26	1.30	--	.13
23...	0930	720	7.8	19.9	0	.01	.01	.02	.47	1.40	1.4	.16
29...	1100	710	7.8	19.5	0	.02	.02	.04	.72	1.20	1.4	.28

TEMESCAL CREEK BASIN
CALDECOTT CREEK POND AT PARKWOOD APARTMENTS, AT OAKLAND, CA

473

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 1981 (discontinued).

COOPERATION.--Chemical-quality samples were collected by East Bay Regional Park District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (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)
OCT , 1980									
21...	1110	--	240	8.5	15.0	5	.00	.00	.00
MAY , 1981									
06...	1011	.06	910	8.1	15.0	10	--	--	--
JUN									
16...	1250	--	320	8.1	23.0	13	.15	.01	.16
JUL									
28...	1129	--	220	8.1	19.5	3	.07	.02	.09

DATE	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)	STATION	LOCAL IDENT- IFIER	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT , 1980							
21...	.20	.78	.78	.18			.58
MAY , 1981							
06...	.08	--	--	.07			--
JUN							
16...	.08	.48	.64	.06			.40
JUL							
28...	.17	.87	.96	.05			.70

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

LAKE MERRITT BASIN

OAKLAND HARBOR ESTUARY

LOCATION.--Lat 37°47'22", long 122°15'55" in Oakland, Alameda County, Hydrologic Unit 18050004.

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

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

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDEd (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT , 1980							
06...	1500	4.50	46400	8.5	20.8	46	.14
14...	1600	6.00	45400	8.6	18.7	31	.15
20...	1600	4.00	43700	8.6	18.7	29	.00
27...	1530	7.00	43700	8.6	16.5	35	.15
NOV							
03...	1600	4.00	43100	8.4	17.4	41	.01
DEC							
15...	1500	4.00	43600	7.9	10.6	14	.50
JAN , 1981							
13...	1200	4.00	40300	7.9	10.8	36	.42
FEB							
04...	1530	4.00	56400	7.8	12.0	39	.55
MAR							
05...	1500	4.00	41000	8.0	13.1	31	.28
APR							
08...	1430	5.00	36500	8.3	16.2	38	.09
16...	1430	4.00	39700	8.1	17.1	43	.11
22...	1500	5.00	40100	8.1	16.6	24	.20
29...	1600	3.00	40700	8.1	20.8	27	.00
MAY							
06...	1500	5.00	41600	8.1	17.8	37	.09
13...	1530	4.00	38300	--	20.2	67	.01
19...	1530	5.00	40200	7.8	17.9	32	.10
27...	1530	4.00	41200	8.1	20.3	22	.13
JUN							
02...	1400	6.00	44600	7.9	19.3	45	.08
10...	1530	4.00	44900	8.4	22.1	26	.12
17...	1500	6.00	41000	8.4	21.1	18	.03
24...	1415	5.00	45600	9.0	22.5	31	.06
JUL							
01...	1430	6.00	44000	7.8	21.1	39	.10
08...	1430	4.00	39900	8.1	22.2	43	.17
15...	1500	6.00	47800	7.7	21.9	31	.09
22...	1400	5.00	47000	7.9	21.0	56	.08
29...	1430	6.00	48600	7.6	20.5	42	.19
AUG							
07...	1430	5.00	46200	7.8	20.8	45	.14
13...	1430	5.00	47500	7.8	21.0	25	.08
19...	1300	5.00	47600	7.8	20.8	21	.09
26...	1500	5.00	46100	7.9	21.7	35	.13

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

LAKE MERRITT BASIN

OAKLAND HARBOR ESTUARY

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT , 1980						
06...	.12	.38	.50	.64	.30	.25
14...	.09	.45	.54	.69	.30	.26
20...	.06	.94	1.00	1.0	.41	.43
27...	.12	.42	.54	.69	.47	.28
NOV						
03...	.05	1.2	1.20	1.2	.31	.22
DEC						
15...	.24	.61	.85	1.4	.39	.33
JAN , 1981						
13...	.17	.47	.64	1.1	.20	.23
FEB						
04...	.26	.43	.69	1.2	.29	.24
MAR						
05...	.11	.42	.53	.81	.26	.17
APR						
08...	.04	.62	.66	.75	.25	.17
16...	.14	.36	.50	.61	.27	.25
22...	.14	.45	.59	.79	.22	.22
29...	.09	.41	.50	.50	.19	.14
MAY						
06...	.11	.37	.48	.57	.23	.27
13...	.08	.49	.57	.58	.34	.11
19...	.17	.38	.55	.65	.23	--
27...	.13	.57	.70	.83	.24	.06
JUN						
02...	.14	.50	.64	.72	.27	.34
10...	.11	.47	.58	.70	.29	--
17...	.14	.38	.52	.55	.24	.24
24...	.06	.65	.71	.77	.28	.30
JUL						
01...	.18	.92	1.10	1.2	.25	.20
08...	.12	.70	.82	.99	.29	.02
15...	.18	.54	.72	.81	.27	.31
22...	.16	.59	.75	.83	.34	.27
29...	.19	.46	.65	.84	.23	.23
AUG						
07...	.18	.78	.96	1.1	.30	.26
13...	.19	.41	.60	.68	.27	.26
19...	.15	.58	.73	.82	.28	.27
26...	.18	.71	.89	1.0	.27	.21

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

LAKE MERRITT BASIN
LAKE MERRITT AT LAKE CENTER

LOCATION.--Lat. 37°48'07", long 122°15'27", in San Antonio (V and D Peralta) Grant, Alameda County, Hydrologic Unit 18050002.

PERIOD OF RECORD.--1981 water year.

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

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT , 1980							
06...	1030	4.50	45100	8.6	21.7	40	.00
14...	1200	4.00	43900	8.8	18.6	34	.00
20...	1400	4.50	43900	8.9	17.9	40	.00
27...	1100	4.50	43200	8.8	16.8	37	.00
NOV							
03...	1200	5.00	43100	8.1	16.3	35	.01
DEC							
15...	1100	4.00	39800	7.9	10.4	16	.32
JAN , 1981							
13...	1500	5.00	41900	8.3	10.7	36	.48
FEB							
04...	1130	4.00	42100	7.4	12.7	35	.65
MAR							
05...	1130	4.00	28200	8.0	13.1	17	.11
APR							
08...	1130	3.50	33700	8.3	18.2	23	.01
16...	1130	4.00	36900	8.3	18.5	45	.02
22...	1030	4.00	38100	8.1	17.9	28	.06
29...	1200	4.00	39500	8.1	19.4	36	--
MAY							
06...	1230	4.00	39700	8.1	20.0	27	.03
13...	1200	4.00	39400	--	21.2	67	.06
19...	1030	4.00	36900	8.4	19.2	31	.02
27...	1230	4.00	39400	8.6	22.3	13	.01
JUN							
02...	1100	4.00	43200	8.5	20.9	21	.00
10...	1300	4.00	44400	9.0	22.7	22	.05
17...	1152	4.00	40100	8.9	23.4	28	.02
24...	1200	4.00	44300	9.1	25.6	26	.02
JUL							
01...	1230	4.00	42700	8.5	23.8	41	.03
08...	1200	4.00	38900	8.5	24.6	32	.07
15...	1300	5.00	46000	8.2	23.3	28	.03
22...	1130	4.00	45100	8.2	21.8	55	.01
29...	1200	4.00	46900	8.9	22.0	54	.11
AUG							
07...	1100	4.00	46100	8.3	22.2	40	.00
13...	1130	4.00	45300	8.0	21.9	31	.00
19...	1100	4.00	46600	8.0	20.8	36	.02
26...	1100	3.00	45100	8.2	22.4	40	.00

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

LAKE MERRITT BASIN

LAKE MERRITT AT LAKE CENTER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT , 1980						
06...	.04	.61	.65	.65	.20	.05
14...	.05	1.2	1.20	1.2	.25	.11
20...	.06	.94	1.00	1.0	.24	.02
27...	.02	.71	.73	.73	.39	.16
NOV						
03...	.05	1.3	1.30	1.3	.30	.19
DEC						
15...	.19	.81	1.00	1.3	.27	.21
JAN , 1981						
13...	.19	.46	.65	1.1	.22	.26
FEB						
04...	.41	.54	.95	1.6	.36	.29
MAR						
05...	.05	.78	.83	.94	.37	.26
APR						
08...	.02	1.2	1.20	1.2	.34	.23
16...	.05	.56	.61	.63	.24	.22
22...	.06	1.0	1.10	1.2	.20	.18
29...	.05	.44	.49	--	.18	.12
MAY						
06...	.07	.44	.51	.54	.17	.24
13...	.10	--	--	--	.31	.00
19...	.13	.40	.53	.55	.20	.13
27...	.06	.62	.68	.69	.23	.07
JUN						
02...	.07	.73	.80	.80	.27	.28
10...	.11	.84	.95	1.0	.30	--
17...	.10	.41	.51	.53	.27	--
24...	.03	.81	.84	.86	.35	.32
JUL						
01...	.08	.89	.97	1.0	.47	.47
08...	.09	.84	.93	1.0	.52	.57
15...	.13	.69	.82	.85	.48	.43
22...	.06	.75	.81	.82	.41	.35
29...	.16	.56	.72	.83	.32	.28
AUG						
07...	.08	.92	1.00	1.0	.33	.24
13...	.12	.98	1.10	1.1	.31	.26
19...	.08	.78	.86	.88	.29	.18
26...	.07	.83	.90	.90	.24	.14

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

LAKE MERRITT BASIN

LAKE MERRITT AT GLEN ECHO ARM

LOCATION.--Lat 37°48'52", long 122°15'37" in Oakland, Alameda County, Hydrologic Unit 18050004.

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

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

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT , 1980							
06...	1130	4.50	45600	8.5	21.2	37	.00
14...	1100	5.00	44100	8.7	18.5	46	.00
20...	1300	5.00	44000	8.9	17.5	34	.00
27...	1200	5.00	43000	9.0	16.9	34	.00
NOV							
03...	1400	3.50	43200	8.6	16.3	25	.00
DEC							
15...	1200	4.00	39200	7.9	11.4	17	.33
JAN , 1981							
13...	1100	5.00	39800	8.1	10.7	47	.39
FEB							
04...	1030	5.00	44500	7.4	13.4	31	.40
MAR							
05...	1045	4.00	29300	7.9	13.0	13	.10
APR							
08...	1030	4.00	33600	8.3	18.4	45	.02
16...	1100	5.00	36900	8.3	18.7	39	.02
22...	1100	4.00	37800	8.1	18.5	48	.01
29...	1330	4.00	40900	8.1	20.3	34	.07
MAY							
06...	1200	4.00	41000	8.2	19.7	39	.04
13...	1130	5.00	39100	8.2	21.6	74	.06
19...	1330	4.00	38100	8.2	20.1	--	.03
27...	1200	5.00	38500	8.5	22.5	23	.01
JUN							
02...	1030	4.00	42400	8.5	21.0	34	.00
10...	1130	5.00	43000	9.1	24.3	30	.02
17...	1130	4.00	38600	9.1	23.9	27	.00
24...	1100	4.00	43000	9.0	25.3	26	.03
JUL							
01...	1130	4.00	42100	8.7	23.5	33	.02
08...	1130	4.00	40200	8.6	24.3	23	.08
15...	1330	4.00	45500	7.9	24.3	34	.02
22...	1030	5.00	45200	8.0	21.6	54	.00
29...	1130	4.00	44600	8.8	22.2	46	.09
AUG							
07...	1030	4.00	46400	8.3	21.8	42	.00
13...	1200	5.00	45500	8.0	22.1	25	.00
19...	1000	5.00	48100	8.0	21.4	44	.03
26...	1200	4.00	45100	8.1	22.7	48	.01

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

LAKE MERRIT BASIN

LAKE MERRITT AT GLEN ECHO ARM

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT , 1980						
06...	.02	.65	.67	.67	.22	.08
14...	.06	1.4	1.50	1.5	.25	.11
20...	.02	1.1	1.10	1.1	.25	.09
27...	.02	.72	.74	.74	.39	.17
NOV						
03...	.05	1.3	1.30	1.3	.28	.18
DEC						
15...	.18	.92	1.10	1.4	.55	.22
JAN , 1981						
13...	.14	.96	1.10	1.5	.21	.23
FEB						
04...	.57	.73	1.30	1.7	.43	.35
MAR						
05...	.06	.73	.79	.89	.39	.27
APR						
08...	.05	1.9	1.90	1.9	.46	.30
16...	.04	.47	.51	.53	.24	.22
22...	.04	.60	.64	.65	.20	.17
29...	.06	.72	.78	.85	.16	.01
MAY						
06...	.07	.70	.77	.81	.19	..
13...	.10	.62	.72	.78	.35	.03
19...	.12	.42	.54	.57	.20	.12
27...	.05	.88	.93	.94	.20	.06
JUN						
02...	.07	.65	.72	.72	.28	.37
10...	.06	.61	.67	.69	.31	--
17...	.08	.66	.74	.74	.27	--
24...	.03	.75	.78	.81	.34	.37
JUL						
01...	.07	.79	.86	.88	.45	.46
08...	.08	.83	.91	.99	.52	.47
15...	.10	.70	.80	.82	.50	.50
22...	.06	.69	.75	.75	.40	.34
29...	.07	.66	.73	.82	.33	.27
AUG						
07...	.11	1.3	1.40	1.4	.36	.23
13...	.12	1.2	1.30	1.3	.34	.23
19...	.09	.85	.94	.97	.31	.19
26...	.07	1.0	1.10	1.1	.24	.17

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

LAKE MERRITT BASIN

LAKE MERRITT AT TRESTLE GLEN ARM

LOCATION.--Lat 37°48'19", long 122°15'08" in Oakland, Alameda County, Hydrologic Unit 18050004.

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

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

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SAM- PLING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT , 1980							
06...	1000	2.00	44800	8.3	21.5	47	.00
14...	1300	3.00	44000	8.9	19.0	31	.00
20...	1130	4.00	43800	8.7	17.6	34	.00
27...	1300	3.00	43200	9.0	17.7	34	.00
NOV							
03...	1100	3.00	42900	8.2	16.7	26	.00
DEC							
15...	1030	2.50	39400	7.8	10.7	10	.32
JAN , 1981							
13...	1230	2.00	39500	7.9	11.4	24	.36
FEB							
04...	1300	2.50	29300	7.4	13.7	24	.74
MAR							
05...	1245	2.00	26500	7.9	12.9	5	.18
APR							
08...	1230	2.50	32200	8.3	18.8	24	.00
16...	1230	3.00	36700	8.3	19.6	--	.02
22...	1130	2.00	37200	8.1	20.3	27	.02
29...	1100	4.00	39400	7.9	20.8	36	.02
MAY							
06...	1300	2.00	39900	8.0	21.2	32	.03
13...	1330	2.00	39100	--	22.8	45	.06
19...	1200	2.00	34600	8.1	19.8	66	.11
27...	1300	2.00	38300	8.8	23.7	26	.01
JUN							
02...	1130	2.00	42100	9.0	21.6	31	.00
10...	1330	2.00	42500	9.8	25.8	27	.01
17...	1300	2.00	39700	9.8	26.4	31	.00
24...	1300	2.00	43500	9.7	26.7	21	.02
JUL							
01...	1300	2.00	41000	9.5	23.6	35	.03
08...	1300	3.00	39200	9.4	25.0	28	.04
15...	1130	3.00	44900	8.7	24.8	9	.03
22...	1230	2.00	44700	8.1	23.4	52	.01
29...	1000	2.00	46400	8.1	22.7	35	.13
AUG							
07...	1300	2.00	45800	8.3	24.4	44	.00
13...	1100	2.00	44600	8.0	22.3	32	.00
19...	1130	2.00	46300	8.0	20.9	23	.01
26...	1130	2.00	44900	8.1	23.4	42	.02

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

LAKE MERRITT BASIN

LAKE MERRITT AT TRESTLE GLEN ARM

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L S 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 , 1980						
06...	.02	.65	.67	.67	.21	.05
14...	.04	1.1	1.10	1.1	.23	.10
20...	.04	.71	.75	.75	.26	.08
27...	.06	.67	.73	.73	.38	.15
NOV						
03...	.03	1.2	1.20	1.2	.27	.19
DEC						
15...	.19	.78	.97	1.3	.26	.22
JAN , 1981						
13...	.18	.55	.73	1.1	.21	.22
FEB						
04...	.54	.66	1.20	1.9	.38	.30
MAR						
05...	.07	.83	.90	1.1	.37	.25
APR						
08...	.01	.73	.74	.74	.36	.24
16...	.05	.48	.53	.55	.25	.21
22...	.05	.65	.70	.72	.20	.17
29...	.06	.55	.61	.63	.16	.10
MAY						
06...	.08	.39	.47	.50	.18	.23
13...	.10	.86	.96	1.0	.30	.00
19...	.12	.98	1.10	1.2	.22	.13
27...	.06	--	--	--	.22	.05
JUN						
02...	.06	.72	.78	.78	.27	.24
10...	.04	.57	.61	.62	.29	--
17...	.07	.55	.62	.62	.29	--
24...	.03	.68	.71	.73	.34	.29
JUL						
01...	.09	.77	.86	.89	.49	.46
08...	.07	.75	.82	.86	.54	.56
15...	.09	.69	.78	.81	.60	.64
22...	.05	.90	.95	.96	.48	.43
29...	-	--	.65	.78	.35	.34
AUG						
07...	.08	1.1	1.20	1.2	.38	.27
13...	.09	1.4	1.50	1.5	.38	.27
19...	.08	.90	.98	.99	.34	.19
26...	.08	1.0	1.10	1.1	.27	.14

ALAMEDA COUNTY

Livermore Valley Basin (2-10)

SITE NUMBER 373944121534701 LOCAL NUMBER 003S001E19A04M

NEAR PLEASANTON. DRILLED UNUSED WATER-TABLE WELL. DIAM UNKNOWN, DEPTH 358 FT. ALTITUDE OF LSD 326.7 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT ZONE 7. RECORDS AVAILABLE 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 34.5 FEET BELOW LAND SURFACE DATUM MAR 26, 1980.

LOWEST WATER LEVEL 149.7 FEET BELOW LAND SURFACE DATUM SEP 24, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1980	36.8	OCT 27, 1980	37.5	MAY 18, 1981	38.0

SITE NUMBER 374049121463301 LOCAL NUMBER 003S002E08P02M

IN LIVERMORE. DRILLED MUNICIPAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN. DEPTH 412 FT. ALTITUDE OF LSD 463 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT ZONE 7. RECORDS AVAILABLE 1940 TO CURRENT YEAR.

HIGHEST WATER LEVEL 40.0 FEET BELOW LAND SURFACE DATUM APR 01, 1979.

LOWEST WATER LEVEL 191. FEET BELOW LAND SURFACE DATUM AUG 31, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1980	85.	JAN 1981	80.	MAY 1981	84.	SEP 1981	74.
NOV	70.	MAR	100.				

Santa Clara Valley Basin (2-9.01)

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. ALTITUDE OF LSD 40 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1959 TO CURRENT YEAR.

HIGHEST WATER LEVEL 12.9 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
NOV 18, 1980	16.3	MAY 22, 1981	15.7

SITE NUMBER 373248121595001 LOCAL NUMBER 004S001W32C01M

IN FREMONT. DRILLED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN. DEPTH 250 FT. PERFORATED 200-250 FT. ALTITUDE OF LSD 48 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY WATER DISTRICT. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

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	DATE	WATER LEVEL
MAR 16, 1981	51.6	SEP 24, 1981	68.0

Santa Clara Valley Basin (2-9.01)

SITE NUMBER 373150122003201 LOCAL NUMBER 005S001W06H04M

IN NEWARK. DRILLED AQUIFER-RECLAMATION WATER-TABLE WELL IN ALLUVIAL FAN DEPOSITS. DIAM 18-16 IN, DEPTH 279 FT, LOUVERS 199-271 FT. ALTITUDE OF LSD 26.0 FT. MEASUREMENTS FURNISHED BY ALAMEDA COUNTY WATER DISTRICT. RECORDS AVAILABLE 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 29.03 FEET BELOW LAND SURFACE DATUM DEC 02, 1980.

LOWEST WATER LEVEL 63.50 FEET BELOW LAND SURFACE DATUM SEP 29, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 03, 1980	53.0	NOV 24, 1980	52.0	DEC 26, 1980	47.0	SEP 25, 1981	63.0
13	53.0	DEC 02	29.03	JAN 02, 1981	50.0		
21	52.0	05	48.0	MAR 13	45.0		

CONTRA COSTA COUNTY

Pittsburg Plain Basin (2-4)

SITE NUMBER 380131121543101 LOCAL NUMBER 002N001E18C01M

1 MI SOUTHWEST OF PITTSBURG. DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN, DEPTH 205 FT. ALTITUDE OF LSD 21 FT. RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.14 FEET BELOW LAND SURFACE DATUM APR 28, 1982.

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 21, 1981	18.27	SEP 18, 1981	18.88

SITE NUMBER 380129121543901 LOCAL NUMBER 002N001E18D01M

1 MI SOUTHWEST OF PITTSBURG. DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN, DEPTH 125 FT. ALTITUDE OF LSD 25 FT. RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 19.24 FEET BELOW LAND SURFACE DATUM APR 28, 1982.

LOWEST WATER LEVEL 28.4 FEET BELOW LAND SURFACE DATUM OCT 15, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15, 1980	20.5	MAR 19, 1981	20.3	APR 21, 1981	20.30	SEP 18, 1981	22.47 P

Clayton Valley Basin (2-5)

SITE NUMBER 380049122015301 LOCAL NUMBER 002N002W13P01M

NEAR PORT CHICAGO. DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN, DEPTH 139 FT. ALTITUDE OF LSD 45 FT. RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 19.61 FEET BELOW LAND SURFACE DATUM APR 21, 1978.

LOWEST WATER LEVEL 32.28 FEET BELOW LAND SURFACE DATUM APR 18, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 20, 1981	24.36	SEP 18, 1981	29.68

GROUND-WATER LEVELS

DEL NORTE COUNTY

Lower Klamath River Valley Basin (1-14)

SITE NUMBER 413043124020701 LOCAL NUMBER 013N001E15R01H

NEAR KLAMATH. DRILLED TEST WATER-TABLE WELL. DIAM UNKNOWN, DEPTH 200 FT. NO CASING INSTALLED. ALTITUDE OF LSD 50 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.0 FEET BELOW LAND SURFACE DATUM MAR 31, 1982.

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
MAR 25, 1981	16.0	SEP 24, 1981	9.9

Smith River Plain Basin (1-1)

SITE NUMBER 414643124115601 LOCAL NUMBER 016N001W17K01H

ABOUT 1.5 MI NORTH OF CRESCENT CITY. DRILLED DOMESTIC WATER-TABLE WELL IN THE HATTERY FORMATION OF PLEISTOCENE AGE. DIAM 6 IN, DEPTH 39 FT, PERFORATED 34-39 FT. ALTITUDE OF LSD 48 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953-1954, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 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
MAR 25, 1981	15.0

HUMBOLDT COUNTY

Mattole River Valley Basin (1-28)

SITE NUMBER 401843124170301 LOCAL NUMBER 002S002W03E01H

NEAR PETROLIA. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF THE COAST RANGE OF PLIOCENE-HOLOCENE AGE. DIAM 8 IN, DEPTH 50 FT. ALTITUDE OF LSD 100 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 13.80 FEET BELOW LAND SURFACE DATUM MAR 04, 1980.

LOWEST WATER LEVEL 16.2 FEET BELOW LAND SURFACE DATUM SEP 20, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 24, 1981	15.50 R

SITE NUMBER 40192R124171801 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.

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
APR 24, 1981	9.20

HUMBOLDT COUNTY--Continued

Bel River Valley Basin (1-10)

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, 285-365 FT. ALTITUDE OF LSD 53 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951-1953, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 28. FEET BELOW LAND SURFACE DATUM APR 11, 1967.

LOWEST WATER LEVEL 37.4 FEET BELOW LAND SURFACE DATUM NOV 08, 1952.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 24, 1981	33.5

Eureka Plain Basin (1-9)

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.

HIGHEST WATER LEVEL 17.0 FEET BELOW LAND SURFACE DATUM OCT 16, 1981.

LOWEST WATER LEVEL 38.9 FEET BELOW LAND SURFACE DATUM SEP 25, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 24, 1981	28.5	SEP 25, 1981	38.9

Mad River Valley Basin (1-8)

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 CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.7 FEET BELOW LAND SURFACE DATUM APR 15, 1958.

LOWEST WATER LEVEL 18.5 FEET BELOW LAND SURFACE DATUM NOV 06, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 25, 1981	10.0

Big Lagoon Area Basin (1-27)

SITE NUMBER 410927124074701 LOCAL NUMBER 009N001W24C01H

IN BIG LAGOON NEAR TRINIDAD. DRILLED UNUSED WATER-TABLE WELL IN HOOKTON FORMATION OF HOLOCENE AGE. DIAM 12 IN, DEPTH 130 FT, PERFORATED 0-130 FT. ALTITUDE OF LSD 105 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 16.8 FEET BELOW LAND SURFACE DATUM MAR 31, 1982.

LOWEST WATER LEVEL 28.2 FEET BELOW LAND SURFACE DATUM NOV 05, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 24, 1981	24.5

GROUND-WATER LEVELS

HUMBOLDT COUNTY--Continued

Prairie Creek Area Basin (1-25)

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. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.2 FEET BELOW LAND SURFACE DATUM MAR 31, 1982.

LOWEST WATER LEVEL 13.3 FEET BELOW LAND SURFACE DATUM SEP 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 25, 1981	11.5

MENDOCINO COUNTY

Garcia River Valley (1-20)

SITE NUMBER 385455123420201 LOCAL NUMBER 012N017W12L01M

NEAR POINT ARENA. DRILLED DOMESTIC WATER-TABLE WELL. DIAM 6 IN. DEPTH 85 FT. ALTITUDE OF LSD 220 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

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
MAR 18, 1981	6.96

Sanel Valley Basin (2-16)

SITE NUMBER 385917123070401 LOCAL NUMBER 013N011W19E01M

1.2 MI NORTH OF HOPLAND. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN. DEPTH 52 FT. ALTITUDE OF LSD 490 FT. RECORDS AVAILABLE 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.7 FEET BELOW LAND SURFACE DATUM MAR 26, 1975.

LOWEST WATER LEVEL 13.6 FEET BELOW LAND SURFACE DATUM AUG 04, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 08, 1980	12.8	MAR 24, 1981	11.5	JUN 15, 1981	13.19	AUG 10, 1981	13.19
30	13.02	APR 23	10.98 R	JUL 07	12.98 R	SEP 14	13.26 P

SITE NUMBER 385800123064801 LOCAL NUMBER 013N011W19P01M

0.4 MI 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. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953-1955, 1958 TO CURRENT YEAR.

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 08, 1980	19.6	MAR 24, 1981	9.7

MENDOCINO COUNTY--Continued

Garcia River Valley (1-20)

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.

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	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 1980	12.21	NOV 26, 1980	15.18	DEC 10, 1980	13.54	JAN 08, 1981	10.1

Ukiah Valley Basin (2-15)

SITE NUMBER 391026123123201 LOCAL NUMBER 015N012W08L01M

1 MI NORTH OF UKIAH. DRILLED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM 12 IN, DEPTH 62 FT. ALTITUDE OF LSD 640 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951-1955, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.1 FEET BELOW LAND SURFACE DATUM MAR 09, 1962.

LOWEST WATER LEVEL 30.6 FEET BELOW LAND SURFACE DATUM DEC 05, 1959.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1980	25.0	MAR 24, 1981	18.0

Potter Valley Basin (2-14)

SITE NUMBER 391944123065701 LOCAL NUMBER 017N011W18J01M

ABOUT 2.5 MI SOUTHEAST OF POTTER VALLEY. DRILLED DOMESTIC ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN, DEPTH 36 FT. ALTITUDE OF LSD 955 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951-1955, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.9 FEET ABOVE LAND SURFACE DATUM FEB 20, 1961.

LOWEST WATER LEVEL 5.2 FEET BELOW LAND SURFACE DATUM OCT 13, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1980	1.5	MAR 24, 1981	0.0

Big River Valley (1-45)

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.

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
OCT 21, 1980	37.3

GROUND-WATER LEVELS
MENDOCINO COUNTY--Continued

Little Lake Valley (1-13)

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. ALTITUDE OF LSD 1350 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.8 FEET BELOW LAND SURFACE DATUM APR 18, 1974.

LOWEST WATER LEVEL 37.6 FEET BELOW LAND SURFACE DATUM OCT 24, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29, 1980	23.52	JAN 07, 1981	21.20

SITE NUMBER 392404123191201 LOCAL NUMBER 018N013W20H04M

NEAR WILLITS. DUG DOMESTIC WATER-TABLE WELL. DIAM 36 IN, DEPTH 26 FT. ALTITUDE OF LSD 1385 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.0 FEET BELOW LAND SURFACE DATUM MAR 20, 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
OCT 09, 1980	17.9	MAR 20, 1981	1.0	APR 23, 1981	2.33

Fort Bragg Terrace Area Basin (1-21)

SITE NUMBER 392403123485701 LOCAL NUMBER 018N018W25R02M

NEAR FORT BRAGG. DRILLED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM 6 IN, DEPTH 75 FT, PERFORATED 25-75 FT. ALTITUDE OF LSD 70 FT. RECORDS AVAILABLE 1978 TO CURRENT YEAR.

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
OCT 21, 1980	11.8	APR 24, 1981	6.25

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.

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
OCT 21, 1980	16.0	APR 24, 1981	12.73

MENDOCINO COUNTY--Continued

Fort Bragg Terrace Area Basin (1-21)

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.

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
OCT 21, 1980	7.5

Laytonville (1-12)

SITE NUMBER 393837123281801 LOCAL NUMBER 021N014W30M01M

ABOUT 2 MI SOUTH OF LAYTONVILLE. DUG DOMESTIC AND IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE. SIZE 5X5 FT, DEPTH 23 FT, PERFORATED 19-23 FT. ALTITUDE OF LSD 1688 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1952-1955, 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.3 FEET BELOW LAND SURFACE DATUM MAR 30, 1982.

LOWEST WATER LEVEL 20. FEET BELOW LAND SURFACE DATUM AUG 25, 1959.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 09, 1980	18.5	MAR 20, 1981	4.2

Round Valley (1-11)

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, PERFORATED 137-660 FT. ALTITUDE OF LSD 1370 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.5 FEET ABOVE LAND SURFACE DATUM MAR 20, 1981.

LOWEST WATER LEVEL 24.2 FEET BELOW LAND SURFACE DATUM SEP 15, 1964.

WATER LEVELS IN FEET ABOVE OR BELOW(-) LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 09, 1980	-5.7	MAR 20, 1981	9.5

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 1396 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1956 TO 1959, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.4 FEET BELOW LAND SURFACE DATUM APR 02, 1980.

LOWEST WATER LEVEL 34.0 FEET BELOW LAND SURFACE DATUM OCT 09, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 09, 1980	34.0	MAR 20, 1981	9.7

MONTEREY COUNTY

Salinas Valley Basin (3-4)

SITE NUMBER 364618121463701 LOCAL NUMBER 0135002E29M02M

NORTHWEST OF CASTROVILLE. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 12 IN. DEPTH 566 FT. PERFORATED 410-566 FT. ALTITUDE OF LSD 9 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.1 FEET BELOW LAND SURFACE DATUM DEC 12, 1974.

LOWEST WATER LEVEL 27.3 FEET BELOW LAND SURFACE DATUM NOV 22, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 1981	21.7

SITE NUMBER 364521121445301 LOCAL NUMBER 0135002E33R01M

NEAR CASTROVILLE. DRILLED IRRIGATION WATER-TABLE WELL. DIAM 12 IN. DEPTH UNKNOWN. ALTITUDE OF LSD 24.8 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1944 TO CURRENT YEAR.

HIGHEST WATER LEVEL 20.2 FEET BELOW LAND SURFACE DATUM MAR 04, 1952.

LOWEST WATER LEVEL 43.9 FEET BELOW LAND SURFACE DATUM SEP 01, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 1981	31.1

SITE NUMBER 364248121404701 LOCAL NUMBER 0145003E18J01M

NORTH OF SALINAS. DRILLED IRRIGATION WATER-TABLE WELL IN PASO ROBLFS FORMATION OF PLEISTOCENE AGE. DIAM 16 IN. DEPTH 513 FT. PERFORATED 245-261, 418-434, 483-510 FT. ALTITUDE OF LSD 70 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 39.4 FEET BELOW LAND SURFACE DATUM MAR 17, 1932.

LOWEST WATER LEVEL 111.9 FEET BELOW LAND SURFACE DATUM OCT 01, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 1981	78.2	SEP 1981	103.4

SITE NUMBER 363544121495201 LOCAL NUMBER 0155001E26N02M

NEAR SEASIDE. DRILLED DOMESTIC WATER-TABLE WELL IN QUATERNARY SYSTEM. DIAM 8 IN. DEPTH 100 FT. ALTITUDE OF LSD 120 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 51.9 FEET BELOW LAND SURFACE DATUM SEP 01, 1981.

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
APR 1981	52.5	SEP 1981	51.9

MONTEREY COUNTY--Continued

Salinas Valley Basin (3-4)

SITE NUMBER 363856121413701 LOCAL NUMBER 0155002E01Q01M

2 MI SOUTHWEST OF SALINAS. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN. DEPTH 196 FT. PERFORATED 79-196 FT. ALTITUDE OF LSD 42 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 13.5 FEET BELOW LAND SURFACE DATUM FEB 24, 1932.

LOWEST WATER LEVEL 64.9 FEET BELOW LAND SURFACE DATUM SEP 01, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 1981	40.2	SEP 1981	64.9

Carmel Valley Basin (3-7)

SITE NUMBER 363136121491001 LOCAL NUMBER 0165001E23K01M

IN CARMEL VALLEY. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN. DEPTH 92 FT. PERFORATIONS 50-54, 72-88 FT. ALTITUDE OF LSD 105 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.1 FEET BELOW LAND SURFACE DATUM MAR 07, 1961.

LOWEST WATER LEVEL 66.9 FEET BELOW LAND SURFACE DATUM DEC 01, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 1981	15.9

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 13.7 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.0 FEET BELOW LAND SURFACE DATUM JUN 01, 1980.

LOWEST WATER LEVEL 8.0 FEET BELOW LAND SURFACE DATUM DEC 20, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 1981	3.4

Salinas Valley Basin (3-4)

SITE NUMBER 36320P121261301 LOCAL NUMBER 0165005E17R01M

NORTH OF GONZALES. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 15 IN. DEPTH 299 FT. ALTITUDE OF LSD 181 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1916 TO CURRENT YEAR.

HIGHEST WATER LEVEL 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	DATE	WATER LEVEL
APR 1981	108.0	SEP 1981	121.0

GROUND-WATER LEVELS
MONTEREY COUNTY--Continued

Salinas Valley Basin (3-4)

SITE NUMBER 362150121182401 LOCAL NUMBER 018S006E15F01M

NEAR SOLEDAD. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN. DEPTH UNKNOWN. ALTITUDE OF LSD 215 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1916 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.5 FEET BELOW LAND SURFACE DATUM MAY 06, 1941.

LOWEST WATER LEVEL 100.2 FEET BELOW LAND SURFACE DATUM MAR 01, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 1981	20.0

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 FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 76.0 FEET BELOW LAND SURFACE DATUM MAY 06, 1941.

LOWEST WATER LEVEL 122.1 FEET BELOW LAND SURFACE DATUM NOV 25, 1948.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 1981	83.7

SITE NUMBER 361714121114601 LOCAL NUMBER 019S007E10P01M

3.5 MI SOUTHEAST OF GREENFIELD. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 16 IN. DEPTH 245 FT. ALTITUDE OF LSD 315 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1931 TO CURRENT YEAR.

HIGHEST WATER LEVEL 73.0 FEET BELOW LAND SURFACE DATUM MAY 13, 1937.

LOWEST WATER LEVEL 113.3 FEET BELOW LAND SURFACE DATUM MAR 02, 1948.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 1981	84.8	SEP 1981	98.8

Lockwood Valley Basin (3-6)

SITE NUMBER 355732121041501 LOCAL NUMBER 023S008E02N01M

0.75 MI NORTH OF LOCKWOOD. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN. DEPTH 272 FT. PERFORATED 70-272 FT. ALTITUDE OF LSD 1040 FT. MEASUREMENTS FURNISHED BY MONTEREY COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT. RECORDS AVAILABLE 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 89.3 FEET BELOW LAND SURFACE DATUM MAR 09, 1962.

LOWEST WATER LEVEL 136.6 FEET BELOW LAND SURFACE DATUM JUL 15, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 1981	104.5

MONTEREY COUNTY--Continued

Caloma Valley Basin (3-5)

SITE NUMBER 355405120263301 LOCAL NUMBER 0235014E27H01M

0.6 MI WEST OF PARKFIELD. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH UNKNOWN. ALTITUDE OF LSD 1533 FT. RECORDS AVAILABLE 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 31.3 FEET BELOW LAND SURFACE DATUM APR 30, 1981.

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 23, 1980	33.74	APR 30, 1981	31.3

NAPA COUNTY

Napa Valley Basin (2-2.01)

SITE NUMBER 382218122190101 LOCAL NUMBER 006N004W17A01M

ABOUT 4 MI NORTH OF NAPA. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN, DEPTH 250 FT. ALTITUDE OF LSD 67 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1949 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.6 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 07, 1980	14.0	MAR 16, 1981	16.2 P

SITE NUMBER 383326122311801 LOCAL NUMBER 008N006W10Q01M

ABOUT 3.5 MI SOUTHEAST OF CALISTOGA. DRILLED STOCK AND IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 184 FT. ALTITUDE OF LSD 290 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1949 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.1 FEET BELOW LAND SURFACE DATUM MAR 20, 1967.

LOWEST WATER LEVEL 40.75 FEET BELOW LAND SURFACE DATUM SEP 14, 1950.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1980	9.3	MAR 16, 1981	5.8

GROUND-WATER LEVELS

SAN BENITO COUNTY--Continued

Gilroy-Hollister Valley Basin (3-3)

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. ALTITUDE OF LSD 175 FT. MEASUREMENTS FURNISHED BY COUNTY OF SAN BENITO. RECORDS AVAILABLE 1960 TO CURRENT YEAR.

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 1980	98.	MAR 1981	95.5

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. ALTITUDE OF LSD 213 FT. MEASUREMENTS FURNISHED BY COUNTY OF SAN BENITO. RECORDS AVAILABLE 1949 TO CURRENT YEAR.

HIGHEST WATER LEVEL 69.5 FEET BELOW LAND SURFACE DATUM FEB 07, 1968.

LOWEST WATER LEVEL 141. FEET BELOW LAND SURFACE DATUM OCT 01, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1980	134.	MAR 1981	131.0

SAN LUIS OBISPO COUNTY

Paso Robles Basin (3-4.06)

SITE NUMBER 35373A120262801 LOCAL NUMBER 026S014E35D01M

4 MI SOUTHWEST OF SHANDON. DRILLED STOCK WATER-TABLE WELL IN PASO ROBLES FORMATION OF PLEISTOCENE AGE. DIAM 8 IN. DEPTH 290 FT. ALTITUDE OF LSD 1134.5 FT. MEASUREMENTS FURNISHED BY SAN LUIS OBISPO COUNTY. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 12.1 FEET BELOW LAND SURFACE DATUM APR 08, 1981.

LOWEST WATER LEVEL 176.7 FEET BELOW LAND SURFACE DATUM JAN 07, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10, 1980	122.4	OCT 14, 1980	21.8	APR 08, 1981	12.1	MAY 16, 1981	120.7

Salinas Valley Basin (3-4)

SITE NUMBER 353335120412301 LOCAL NUMBER 027S012E21N05M

1 MI NORTHEAST OF TEMPLETON. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM UNKNOWN. DEPTH UNKNOWN. ALTITUDE OF LSD 737 FT. MEASUREMENTS FURNISHED BY SAN LUIS OBISPO COUNTY. RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 6.5 FEET BELOW LAND SURFACE DATUM APR 12, 1973.

LOWEST WATER LEVEL 72.6 FEET BELOW LAND SURFACE DATUM OCT 03, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1980	72.6	OCT 17, 1980	19.9	OCT 26, 1980	14.75	APR 21, 1981	69.6

GROUND-WATER LEVELS

495

SAN LUIS OBISPO COUNTY--Continued

San Luis Obispo Valley Basin (3-9)

SITE NUMBER 351258120364501 LOCAL NUMBER 031S013E19H01M

6 MI SOUTHEAST OF SAN LUIS OBISPO. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN. DEPTH UNKNOWN. ALTITUDE OF LSD 262 FT. MEASUREMENTS FURNISHED BY SAN LUIS OBISPO COUNTY. RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.3 FEET BELOW LAND SURFACE DATUM MAR 25, 1969.

LOWEST WATER LEVEL 43.1 FEET BELOW LAND SURFACE DATUM OCT 27, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
APR 20, 1981	42.2

SAN MATEO COUNTY

Santa Clara Valley Basin (2 -9.02)

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.

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
NOV 24, 1980	F

SITE NUMBER 372722122100501 LOCAL NUMBER 005S003W34H01M

IN MENLO PARK. DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 16-8 IN. DEPTH 290 FT. PERFORATED 180-200, 250-270 FT. ALTITUDE OF LSD 53 FT. RECORDS AVAILABLE 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 30.85 FEET BELOW LAND SURFACE DATUM MAY 20, 1980.

LOWEST WATER LEVEL 53.90 FEET BELOW LAND SURFACE DATUM AUG 16, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
DEC 04, 1980	34.20

Half Moon Bay Terrace Basin (2-22)

SITE NUMBER 372706122254301 LOCAL NUMBER 005S005W32K01M

0.5 MI SOUTH OF HALF MOON BAY. DRILLED UNUSED WATER-TABLE WELL IN TERRACE DEPOSITS OF PLEISTOCENE AGE. DIAM 12 IN. DEPTH 96 FT. PERFORATED 47-92 FT. ALTITUDE OF LSD 92 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 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 16, 1980	30.3	MAR 30, 1981	30.9

GROUND-WATER LEVELS
SAN MATEO COUNTY-Continued

Pillar Point Basin (2-22)

SITE NUMBER 373045122292801 LOCAL NUMBER 005S006W11E03M

5 MI NORTHWEST OF HALF MOON BAY. DRILLED UNUSED WATER-TABLE WELL IN TERRACE DEPOSITS OF PLEISTOCENE AGE. DIAM 12 IN, DEPTH 87 FT, PERFORATED 12-88 FT. ALTITUDE OF LSD 49 FT. RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.46 FEET BELOW LAND SURFACE DATUM APR 18, 1979.

LOWEST WATER LEVEL 29.54 FEET BELOW LAND SURFACE DATUM SEP 15, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 20, 1981	18.95	SEP 15, 1981	29.54

San Gregorio Valley Basin (2-24)

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.

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 16, 1980	15.5	MAR 30, 1981	13.2

Pescadero Valley Basin (2-24)

SITE NUMBER 371506122223701 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. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953 TO CURRENT YEAR.

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 16, 1980	18.3	MAR 30, 1981	17.4

SANTA CLARA COUNTY

Santa Clara Valley Basin (2-9.02)

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.

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
OCT 01, 1980	45.2	NOV 10, 1980	28.6	DEC 20, 1980	21.8	FEB 06, 1981	11.4
02	44.0	11	28.4	21	20.6	07	11.5
03	44.9	12	28.1	22	19.8	08	11.8
04	43.4	13	32.0	23	19.4	09	11.7
05	43.0	14	31.7	24	18.9	10	11.4
06	41.9	15	31.7	25	18.4	11	11.2
07	41.4	16	28.9	26	17.9	12	11.0
08	42.1	17	27.5	27	17.3	13	10.7
09	41.8	18	31.0	29	17.2	15	10.8
10	42.0	19	30.8	30	16.9	16	10.4
11	42.0	20	27.9	31	16.4	17	10.3
12	41.0	21	27.5	JAN 01, 1981	15.9	19	10.4
13	39.2	22	27.7	02	15.5	20	10.3
14	38.1	23	26.7	03	15.1	21	10.1
15	37.2	24	25.8	04	14.7	23	10.0
16	37.0	25	25.7	05	14.2	24	9.9
17	36.8	26	26.3	06	13.8	25	9.7
18	36.4	27	29.6	07	13.7	26	9.8
19	35.8	28	27.2	08	13.6	27	10.1
20	35.3	29	25.7	10	13.7	28	10.0
21	36.4	30	24.5	11	13.4	MAR 01	9.8
22	38.0	DEC 01	23.8	13	13.3	02	9.5
23	37.6	02	23.3	14	13.1	03	9.3
24	36.0	03	22.9	16	13.2	04	9.1
25	33.8	04	22.4	17	13.3	05	9.0
26	33.4	05	21.9	18	13.7	06	9.2
27	33.1	06	21.7	19	13.6	07	9.1
28	34.9	07	21.4	21	13.7	08	9.0
29	35.5	08	21.2	23	13.6	09	8.7
30	35.8	09	21.1	24	13.5	11	8.8
31	34.7	10	20.8	25	13.3	12	9.2
NOV 01	32.4	11	20.5	26	13.0	13	14.9
02	31.1	12	20.3	27	12.9	14	12.8
03	30.7	13	20.5	28	12.6	15	10.7
04	30.1	14	20.6	29	12.8	16	9.9
05	29.8	15	20.5	FEB 01	12.7	17	9.6
06	29.7	16	20.4	02	12.3	18	9.4
07	29.6	17	20.1	03	12.0	19	9.5
08	29.4	18	25.3	04	11.7	20	8.9
09	28.8	19	23.6	05	11.6	21	8.6
MAR 22, 1981	8.2	APR 20, 1981	14.5	MAY 19, 1981	29.1	JUN 17, 1981	52.4
23	7.8	21	14.3	20	28.9	18	52.6
24	7.7	22	19.8	21	29.7	19	51.0
25	7.6	23	20.1	22	30.2	20	51.4
26	7.4	24	20.5	23	31.6	21	50.7
27	7.5	25	20.5	24	32.6	22	49.4
28	7.3	26	19.7	25	31.2	23	49.4
29	7.2	27	19.6	26	35.3	24	50.2
30	7.0	28	20.0	27	34.4	25	50.9
31	7.4	29	21.7	28	32.4	26	49.8
APR 01	7.5	30	24.9	29	31.9	27	50.3
02	7.9	MAY 01	26.1	30	33.0	28	51.0
03	7.5	02	27.3	31	33.5	29	51.0
04	8.2	03	27.6	JUN 01	32.4	30	53.0
05	8.9	04	26.9	02	31.6	JUL 01	54.2
06	9.3	05	28.0	03	34.9	02	53.2
07	9.4	06	29.3	04	35.0	03	50.8
08	11.1	07	31.1	05	35.	04	50.4
09	11.7	08	32.0	06	35.6	05	49.6
10	12.3	09	31.9	07	35.6	06	48.8
11	13.3	10	30.7	08	35.6	07	48.8
12	14.9	11	29.4	09	37.3	08	48.2
13	14.0	12	29.5	10	39.2	09	48.7
14	14.3	13	30.0	11	39.4	10	51.0
15	15.5	14	31.3	12	39.8	11	52.3
16	15.3	15	31.9	13	39.2	12	53.7
17	16.5	16	30.7	14	38.7	13	53.8
18	16.3	17	28.8	15	40.4	SEP 18	54.2
19	15.8	18	29.0	16	51.6		

SANTA CLARA COUNTY--Continued

Santa Clara Valley Basin (2-9.02)

SITE NUMBER 372640122084901 LOCAL NUMBER 006S003W01D10M

IN PALO ALTO. DRILLED MUNICIPAL WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM 14 IN. DEPTH 600 FT. PERFORATED 165-172, 226-242, 252-272, 362-376, 425-433, 442-456, 570-592 FT. ALTITUDE OF LSD 31.4 FT. MEASUREMENTS FURNISHED BY SANTA CLARA VALLEY WATER DISTRICT. RECORDS AVAILABLE 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 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
OCT 02, 1980	16.1	MAR 02, 1981	21.0	JUN 01, 1981	16.1	SEP 01, 1981	20.0
JAN 02, 1981	17.1	30	15.1	JUL 16	17.1		
FEB 02	17.1	MAY 04	15.1	31	17.1		

SITE NUMBER 372130122042301 LOCAL NUMBER 007S002W03D02M

NEAR LOS ALTOS. DRILLED MUNICIPAL AND INDUSTRIAL WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM UNKNOWN. DEPTH 187 FT. ALTITUDE OF LSD 640 FT. MEASUREMENTS FURNISHED BY SANTA CLARA VALLEY WATER DISTRICT. RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 131.0 FEET BELOW LAND SURFACE DATUM MAR 01, 1974.

LOWEST WATER LEVEL 303.0 FEET BELOW LAND SURFACE DATUM JUL 01, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 01, 1981	240.1

SITE NUMBER 371044121414701 LOCAL NUMBER 009S002E01J01M

4 MI NORTHWEST OF MORGAN HILL. DRILLED IRRIGATION WATER-TABLE WELL IN SANTA CLARA FORMATION OF PLEISTOCENE AGE. DIAM 12 IN. DEPTH 135 FT. ALTITUDE OF LSD 322 FT. MEASUREMENTS FURNISHED BY SANTA CLARA VALLEY WATER DISTRICT. RECORDS AVAILABLE 1936 TO CURRENT YEAR.

HIGHEST WATER LEVEL 12.6 FEET BELOW LAND SURFACE DATUM APR 16, 1941.

LOWEST WATER LEVEL 102.7 FEET BELOW LAND SURFACE DATUM NOV 19, 1948.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 26, 1980	30.8	APR 01, 1981	28.9	MAY 28, 1981	32.8	SEP 28, 1981	36.7

Gilroy-Hollister Valley Basin (3-3)

SITE NUMBER 370048121344701 LOCAL NUMBER 011S004E06D01M

IN GILROY. DRILLED MUNICIPAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 14 IN. DEPTH 470 FT. PERFORATED 108-324, 376-460 FT. ALTITUDE OF LSD 211 FT. MEASUREMENTS FURNISHED BY THE CITY OF GILROY. RECORDS AVAILABLE 1947 TO CURRENT YEAR.

HIGHEST WATER LEVEL 32. FEET BELOW LAND SURFACE DATUM APR 01, 1982.

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 1980	56.	JAN 1981	50.	APR 1981	51.	JUL 1981	74.
NOV	56.	FEB	45.	MAY	51.	AUG	82.
DEC	53.	MAR	45.	JUN	62.	SEP	79.

SANTA CRUZ COUNTY

Soquel Valley Basin (3-1)

SITE NUMBER 365934121572601 LOCAL NUMBER 011S001W10C01M

0.5 MI NORTH OF SOQUEL. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM UNKNOWN, DEPTH UNKNOWN. ALTITUDE OF LSD 90 FT. RECORDS AVAILABLE 1948 TO CURRENT YEAR.

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	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17, 1980	63.2	FEB 19, 1981	62.3	JUN 08, 1981	62.3	SEP 10, 1981	63.9
NOV 20	63.0	MAR 19	62.0	JUL 07	65.5		
JAN 16, 1981	62.5	APR 15	62.8 R	AUG 13	65.0		

Pajaro Valley Basin (3-2)

SITE NUMBER 365702121464001 LOCAL NUMBER 011S002E29F02M

ABOUT 2.5 MI NORTHWEST OF WATSONVILLE. DRILLED IRRIGATION WATER-TABLE WELL IN AROMAS RED SAND OF PLEISTOCENE AGE. DIAM 12 IN. DEPTH 656 FT. LOUVERED 236-656 FT. ALTITUDE OF LSD 134 FT. RECORDS AVAILABLE 1970 TO CURRENT YEAR.

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 15, 1980	116.1	JAN 15, 1981	116.3	MAR 18, 1981	119.9	APR 24, 1981	116.3
NOV 14	116.2	FEB 19	117.1				

West Santa Cruz Terrace Basin (3-26)

SITE NUMBER 365733122050801 LOCAL NUMBER 011S002W21F03M

3 MI WEST OF SANTA CRUZ. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF HOLOCENE AGE. DIAM 12 IN. DEPTH 395 FT. ALTITUDE OF LSD 68 FT. RECORDS AVAILABLE 1974 TO CURRENT YEAR.

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 17, 1980	158.15	FEB 20, 1981	142.87	APR 14, 1981	132.94	JUN 09, 1981	137.07
NOV 19	155.81	MAR 19	138.52				

Pajaro Valley Basin (3-2)

SITE NUMBER 365255121475801 LOCAL NUMBER 012S001E13R01M

3 MI SOUTHWEST OF WATSONVILLE. DRILLED IRRIGATION WATER-TABLE WELL IN AROMAS SAND OF PLEISTOCENE AGE. DIAM 12 IN. DEPTH 370 FT. ALTITUDE OF LSD 10 FT. RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2. FEET BELOW LAND SURFACE DATUM JUN 01, 1972.

LOWEST WATER LEVEL 28.0 FEET BELOW LAND SURFACE DATUM JUL 16, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14, 1980	17.42	DEC 22, 1980	10.89	MAR 16, 1981	8.53	AUG 06, 1981	24.23
NOV 18	14.91	JAN 14, 1981	10.54	APR 21	16.06 R		

R RECENTLY PUMPED

GROUND-WATER LEVELS
SANTA CRUZ COUNTY--Continued

Pajaro Valley Basin (3-2)

SITE NUMBER 365425121452201 LOCAL NUMBER 012S002E09C02M

IN WATSONVILLE. DRILLED MUNICIPAL WATER-TABLE WELL IN PURISIMA FORMATION OF PLIOCENE AGE. DIAM 12 IN, DEPTH 177 FT, PERFORATED 98-147 FT. ALTITUDE OF LSD 23 FT. MEASUREMENTS FURNISHED BY CITY OF WATSONVILLE. RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.0 FEET BELOW LAND SURFACE DATUM FEB 17, 1969.

LOWEST WATER LEVEL 68. FEET BELOW LAND SURFACE DATUM SEP 01, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1980	50.	FEB 1981	38.	JUN 1981	47.5	AUG 1981	52.
NOV	47.	MAR	38.	08	46.00	11	62.0
DEC	41.5	APR	37.	JUL	68. P	SFP	68.
JAN 1981	38.	MAY	45.	09	68.5 P	10	51.5

SITE NUMBER 365446121412001 LOCAL NUMBER 012S003E06N02M

4 MI EAST OF WATSONVILLE. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF PLIOCENE AGE. DIAM 10 IN, DEPTH 123 FT. ALTITUDE OF LSD 47 FT. RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 36.35 FEET BELOW LAND SURFACE DATUM APR 12, 1982.

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 17, 1980	52.71 R	FEB 19, 1981	45.56	JUN 10, 1981	53.38 S	SFP 10, 1981	54.18
DEC 22	47.79	MAR 18	42.22	JUL 08	53.29 R		
JAN 16, 1981	46.62	APR 21	42.78	AUG 10	56.11		

SOLANO COUNTY

Suisun-Fairfield Valley Basin (2-3)

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, PERFORATED 174-176, 242-252, 269-285 FT. ALTITUDE OF LSD 95 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 60.4 FEET BELOW LAND SURFACE DATUM JUL 17, 1975.

LOWEST WATER LEVEL 62.7 FEET BELOW LAND SURFACE DATUM OCT 02, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1980	61.5	MAR 12, 1981	61.2

P PUMPING

R RECENTLY PUMPED

S NEARBY, PUMPING

GROUND-WATER LEVELS

501

SOLANO COUNTY--Continued

Suisun-Fairfield Valley Basin (2-3)

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 CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1959 TO CURRENT YEAR.

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 06, 1980	9.4	JAN 28, 1981	10.8	APR 28, 1981	11.2 R	SEP 28, 1981	10.3
28	11.3 R	FEB 24	10.3	MAY 27	7.6		
NOV 25	11.1	MAR 16	10.5	JUN 29	8.5		
DEC 30	11.0	23	9.4	AUG 26	9.9		

SONOMA COUNTY

Sonoma Valley Basin (2-2.02)

SITE NUMBER 381700122261401 LOCAL NUMBER 005N005W17C01M

ABOUT 0.5 MI NORTH OF VINEBURG. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 6 IN, DEPTH 64 FT. ALTITUDE OF LSD 85 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1950 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.2 FEET BELOW LAND SURFACE DATUM MAR 14, 1958.

LOWEST WATER LEVEL 28.78 FEET BELOW LAND SURFACE DATUM JUN 06, 1950.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1980	20.9	MAR 17, 1981	16.0

SITE NUMBER 381452122264801 LOCAL NUMBER 005N005W29N01M

2.8 MI SOUTH OF SONOMA. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN, DEPTH 100 FT. ALTITUDE OF LSD 16 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1951 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1. FEET BELOW LAND SURFACE DATUM APR 24, 1967.

LOWEST WATER LEVEL 19.6 FEET BELOW LAND SURFACE DATUM JAN 02, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1980	13.3	MAR 17, 1981	8.3

Petaluma Valley Basin (2-1)

SITE NUMBER 381603122391101 LOCAL NUMBER 005N007W20B02M

2 MI SOUTH OF PENNGROVE. DRILLED STOCK WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 8 IN, DEPTH 158 FT. ALTITUDE OF LSD 41 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.6 FEET BELOW LAND SURFACE DATUM APR 01, 1955.

LOWEST WATER LEVEL 99.6 FEET BELOW LAND SURFACE DATUM JAN 11, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10, 1980	49.8	MAR 17, 1981	37.1

GROUND-WATER LEVELS
SONOMA COUNTY--Continued

Alexander Valley Basin (2-17)

SITE NUMBER 384320122534201 LOCAL NUMBER 010N009W18801M

1 MI NORTHEAST OF GEYSERVILLE. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. TERRACE DEPOSITS OF HOLOCENE AGE, AND CRETACEOUS-JURASSIC SYSTEMS. DIAM 10 IN. DEPTH 180 FT. ALTITUDE OF LSD 230 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1950 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.0 FEET BELOW LAND SURFACE DATUM MAP 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 08, 1980	21.4	MAR 25, 1981	15.0

SITE NUMBER 384717123004801 LOCAL NUMBER 011N010W19F02M

ABOUT 1 MI SOUTH OF CLOVERDALE. DRILLED UNUSED ARTESIAN WELL IN FRANCISCAN COMPLEX OF LATE JURASSIC TO LATE CRETACEOUS AGE, AND KNOXVILLE FORMATION OF LATE JURASSIC AGE. DIAM 8 IN. DEPTH 160 FT. PERFORATED 116-135 FT. ALTITUDE OF LSD 346 FT. MEASUREMENTS FURNISHED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES. RECORDS AVAILABLE 1952 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.55 FEET BELOW LAND SURFACE DATUM APR 17, 1963.

LOWEST WATER LEVEL 17.32 FEET BELOW LAND SURFACE DATUM SEP 15, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 08, 1980	11.1	MAR 25, 1981	4.5

Santa Rosa Valley Basin (2-18)

SITE NUMBER 382229122473101 LOCAL NUMBER 006N008W07P02M

5.5 MI NORTHWEST OF COTATI. DRILLED DOMESTIC AND IRRIGATION WATER-TABLE WELL IN THE MERCED FORMATION OF PLEISTOCENE AGE. DIAM 8 IN. DEPTH 120 FT. ALTITUDE OF LSD 95 FT. RECORDS AVAILABLE 1945 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.55 FEET BELOW LAND SURFACE DATUM APR 04, 1952.

LOWEST WATER LEVEL 63.2 FEET BELOW LAND SURFACE DATUM SEP 29, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30, 1980	31.8	FEB 25, 1981	24.8	MAY 28, 1981	20.0	AUG 29, 1981	28.9
DEC 30	37.0	MAR 26	14.6	JUN 25	24.1	SEP 29	63.2
JAN 28, 1981	21.0	APR 29	20.2	JUL 29	30.7		

SITE NUMBER 383535122521301 LOCAL NUMBER 009N009W28N01M

1 MI SOUTH OF HEALDSBURG. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 10 IN. DEPTH 53 FT. ALTITUDE OF LSD 90 FT. RECORDS AVAILABLE 1953-1954, 1958 TO CURRENT YEAR.

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 15, 1981	20.60	SEP 24, 1981	28.89

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

The following analyses were made either by the State of California Brite Laboratory, the Geological Survey laboratories, or by a laboratory that made the analyses under Geological Survey quality control.

ALAMEDA COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CaCO3)
373840121532901	003S001E29E03M	110ALVM	80-11-26	1100	--	155	1070	16.5	--
			81-03-26	1400	--	155	1090	16.0	350
			81-06-04	1500	22.80	155	1150	18.0	--
			81-08-19	1400	--	155	1180	17.0	--
374112121485001	003S001E12F01M	110ALVM	80-12-11	0800	92.10	240	900	16.0	--
			81-03-31	1600	92.00	240	910	17.0	390
			81-06-01	1800	99.20	240	970	17.0	--
			81-08-19	0800	103.00	240	920	17.0	--

STATION NUMBER	DATE OF SAMPLE	HARDNESS NONCARBONATE (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM DIS-SOLVED (MG/L AS Mg)	SODIUM DIS-SOLVED (MG/L AS Na)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM DIS-SOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE DIS-SOLVED (MG/L AS Cl)
373840121532901	80-11-26	--	--	--	--	--	--	--	--	--	100
	81-03-26	12	80	37	91	36	2.1	1.9	340	70	100
	81-06-04	--	--	--	--	--	--	--	--	--	110
	81-08-19	--	--	--	--	--	--	--	--	--	110
374112121485001	80-12-11	--	--	--	--	--	--	--	--	--	68
	81-03-31	73	52	64	43	19	.9	1.8	320	47	65
	81-06-01	--	--	--	--	--	--	--	--	--	74
	81-08-19	--	--	--	--	--	--	--	--	--	72

STATION NUMBER	DATE OF SAMPLE	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)	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)
373840121532901	80-11-26	--	--	634	--	1.60	.000	1.6	--
	81-03-26	.2	24	609	617	--	--	1.6	--
	81-06-04	--	--	662	--	1.60	.010	1.6	11
	81-08-19	--	--	675	--	2.00	.030	2.0	--
374112121485001	80-12-11	--	--	551	--	9.80	.000	9.8	--
	81-03-31	.2	25	526	527	--	--	8.2	--
	81-06-01	--	--	550	--	8.70	.010	8.7	7.1
	81-08-19	--	--	540	--	7.60	.030	7.6	--

STATION NUMBER	DATE OF SAMPLE	BORON DIS-SOLVED (UG/L AS B)	IRON DIS-SOLVED (UG/L AS FE)	MANGANESE DIS-SOLVED (UG/L AS MN)
373840121532901	80-11-26	--	--	--
	81-03-26	990	210	380
	81-06-04	--	--	--
	81-08-19	--	--	--
374112121485001	80-12-11	--	--	--
	81-03-31	390	10	6
	81-06-01	--	--	--
	81-08-19	--	--	--

Geologic unit (aquifer):

110ALVM - Alluvium, Quaternary age.

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

CONTRA COSTA COUNTY

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)		
380129121543901		002N001E18D01M	110ALVM	81-04-21	0850	1220	7.0	19.5	--	--		
			110ALVM	81-08-04	1345	745	7.5	21.5	240	55		
			110ALVM	81-09-00	--	740	7.7	21.5	230	53		
			110ALVM	81-09-18	1300	740	7.7	21.5	--	--		
380049122015301		002N002W13P01M	110ALVM	81-04-20	1400	1010	7.3	19.0	--	--		
			110ALVM	81-08-04	1215	1080	7.5	--	290	52		
			110ALVM	81-09-18	1115	1500	7.6	21.0	400	71		
STATION	NUMBER	DATE OF SAMPLE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	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)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
380129121543901		81-04-21	--	--	--	--	--	180	--	--	--	--
		81-08-04	25	70	4.7	--	--	77	--	--	--	--
		81-09-00	23	60	4.9	--	19	66	.1	57	--	1.9
		81-09-18	--	--	--	--	--	67	--	--	--	--
380049122015301		81-04-20	--	--	--	--	--	160	--	--	--	--
		81-08-04	39	117	--	--	--	179	--	--	--	--
		81-09-18	55	130	1.6	--	74	230	.3	36	841	9.2

STATION NUMBER	DATE OF SAMPLE	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
380129121543901	81-04-21	--	--	--
	81-08-04	200	--	--
	81-09-00	--	15	53
	81-09-18	--	--	--
380049122015301	81-04-20	--	--	--
	81-08-04	--	--	--
	81-09-18	270	23	9

HUMBOLDT COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)
401843124170301	002S002W03E01H	111ALCR	81-04-24	1245	363	7.3	19.0	160	47
401928124171801	002S002W09H01H	111ALCR	81-04-24	1345	190	6.2	17.0	73	22
404427124123001	004N001W08P01H	112CRLT	81-05-19	--	170	7.8	21.5	--	--
404353124105001	004N001W16H01H	112HKTN	81-05-19	--	480	7.7	15.0	--	--
405302124063201	006N001E19Q01H	110ALVM	81-05-19	0945	390	7.3	15.5	182	53

Geologic unit (aquifer):

- 110ALVM - Alluvium, Quaternary age.
- 111ALCR - Alluvium of the Coast Range (Pliocene-Holocene).
- 112CRLT - Carlotta Formation.
- 112HKTN - Hookton Formation.

QUALITY OF GROUND WATER

505

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

HUMBOLDT COUNTY--Continued

STATION NUMBER	DATE OF SAMPLE	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS S04)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
401843124170301	81-04-24	9.2	16	.8	--	2.8	11	.2	17	--	.00
401928124171801	81-04-24	4.4	11	.6	--	2.7	6.7	.1	23	--	.00
404427124123001	81-05-19	--	--	--	--	--	--	--	--	--	--
404353124105001	81-05-19	--	--	--	--	--	--	--	--	--	--
405302124063201	81-05-19	12	10	1.1	189	--	10	--	--	--	--

STATION NUMBER	DATE OF SAMPLE	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
401843124170301	81-04-24	130	80	190
401928124171801	81-04-24	50	7500	220
404427124123001	81-05-19	--	--	--
404353124105001	81-05-19	--	--	--
405302124063201	81-05-19	--	--	--

MENDOCINO COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)
385455123420201	012N017W12L01M	--	81-03-18	1445	116	6.3	15.5	--	--
		--	81-09-13	1520	124	--	15.5	--	--
385645123405701	013N016W31M01M	111TRRC	80-11-26	1515	474	--	17.0	84	20
391836123475101	017N017W30F03M	111TRRC	80-11-13	1700	--	--	--	57	12
392404123191201	018N013W20H04M	111ALVM	81-08-04	--	270	6.6	18.0	--	--
		111ALVM	81-09-16	1445	664	6.8	15.5	280	58
393043123454101	019N017W16F04M	111TRRC	80-11-13	1445	--	--	--	12	2.9
393837123281801	021N014W30M01M	111ALVMY	81-08-04	--	235	6.7	21.5	--	--
		111ALVMY	81-09-24	1045	214	6.8	15.0	86	13
394642123151501	022N013W12K01M	110ALVM	80-10-09	1630	260	7.0	16.0	98	16

STATION NUMBER	DATE OF SAMPLE	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS S04)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
385455123420201	81-03-18	--	--	--	--	--	--	--	--	--	1.3
	81-09-13	--	--	--	--	--	--	--	--	84	1.1
385645123405701	80-11-26	8.2	54	3.5	--	16	100	.1	19	--	2.0
391836123475101	80-11-13	6.5	50	1.7	--	11	100	.1	21	--	.75
392404123191201	81-08-04	--	--	--	--	--	--	--	--	--	--
	81-09-16	33	26	1.2	--	5.0	40	.1	24	--	.00
393043123454101	80-11-13	1.2	11	.7	--	2.8	17	.1	20	--	.46
393837123281801	81-08-04	--	--	--	--	--	--	--	--	--	--
	81-09-24	13	15	.6	--	5.0	11	.2	23	--	.12
394642123151501	80-10-09	14	12	.7	--	11	6.2	.3	22	--	.07

Geologic unit (aquifer):

111TRRC - Terrace deposits.

111ALVM - Holocene alluvium.

111ALVMY - Alluvium, younger.

110ALVM - Alluvium, Quaternary age.

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MENDOCINO COUNTY--Continued

STATION NUMBER	DATE OF SAMPLE	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
385455123420201	81-03-18	--	--	--
	81-09-13	--	--	--
385645123405701	80-11-26	40	20	6
391836123475101	80-11-13	50	<10	10
392404123191201	81-08-04	--	--	--
	81-09-16	70	16	1400
393043123454101	80-11-13	40	<10	2
393837123281801	81-08-04	--	--	--
	81-09-24	20	82	16
394642123151501	80-10-09	100	<10	2200

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

SAN MATEO COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
372722122100501	005S003W34H01M	--	81-05-18	0930	702	6.9	19.0	210	58
373054122294101	005S006W11E01M	--	81-08-05	1530	671	6.5	16.5	190	41
		--	81-09-15	1420	695	6.9	18.0	190	40

STATION NUMBER	DATE OF SAMPLE	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY FIELD (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 SI02)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
372722122100501	81-05-18	15	76	1.5	--	59	70	.2	22	446	2.3
373054122294101	81-08-05	20	62	.9	--	--	120	--	--	--	--
	81-09-15	21	60	.8	--	46	110	.5	38	--	2.9

STATION NUMBER	DATE OF SAMPLE	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
372722122100501	81-05-18	150	40	70
373054122294101	81-08-05	--	--	--
	81-09-15	80	19	10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SANTA CRUZ COUNTY

STATION	NUMBER	LOCAL IDENT- IFIER	GEO- LOGIC UNIT	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
365934121572601		011S001W10C01M	111TRRC	81-09-10	1535	451	7.1	19.0	180	44
365733122050801		011S002W21F03M	122SMRG	80-10-17	0835	617	6.5	17.0	--	--
			122SMRG	80-11-19	1235	630	6.6	14.5	--	--
			122SMRG	81-01-19	1059	647	7.3	13.5	--	--
			122SMRG	81-02-20	0845	548	6.5	15.0	--	--
			122SMRG	81-03-19	1530	422	7.1	--	--	--
			122SMRG	81-06-09	1358	720	6.5	20.0	--	--
			122SMRG	81-07-09	1300	707	6.4	18.0	--	--
365425121452201		012S002E09C02M	--	81-04-23	1025	793	7.0	19.0	--	--
			--	81-06-08	0920	795	7.3	19.5	--	--
			--	81-07-09	0906	688	7.0	18.5	--	--
			--	81-08-11	0950	688	7.0	18.5	310	74
			--	81-09-10	1020	665	6.9	18.5	--	--
365446121412001		012S003E06N02M	111ALCRY	80-10-17	1502	1710	7.3	14.5	--	--
			111ALCRY	80-11-13	0903	1580	7.1	16.0	--	--
			111ALCRY	80-12-22	1315	1630	7.2	15.0	--	--
			111ALCRY	81-01-16	1050	1750	7.5	14.0	--	--
			111ALCRY	81-02-19	1320	1750	7.5	16.5	--	--
			111ALCRY	81-03-18	1145	1620	7.1	13.0	--	--
			111ALCRY	81-04-21	1000	1660	7.2	17.0	--	--
			111ALCRY	81-06-10	1315	1780	7.0	18.5	--	--
			111ALCRY	81-07-08	1033	1720	7.0	18.0	--	--
			111ALCRY	81-08-10	1035	1640	7.2	17.5	820	130
			111ALCRY	81-09-10	0925	1560	6.9	16.5	--	--

STATION	NUMBER	DATE OF SAMPLE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (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)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)
365934121572601		81-09-10	18	20	5.4	--	71	23	.2	79	--	.05
365733122050801		80-10-17	--	--	--	--	--	55	--	--	--	--
		80-11-19	--	--	--	--	--	55	--	--	--	--
		81-01-19	--	--	--	--	--	59	--	--	--	--
		81-02-20	--	--	--	--	--	39	--	--	--	--
		81-03-19	--	--	--	--	--	36	--	--	--	--
		81-06-09	--	--	--	--	--	46	--	--	--	--
		81-07-09	--	--	--	--	--	60	--	--	--	--
365425121452201		81-04-23	--	--	--	--	--	28	--	--	--	--
		81-06-08	--	--	--	--	--	24	--	--	--	--
		81-07-09	--	--	--	--	--	32	--	--	--	--
		81-08-11	30	38	2.5	--	49	28	.1	36	--	1.2
		81-09-10	--	--	--	--	--	32	--	--	--	--
365446121412001		80-10-17	--	--	--	--	--	82	--	--	--	--
		80-11-13	--	--	--	--	--	85	--	--	--	--
		80-12-22	--	--	--	--	--	86	--	--	--	--
		81-01-16	--	--	--	--	--	84	--	--	--	--
		81-02-19	--	--	--	--	--	87	--	--	--	--
		81-03-18	--	--	--	--	--	80	--	--	--	--
		81-04-21	--	--	--	--	--	81	--	--	--	--
		81-06-10	--	--	--	--	--	87	--	--	--	--
		81-07-08	--	--	--	--	--	86	--	--	--	--
		81-08-10	120	77	1.9	--	250	83	.3	30	--	.00
		81-09-10	--	--	--	--	--	84	--	--	--	--

Geologic unit (aquifer):

111TRRC - Terrace deposits.

122SMRG - Santa Margarita Formation.

111ALCRY - Alluvium of the Coast Range, younger (Pleistocene-Holocene).

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SANTA CRUZ COUNTY--Continued

STATION NUMBER	DATE OF SAMPLE	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
365934121572601	81-09-10	40	60	160
365733122050801	80-10-17	--	--	--
	80-11-19	--	--	--
	81-01-19	--	--	--
	81-02-20	--	--	--
	81-03-19	--	--	--
	81-06-09	--	--	--
	81-07-09	--	--	--
365425121452201	81-04-23	--	--	--
	81-06-08	--	--	--
	81-07-09	--	--	--
	81-08-11	140	<10	8
	81-09-10	--	--	--
365446121412001	80-10-17	--	--	--
	80-11-13	--	--	--
	80-12-22	--	--	--
	81-01-16	--	--	--
	81-02-19	--	--	--
	81-03-18	--	--	--
	81-04-21	--	--	--
	81-06-10	--	--	--
	81-07-08	--	--	--
	81-08-10	540	43	3100
	81-09-10	--	--	--

SONOMA COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	DATE OF SAMPLE	TIME	DEPTH OF WELL, TOTAL (FEET)	SPECIFIC CONDUCTANCE (UMH/CM)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)
3A3104122523001	008N009W02R01M	111ALVM	81-02-04	1330	--	270	7.0	16.5	.60
			81-03-25	0930	--	258	7.4	15.0	1.6
			81-06-09	0945	--	295	7.3	21.5	.30
3A3310122511801	008N009W09J01M	111ALVM	81-04-15	0910	60	359	6.8	17.5	.60
			81-09-24	1015	60	375	6.7	19.5	.30
3A3536122520401	009N009W28N02M	111ALVM	81-04-15	1000	70	375	7.2	17.0	1.0
			81-09-24	1120	70	371	6.9	16.5	.50
3A3655122530702	009N009W20F03M	111ALVM	81-02-04	1410	--	242	7.1	14.0	2.2
			81-03-23	1510	--	258	6.7	14.0	3.5
			81-06-09	1245	--	249	7.1	19.5	1.1
3A3958122554801	010N010W35R01M	111ALVM	81-04-15	1140	--	104	6.3	16.5	2.9
			81-09-24	1310	--	118	6.1	18.0	1.1
3A4221122574401	010N010W22D02M	111ALVM	81-04-15	1225	--	225	6.8	16.0	26
			81-09-24	1400	--	225	6.5	20.0	.40

Geologic unit (aquifer):

111TRRC - Terrace deposits.

1122SMRG - Santa Margarita Formation

111ALCRY - Alluvium of the Coast Range, younger (Pleistocene-Holocene).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SONOMA COUNTY--Continued

DATE OF SAMPLE	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (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)
81-02-04	130	11	26	16	8.2	12	.3	1.0	120	16	4.6	.1
81-03-25	120	14	25	15	8.4	13	.3	1.0	110	15	4.5	.1
81-06-09	140	6.0	28	16	10	14	.4	1.3	130	19	6.0	.1
81-04-15	180	15	36	23	9.4	10	.3	1.3	170	21	5.9	.1
81-09-24	200	28	38	25	9.8	10	.3	1.4	170	21	7.8	.1
81-04-15	180	9.0	24	29	14	14	.5	.8	170	21	7.7	.2
81-09-24	180	3.0	24	30	13	13	.5	.9	180	19	7.7	.2
81-02-04	110	.00	19	16	13	20	.5	.8	130	3.5	6.3	.1
81-03-23	120	.00	19	17	14	20	.6	.7	130	1.9	6.0	.2
81-06-09	110	.00	19	15	11	18	.5	.8	110	14	5.7	.1
81-04-15	36	13	6.9	4.5	6.4	28	.5	.3	23	11	5.5	.1
81-09-24	43	10	8.3	5.4	7.1	26	.5	.6	33	--	6.2	.1
81-04-15	100	23	17	14	10	18	.4	.5	77	24	6.2	.1
81-09-24	100	2.0	17	14	11	19	.5	.8	98	18	5.9	.1

DATE OF SAMPLE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	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)
81-02-04	16	164	.22	.70	0	210	<1	0	0	<10	3	.0
81-03-25	16	153	.21	.48	1	210	0	0	1	10	3	.0
81-06-09	16	177	.24	.36	0	350	<1	0	1	<10	0	.0
81-04-15	23	230	--	1.7	--	260	--	--	--	60	--	--
81-09-24	24	236	--	1.4	--	270	--	--	--	10	--	--
81-04-15	27	229	--	.75	--	140	--	--	--	70	--	--
81-09-24	27	233	--	.60	--	150	--	--	--	23	--	--
81-02-04	25	163	.22	.00	0	260	<1	0	3	40	2	.0
81-03-23	24	160	.22	.12	0	260	0	10	1	130	5	--
81-06-09	21	154	.21	.04	1	220	<1	0	2	30	1	.0
81-04-15	22	78	--	1.6	--	40	--	--	--	50	--	--
81-09-24	24	--	--	1.8	--	20	--	--	--	22	--	--
81-04-15	28	151	--	1.0	--	40	--	--	--	60	--	--
81-09-24	27	154	--	.34	--	130	--	--	--	30	--	--

DATE OF SAMPLE	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
81-02-04	210	11
81-03-25	0	2.3
81-06-09	10	3.6
81-04-15	--	10
81-09-24	--	3.3
81-04-15	--	5.3
81-09-24	--	7.8
81-02-04	750	9.8
81-03-23	540	1.6
81-06-09	450	4.5
81-04-15	--	2.2
81-09-24	--	.2
81-04-15	--	2.0
81-09-24	--	.2

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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