Water Resources Data for California

Water Year 1977

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

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-77-2

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

CALENDAR FOR WATER YEAR 1977

1976

OCTOBER

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NOVEMBER

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1977

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MAY

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JUNE

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JULY

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AUGUST

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SEPTEMBER

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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-77-2

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

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

For information on the water program in California write to
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Menlo Park, California 94025

1978

PREFACE

This report was prepared by personnel of the California District, Water Resources Division, U.S. Geological Survey, under the supervision of Lee R. Peterson, succeeded by Richard M. Bloyd, District Chief, and W. H. Robinson, Regional Hydrologist, Western Region. It was done in cooperation with the California Department of Water Resources and with other agencies.

This report is one of a series issued by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

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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14.

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16. Abstracts

Volume 2 of water resources data for the 1977 water year for California consists of records of stage, discharge, and water quality of streams and wells; stage, contents, and water quality in lakes and reservoirs; and water levels in wells. This report contains discharge records for 164 gaging stations; stage and contents for 20 lakes and reservoirs; water quality for 195 stations and 16 wells, water levels for 24 observation wells. Also included are 13 crest-stage partial-record stations and 139 low-flow partial-record stations. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in California.

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17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group

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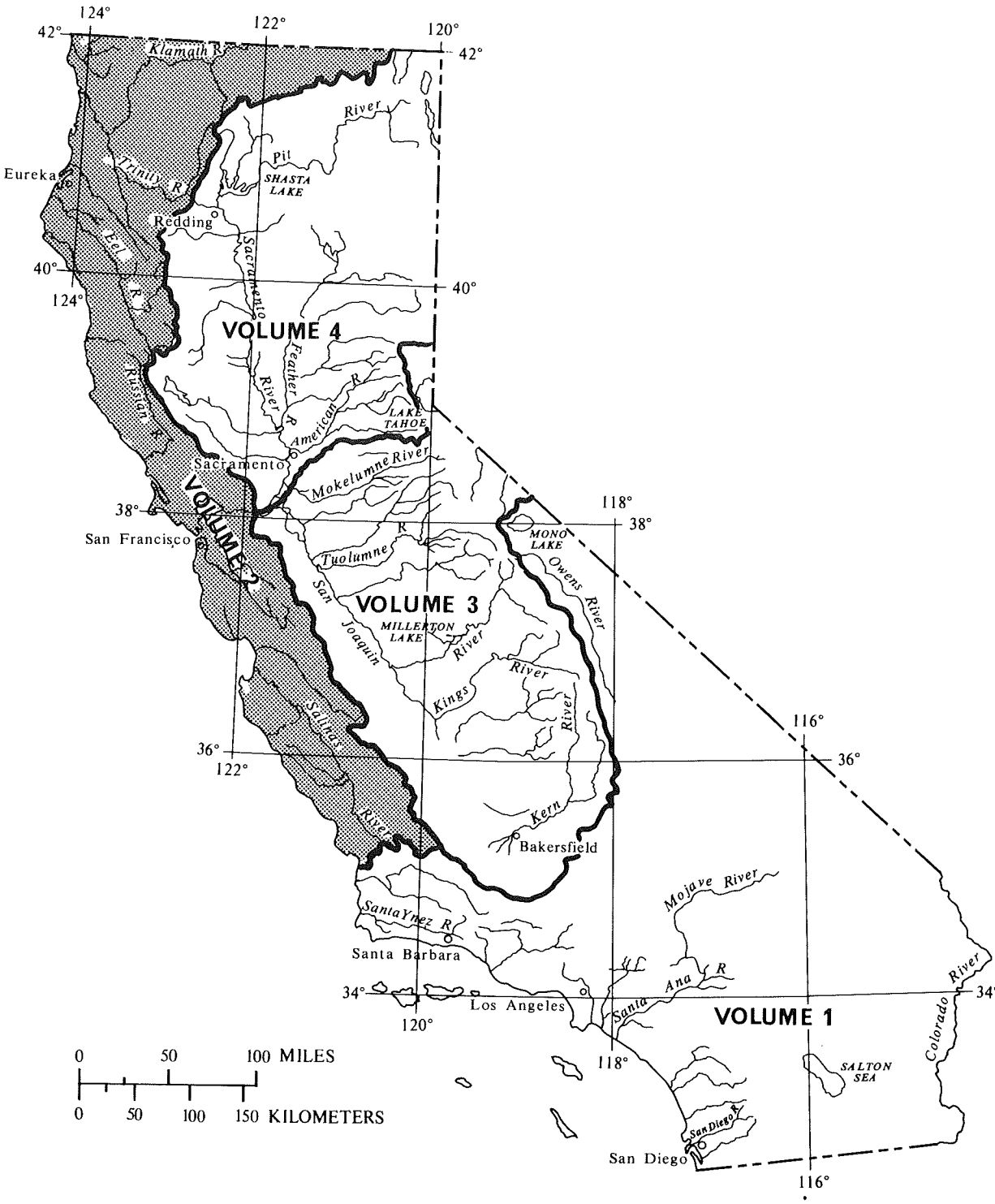

Area covered by volumes in the annual series on water-resources data for California. Area covered by this volume is shaded.

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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; (t), water temperature; and (s) sediment]

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WATER RESOURCES DATA FOR CALIFORNIA, 1977

Volume 2

INTRODUCTION

Water-resources data for the 1977 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. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of Winchell Smith, Assistant District Chief for Hydrologic Data, and Leonard N. Jorgensen, Chief, Basic-Data Section. These data, a contribution to the National Water Data System, were collected by the Geological Survey and cooperating local, State, and Federal agencies in California.

Records of discharge or stage of streams and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, Virginia 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released, either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report CA-77-2." Water-data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of California have had cooperative agreements for the systematic collection of records since 1903. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

California Department of Water Resources, R. B. Robie, Director.
Alameda County Flood Control and Water Conservation District, P. E. Lanferman, Engineer-Manager.
Alameda County Water District, M. P. Whitfield, General Manager-Chief Engineer.
Contra Costa County Flood Control and Water Conservation District, J. E. Taylor, Deputy Chief Engineer.
Marin County Department of Public Works, Ray W. Foreaker, Jr., Director.
Marin Municipal Water District, J. Dietrich Stroeh, General Manager.
Monterey County Flood Control and Water Conservation District, Loran Bunte, Jr., District Engineer.
Napa County Department of Public Works, Harry D. Hamilton, Director.
North Marin County Water District, John Olaf Nelson, Manager.
San Benito County Water Conservation and Flood Control District, Ralph G. Towle, District Secretary.
San Francisco, City and County Water Department, K. R. Boyd, General Manager.
San Luis Obispo County Engineering Department, G. C. Protopapas, County Engineer.
San Mateo County Department of Public Works, S. H. Cantwell, Jr., Director.
Santa Clara Valley Water District, J. T. O'Halloran, General Manager.
Santa Cruz County Flood Control and Water Conservation District, D. A. Porath, District Engineer.

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

The following organizations aided in collecting records: Pacific Power and Light Co., Pacific Gas and Electric Co., and East Bay Municipal Utility District.

HYDROLOGIC CONDITIONS

The drought, which started with the 1976 water year, continued during the 1977 water year. A persistent high-pressure ridge off the California coast displaced the usual winter storm path to a course generally north of California, and precipitation in most of northern California during the 1977 water year was less than one-third of normal. Over the entire State, precipitation was slightly more, averaging about 35 percent of normal.

Runoff during the first quarter of the water year was very deficient throughout the region. At the index station, Smith River near Crescent City, where records began in 1931, the December runoff decreased to 4 percent of the 30-year (1941-70) median. On December 31, 1976, the contents of major reservoirs in northern California were 68 percent of average storage. Drought conditions continued unabated during the second quarter (January to March). Although there were a few storms in various parts of the State during this

period, precipitation was much below normal and did not contribute significantly to runoff. Precipitation during the April-June quarter was variable and had only a slight effect on runoff. The contents of major reservoirs dropped to 41 percent of average. Runoff continued to be deficient during the last quarter. A general storm over northern California September 18-20 produced little runoff into reservoirs. Three inches (76 mm) of rain fell at Eureka, diminishing to about 0.5 inch (12.7 mm) in the San Francisco Bay area. This precipitation did little to alleviate the general drought condition that has persisted during the past 2 years. Contents of major reservoirs in northern California were 32 percent of average at the end of the water year.

The areal trend in runoff for the water year is shown in figure 1. Runoff at selected stations is given as a percentage of the median runoff for the 30-year period 1941-70. In the area covered by this volume, runoff ranged from 3 percent for Napa River near St. Helena to 45 percent for Arroyo Grande at Arroyo Grande. Average runoff for 10 index stations in this area was 16 percent of the 30-year median.

The quality of surface water varied seasonally throughout the area. Low flows caused by the drought resulted in most surface water having high concentrations of dissolved solids.

Ground-water levels in the north-coastal part of the State continued to drop for the second consecutive year. During the period spring 1976 to spring 1977 water levels declined generally from 1 to 5 feet (0.3 to 1.5 m).

DEFINITION OF TERMS

Terms related to streamflow, water-quality, ground-water, and other hydrologic data, as used in this report, are defined below. See also the table for converting U.S. customary 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 the 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, by decomposing organic matter into a form available for reuse by plants.

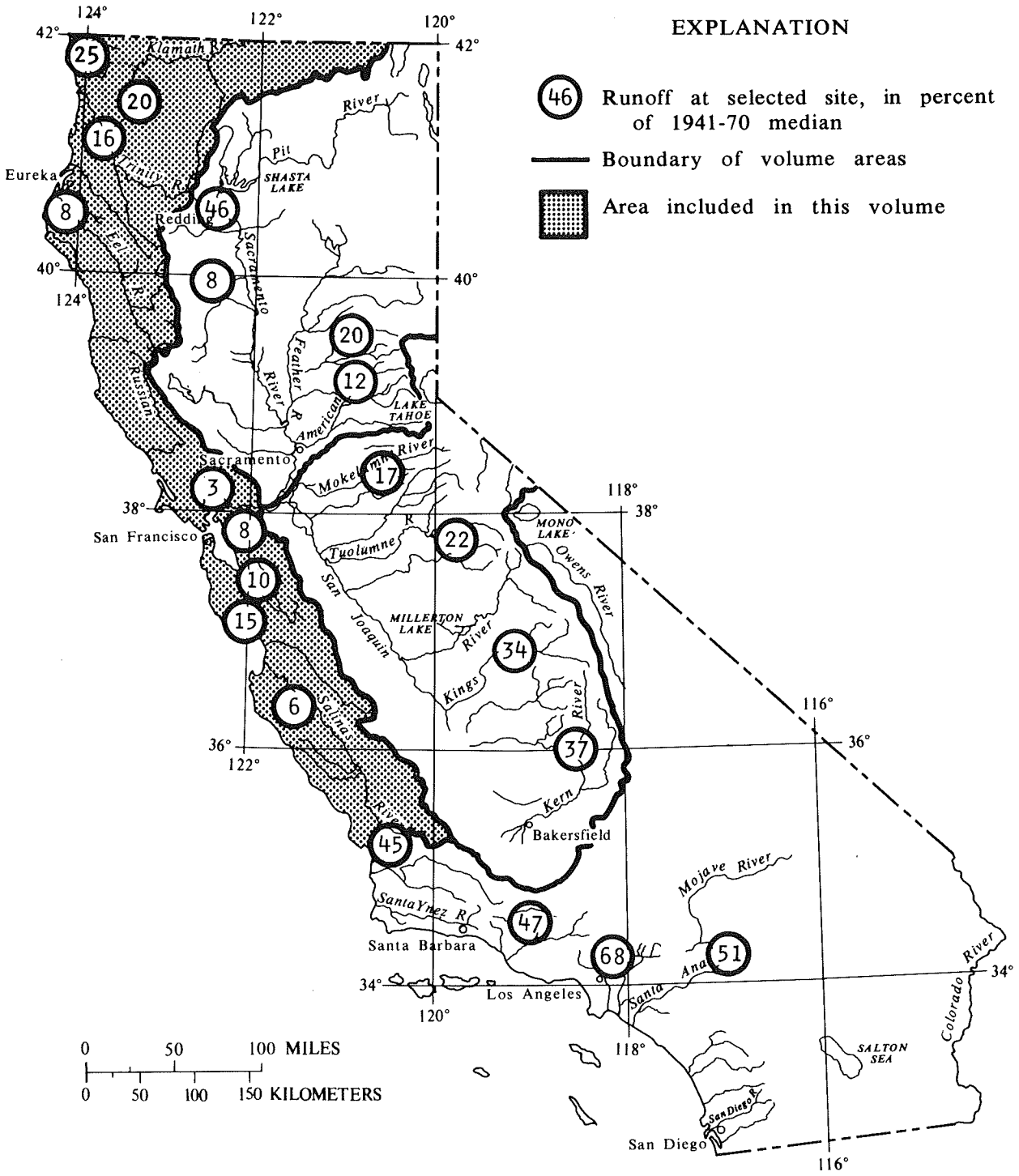

FIGURE 1.--Runoff for the current water year.

Bacteria (continued)

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. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

Fecal streptoccal bacteria are bacteria found also 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. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

Benthic organisms (invertebrates) are the group of animals inhabiting 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.

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 milliliters (mL) or liters (L).

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

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

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

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

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

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

Cubic foot per second (FT^3/S, ft^3/s), is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, total 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 refers to the amount of a substance present in true chemical solution. In practice, however, the term includes all forms of the substance that will pass through a 0.45-micrometer membrane filter and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

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

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

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa. 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.

Ft^3/s-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.

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 gage height or discharge 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 ($CaCO_3$).

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

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

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

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

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

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

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

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

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

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

Nekton are the consumers of 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 (disintegraions per minute).

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

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

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

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

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

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

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

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

Milligrams of carbon per area or volume per unit time [mg C/(m^2·time) for periphyton and macrophytes and mg C/(m^3·time) for phytoplankton] are the units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity 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 [mg $O^2/(m^2 \cdot time)$ for periphyton and macrophytes and mg $O^2/(m^3 \cdot time)$ 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.

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, that is discharged 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.

Substrate is the physical surface upon which an organism lives.

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

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

Surface area of a lake is the area, in 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.

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 quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Turbidity of a sample is the reduction of transparency due to the presence of particulate matter. In this report it is expressed in Jackson turbidity units (JTU). In the case of the Nephelometric method it is expressed in Nephelometric turbidity units (NTU), which is the intensity of light scattered at 90 degrees to the path of the incident light.

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 main-stream station are listed before that station. A station on a tributary that enters between two main-stream 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 indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention 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.

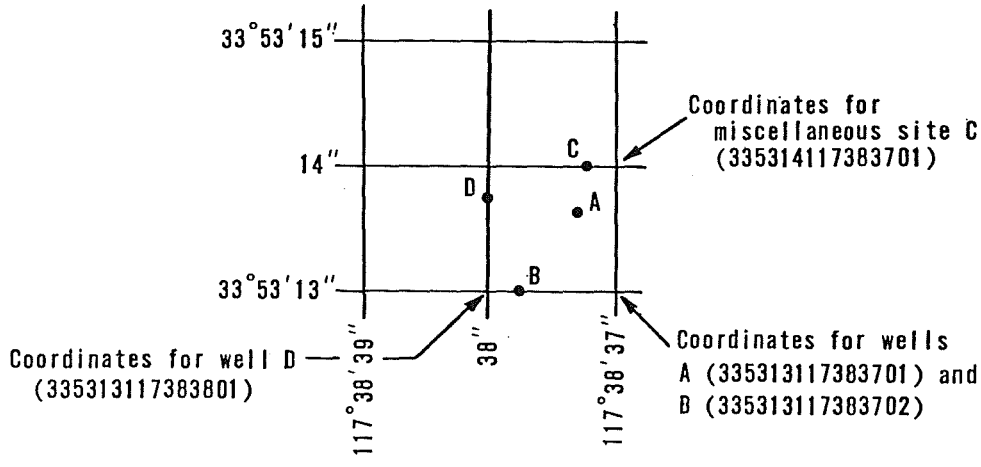

FIGURE 2.--System for numbering wells and miscellaneous sites (latitude and longitude).

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 5S/10E-22G1 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.

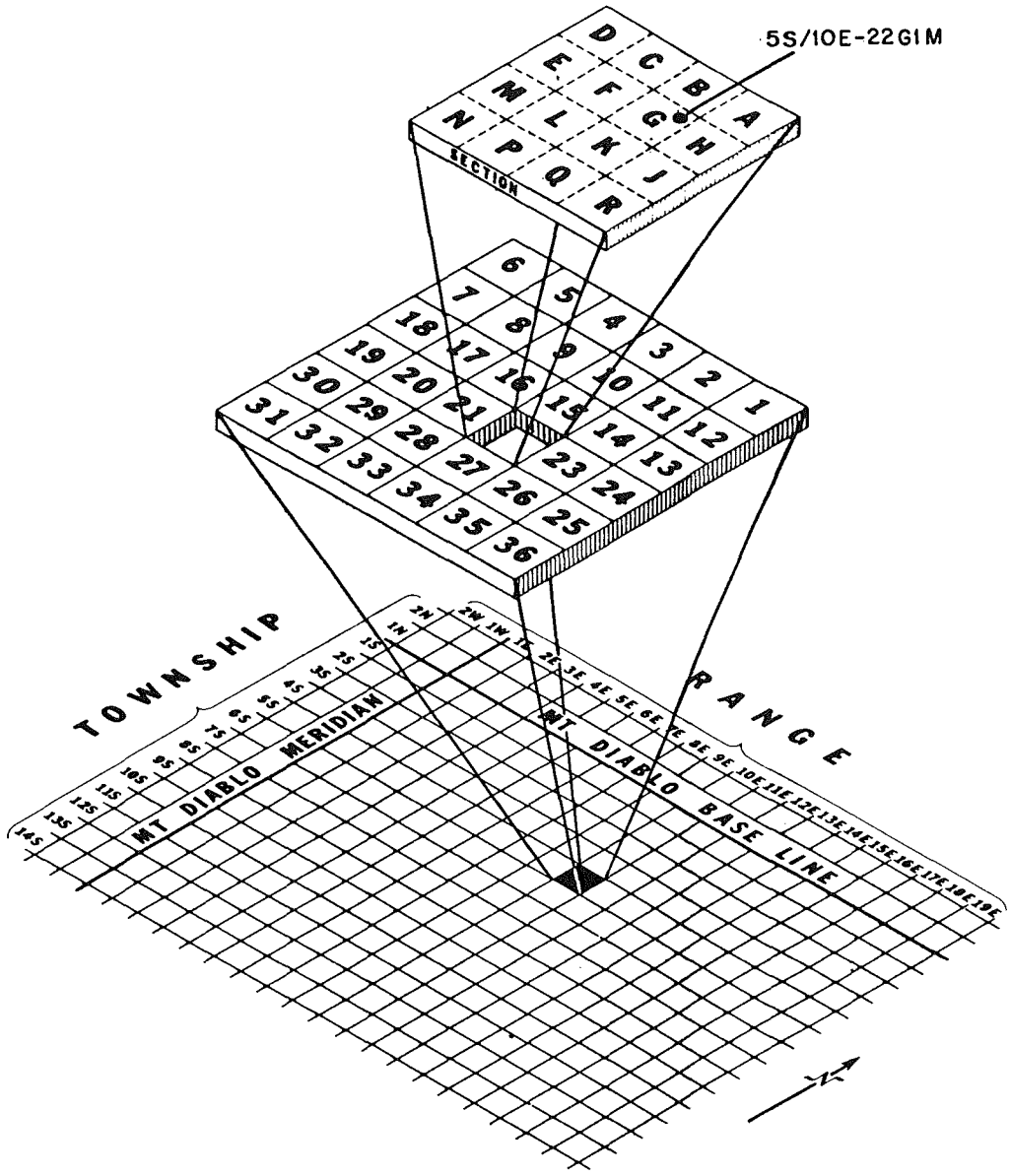

FIGURE 3.--California well-numbering system.

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:

11475500 Elder Creek near Branscomb, CA

Volume 3:

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

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

Volume 1:

09424190 Colorado River Aqueduct near San Jacinto, CA
09429500 Colorado River above Imperial Dam, AZ-CA
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
11074000 Santa Ana River below Prado Dam, CA
11103010 Los Angeles River at Willow Street Bridge, at Long Beach, CA

Volume 2:

11152300 Salinas River near Chualar, CA
11467000 Russian River near Guerneville, CA
11530500 Klamath River near Klamath, CA

Volume 3:

11250000 Friant-Kern Canal at Friant, CA
11303500 San Joaquin River near Vernalis, CA
11325500 Mokelumne River at Woodbridge, CA

Volume 4:

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 records of stage, 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. Measuremements 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 determined 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 instantaneous minimum

was revised; and "(P)" that only the peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given.

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE". In references to datum of gage, the phrase "mean sea level" denotes "National Geodetic Vertical Datum of 1929 (NGVD)" as used by the Topographic Division of the Geological Survey, unless otherwise qualified.

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. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. 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 instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks (including the maximum for the year) above the selected base, with the time of occurrence and corresponding gage heights, are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

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

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

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual

condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

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

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

Accuracy of field data and computed results

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

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

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

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

Other data available

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

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

Records of discharge collected by agencies other than the Geological Survey

Records of discharge not published by the Geological Survey have been collected at numerous sites by many other Federal, State, County, City, and local agencies and by private organizations. A listing of stream-gaging stations and the agencies operating them is published in California Department of Water Resources Bulletin 157, "Index of Stream-Gaging Stations in and Adjacent to California." 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 properties and constituents 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 Jackson turbidity units (JTU), is shown in relation to the concentration of sediment in the simultaneously collected sample.

Measured values of turbidity are significantly influenced by the type of instrument used. Turbidity values published in California reports prior to July 1966 were determined by means of a Hellige Turbidimeter and are not directly comparable with those published subsequently. Data published in parts per million as silica from July 1966 to September 1968, and in milligrams per liter as silica from October 1968 to September 1970, were measured with a model 1860 Hach Turbidimeter which is optically similar to the model 2100 Hach Turbidimeter used from October 1970 to September 1974, and the model 2100A Hach Turbidimeter used since October 1974. Scales are available for those instruments providing a readout in either milligrams per liter or in Jackson turbidity units. Hence, conversion of data for the period July 1966 through September 1970, from parts per million or milligrams per liter of silica to Jackson turbidity units can be made by use of table 1.

Table 1.--*Conversion of turbidity values, measured by Hach Turbidimeters Model 1860 or 2100, from parts per million or milligrams per liter of silica to Jackson turbidity units.*

Turbidity, in ppm or mg/L	Turbidity, in JTU
5	3
10	6
50	30
100	55
200	110
500	240
1000	440

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

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

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

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

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level 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 above mean sea level is given in the well description. The height of the measuring point (MP above or below land-surface datum), if known, is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

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

PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office). Prices are effective January 1978 but are subject to change.

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. *Water temperature-influential factors, field measurement, and data presentation,* by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages. $1.60.

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. $0.85.

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. $1.90.

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. $1.75.

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. $1.00.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalyrmple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. $0.35.

3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3, 1968. 60 pages. $0.40.

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. $1.00.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS--TWRI Book 3, Chapter A5, 1967. 29 pages. $0.35.

3-A6. *General procedure for gaging streams,* by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6, 1968. 13 pages. $1.00.

3-A7. *Stage measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. $1.40.

3-A8. *Discharge measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS-TWRI Book 3, Chapter A8. 1969. 65 pages. $1.25.

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. $1.20.

3-A12. *Fluormetric procedures for dye tracing,* by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. $0.35. Not currently available.

3-B1. *Aquifer-test design, observation, and data analyses,* by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. $0.70.

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. $2.50

3-C1. *Fluvial sediment concepts,* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. $0.65.

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. $2.50.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. $2.10.

4-A1. *Some statistical tools in hydrology,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. $1.60.
4-A2. *Frequency curves,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. $0.35.
4-B1. *Low-flow investigations,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. $0.65.
4-B2. *Storage analyses for water supply,* by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. $0.75.
4-B3. *Regional analyses of streamflow characteristics,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. $0.65.
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. $1.10.
5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases,* by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. $2.40.
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. $0.80.
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. $0.90.
5-A4.* *Methods for collection and analysis of aquatic biological and microbiological samples,* edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages. $20.00.
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. $16.00.
5-C1. *Laboratory theory and methods for sediment analyses,* by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. $2.10.
7-C1. *Finite-difference model for aquifer simultation 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. $2.30.
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. $0.70.
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. $1.10.

*These publications are available ONLY from Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. They are in looseleaf format and are subscription items. Additional supplements will be issued to subscribers at no extra cost. Checks should be made payable to Superintendent of Documents. Requester should emphasize to Superintendent of Documents that this is a subscription item.

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, 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 mi^2 (35.0 km^2).

WATER-DISCHARGE RECORDS

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 good. No regulation or diversion above station except for small stock ponds.

AVERAGE DISCHARGE.--10 years, 2.47 ft^3/s (0.070 m^3/s), 1,790 acre-ft/yr (2.21 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft^3/s (36.0 m^3/s) Jan. 25, 1969, gage height, 6.83 ft (2.082 m) in gage well, 6.57 ft (2.003 m) from floodmarks, from rating curve extended above 350 ft^3/s (9.91 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.12 ft^3/s (0.003 m^3/s) Sept. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.7 ft^3/s (0.22 m^3/s) Oct. 1, gage height, 4.42 ft (1.347 m), from rating curve extended above 1.9 ft^3/s (0.054 m^3/s) as explained above, no peak above base of 20 ft^3/s (0.6 m^3/s); maximum gage height, 4.44 ft (1.353 m) Mar. 16; minimum daily discharge, 0.12 ft^3/s (0.003 m^3/s) Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	.78	.65	1.1	1.1	.89	1.2	.95	.34	.33	.21	.31
2	2.1	.66	.65	1.7	1.1	.89	1.2	.72	.30	.32	.22	.30
3	1.1	.74	.65	1.6	1.1	.86	1.1	.68	.27	.35	.22	.28
4	.91	.81	.66	1.1	1.0	.88	1.1	.69	.26	.35	.23	.21
5	.89	.86	.69	1.1	1.0	.86	.95	.77	.25	.33	.25	.18
6	.88	.89	.73	1.2	.91	.89	.80	.77	.32	.31	.29	.16
7	.89	.88	.84	1.1	.89	1.1	.79	.99	.36	.32	.28	.12
8	.89	.89	.91	1.1	.93	1.1	.81	2.7	.43	.34	.27	.14
9	.87	.93	.91	1.1	.90	1.1	.89	3.4	.63	.36	.29	.15
10	.86	.95	.89	1.1	.93	1.2	.87	1.6	.78	.37	.31	.18
11	.89	1.6	.90	1.2	.90	1.2	.81	1.3	.72	.36	.28	.21
12	.87	1.2	.93	1.1	.89	1.2	.85	1.6	.61	.36	.24	.22
13	.83	.86	1.0	.89	.90	1.2	.80	1.7	.65	.36	.26	.26
14	.85	.87	.95	.89	.93	1.2	.77	1.3	.56	.37	.24	.29
15	.89	.89	.97	.89	.89	1.2	.77	1.3	.54	.33	.22	.30
16	.93	.86	1.0	.89	.91	4.2	.77	1.3	.44	.32	.19	.27
17	1.1	.89	1.1	.89	.94	2.1	.47	1.2	.55	.32	.21	.26
18	1.1	.88	1.2	.93	.93	1.6	.52	1.1	.56	.25	.24	.28
19	1.2	.87	1.2	1.1	.89	1.6	.55	1.0	.55	.21	.23	.28
20	1.0	.89	1.2	1.2	.89	1.5	.62	.98	.57	.24	.22	.27
21	.92	.89	1.2	1.2	1.1	1.5	.58	.91	.54	.24	.22	.26
22	.93	.89	.90	1.2	1.1	1.5	.63	1.0	.53	.22	.21	.29
23	.96	.89	.89	1.2	1.1	1.5	.60	1.1	.54	.22	.21	.30
24	.89	.89	.89	1.2	.97	1.5	.61	.98	.59	.23	.23	.35
25	.89	.89	.90	1.2	.91	1.5	.64	.82	.59	.24	.23	.39
26	.71	.92	.94	1.2	.94	1.5	.64	.76	.55	.20	.23	.41
27	.64	.89	.90	.98	.93	1.5	.72	.67	.52	.19	.22	.52
28	.64	.89	.91	1.2	.98	1.3	.56	.54	.46	.18	.19	.55
29	.67	.65	.94	1.1	---	1.2	.52	.51	.37	.19	.16	.56
30	.65	.64	2.5	.99	---	1.2	.57	.43	.39	.19	.17	.48
31	.68	---	3.0	1.1	---	1.2	---	.35	---	.18	.26	---
TOTAL	30.63	26.64	32.00	34.75	26.96	42.17	22.71	34.12	14.77	8.78	7.23	8.78
MEAN	.99	.89	1.03	1.12	.96	1.36	.76	1.10	.49	.28	.23	.29
MAX	3.0	1.6	3.0	1.7	1.1	4.2	1.2	3.4	.78	.37	.31	.56
MIN	.64	.64	.65	.89	.89	.86	.47	.35	.25	.18	.16	.12
AC-FT	61	53	63	69	53	84	45	68	29	17	14	17

CAL YR 1976 TOTAL 378.52 MEAN 1.03 MAX 4.9 MIN .18 AC-FT 751
WTR YR 1977 TOTAL 289.54 MEAN .79 MAX 4.2 MIN .12 AC-FT 574

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-73, 1977.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1968-73.
SEDIMENT RECORDS: Water years 1967-73.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1967 to September 1973.
SEDIMENT RECORDS: October 1967 to September 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 11...	1325	.28	680	7.6	20.5	7.9	330	21	110

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 11...	14	32	17	.8	2.0	380	0	310	67

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 11...	25	.3	.3	438	.60	.33	.03	50	20

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, on right bank 0.7 mi (1.1 km) upstream from small right-bank tributary, 3.2 mi (5.1 km) upstream from mouth, and 9.2 mi (14.8 km) northeast of Arroyo Grande.

DRAINAGE AREA.--21.6 mi^2 (55.9 km^2).

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--10 years, 9.33 ft^3/s (0.264 m^3/s), 6,760 acre-ft/yr (8.34 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft^3/s (80.1 m^3/s) Jan. 25, 1969, gage height, 9.26 ft (2.822 m) in gage well, 10.8 ft (3.29 m) from floodmarks, from rating curve extended above 300 ft^3/s (8.50 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft^3/s (0.008 m^3/s) Aug. 1, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15 ft^3/s (0.42 m^3/s) Jan. 3, gage height, 3.76 ft (1.146 m), no peak above base of 50 ft^3/s (1.4 m^3/s); minimum daily, 0.30 ft^3/s (0.008 m^3/s) Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	1.8	2.2	4.8	2.3	2.2	2.7	1.9	1.6	.92	.30	.61
2	3.1	1.8	2.2	4.8	2.3	2.2	2.6	2.0	1.6	.98	.34	.62
3	2.8	1.8	2.2	9.0	2.2	2.2	2.5	1.9	1.5	1.0	.38	.59
4	2.6	1.8	2.2	4.9	2.3	2.2	2.5	1.6	1.6	1.0	.41	.49
5	2.5	1.8	2.2	4.2	2.3	2.2	2.5	1.7	1.6	.97	.39	.43
6	2.4	1.8	2.2	4.3	2.4	2.2	2.4	1.7	1.6	.97	.39	.45
7	2.4	1.8	2.1	4.1	2.5	2.2	2.4	1.9	1.6	.93	.43	.45
8	2.5	1.8	2.2	3.7	2.5	2.2	2.5	2.8	1.7	.96	.38	.45
9	2.4	1.8	2.2	3.6	2.5	2.2	2.4	3.8	1.5	.91	.40	.52
10	2.2	1.8	2.2	3.4	2.6	2.2	2.3	3.1	1.6	.93	.45	.61
11	2.2	2.2	2.2	3.2	2.7	2.2	2.3	2.9	1.6	.86	.47	.67
12	2.2	2.6	2.2	3.1	2.7	2.2	2.3	3.1	1.5	.88	.54	.72
13	2.2	2.4	2.2	3.1	2.6	2.2	2.3	3.2	1.6	.88	.48	.81
14	2.1	2.3	2.2	3.0	2.3	2.2	2.3	2.7	1.7	.84	.45	.85
15	2.0	2.3	2.2	2.9	2.3	2.2	2.2	2.6	1.6	.79	.42	.82
16	2.0	2.3	2.2	2.9	2.3	4.2	2.2	2.4	1.6	.76	.47	.84
17	1.8	2.3	2.2	2.9	2.2	3.4	2.2	2.3	1.5	.79	.51	.88
18	1.9	2.3	2.2	2.9	2.2	2.9	2.1	2.3	1.5	.74	.54	.92
19	2.0	2.3	2.2	2.9	2.2	2.5	2.0	2.3	1.5	.72	.50	.93
20	2.0	2.3	2.2	2.5	2.2	2.6	1.9	2.3	1.3	.73	.43	1.0
21	2.0	2.3	2.2	2.5	2.3	2.6	1.8	2.0	1.3	.65	.46	1.0
22	2.1	2.3	2.2	2.5	2.5	2.5	1.7	2.0	1.3	.57	.49	1.0
23	2.2	2.3	2.2	2.5	2.5	2.5	1.7	2.3	1.3	.48	.50	1.1
24	2.0	2.3	2.2	2.5	2.7	2.5	1.6	2.3	1.2	.51	.44	1.1
25	2.1	2.3	2.2	2.5	2.7	2.7	1.5	2.3	1.2	.50	.42	1.0
26	2.1	2.3	2.2	2.3	2.5	2.7	1.5	2.1	1.2	.41	.41	1.0
27	2.0	2.2	2.2	2.3	2.5	2.6	1.5	2.0	1.2	.39	.43	1.1
28	2.0	2.2	2.2	2.3	2.5	2.4	1.5	1.9	1.2	.35	.36	1.1
29	2.0	2.2	2.2	2.3	---	2.3	1.5	1.8	1.1	.34	.33	1.2
30	2.0	2.2	3.1	2.3	---	2.4	1.5	1.8	.90	.33	.41	1.2
31	1.8	---	7.6	2.3	---	2.6	---	1.7	---	.32	.58	---
TOTAL	69.3	63.9	74.4	102.5	67.8	76.4	62.4	70.7	43.20	22.41	13.51	24.46
MEAN	2.24	2.13	2.40	3.31	2.42	2.46	2.08	2.28	1.44	.72	.44	.82
MAX	3.7	2.6	7.6	9.0	2.7	4.2	2.7	3.8	1.7	1.0	.58	1.2
MIN	1.8	1.8	2.1	2.3	2.2	2.2	1.5	1.6	.90	.32	.30	.43
AC-FT	137	127	148	203	134	152	124	140	86	44	27	49

CAL YR 1976 TOTAL 879.47 MEAN 2.40 MAX 17 MIN .72 AC-FT 1740
WTR YR 1977 TOTAL 690.98 MEAN 1.89 MAX 9.0 MIN .30 AC-FT 1370

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-72, 1977.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1968-72.
SEDIMENT RECORDS: Water years 1968-72.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1967 to September 1972.
SEDIMENT RECORDS: October 1967 to September 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 11...	1530	.57	800	7.8	24.5	10.1	400	79	87

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 11...	44	13	7	.3	2.1	390	0	320	100

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 11...	13	.4	20	472	.64	.73	.01	30	10

11141400 TAR SPRING CREEK NEAR ARROYO GRANDE, CA

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

DRAINAGE AREA.--18.2 mi^2 (47.1 km^2).

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

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

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

AVERAGE DISCHARGE.--10 years, 2.57 ft^3/s (0.073 m^3/s), 1,860 acre-ft/yr (2.29 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,340 ft^3/s (37.9 m^3/s) Jan. 25, 1969, gage height, 10.1 ft (3.08 m) from floodmarks, from rating curve extended above 68 ft^3/s (1.93 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.7 ft^3/s (0.13 m^3/s) Oct. 1, gage height, 4.04 ft (1.231 m), no peak above base of 20 ft^3/s (0.6 m^3/s); minimum daily, 0.02 ft^3/s (0.001 m^3/s) Mar. 3-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	.15	.12	.10	.08	.04	.09	.12	.09	.15	.12	.09
2	.20	.13	.12	.09	.09	.03	.09	.12	.09	.15	.12	.09
3	.10	.12	.12	.09	.09	.02	.09	.12	.07	.15	.14	.09
4	.13	.12	.12	.09	.09	.02	.09	.10	.06	.15	.15	.09
5	.12	.15	.12	.09	.09	.02	.09	.09	.06	.14	.12	.09
6	.12	.16	.12	.09	.09	.02	.09	.09	.06	.12	.12	.09
7	.09	.15	.12	.10	.09	.02	.09	.10	.06	.12	.12	.09
8	.09	.15	.12	.12	.09	.02	.06	.14	.06	.12	.12	.09
9	.12	.15	.12	.12	.09	.03	.06	.12	.07	.14	.12	.09
10	.12	.15	.12	.11	.07	.04	.06	.09	.06	.15	.11	.09
11	.12	.16	.12	.09	.06	.04	.06	.09	.06	.15	.09	.09
12	.11	.15	.12	.09	.06	.04	.06	.09	.06	.15	.09	.09
13	.10	.15	.12	.09	.06	.04	.06	.09	.06	.15	.09	.09
14	.12	.15	.12	.09	.06	.04	.06	.09	.06	.15	.09	.09
15	.12	.14	.12	.09	.06	.04	.06	.09	.08	.15	.09	.08
16	.12	.12	.11	.09	.06	.10	.06	.09	.09	.15	.09	.06
17	.12	.12	.12	.09	.06	.06	.06	.09	.09	.15	.09	.06
18	.12	.12	.12	.09	.06	.06	.06	.09	.09	.15	.09	.06
19	.12	.12	.12	.09	.10	.06	.06	.09	.11	.15	.09	.06
20	.12	.12	.12	.06	.11	.06	.06	.09	.12	.15	.09	.06
21	.12	.12	.12	.06	.06	.06	.08	.09	.12	.15	.09	.06
22	.12	.12	.09	.06	.06	.06	.09	.07	.14	.14	.09	.06
23	.12	.12	.11	.06	.06	.08	.09	.06	.15	.12	.09	.06
24	.12	.12	.09	.06	.04	.09	.09	.07	.13	.12	.09	.06
25	.12	.12	.09	.06	.04	.12	.08	.09	.12	.13	.09	.06
26	.12	.12	.09	.06	.04	.09	.06	.09	.12	.12	.09	.06
27	.14	.12	.12	.06	.04	.09	.08	.09	.12	.13	.09	.06
28	.16	.12	.09	.06	.04	.09	.09	.09	.14	.15	.09	.06
29	.19	.12	.09	.06	---	.09	.11	.09	.15	.15	.09	.06
30	.20	.12	.10	.06	---	.09	.12	.08	.15	.15	.09	.06
31	.24	---	.12	.06	---	.09	---	.08	---	.12	.09	---
TOTAL	4.67	3.98	3.50	2.53	1.94	1.75	2.30	2.89	2.84	4.37	3.13	2.24
MEAN	.15	.13	.11	.082	.069	.057	.077	.093	.095	.14	.10	.075
MAX	.76	.16	.12	.12	.11	.12	.12	.14	.15	.15	.15	.09
MIN	.09	.12	.09	.06	.04	.02	.06	.06	.06	.12	.09	.06
AC-FT	9.3	7.9	6.9	5.0	3.8	3.5	4.6	5.7	5.6	8.7	6.2	4.4

CAL YR 1976 TOTAL 127.28 MEAN .35 MAX 1.9 MIN .06 AC-FT 252
WTR YR 1977 TOTAL 36.14 MEAN .099 MAX .76 MIN .02 AC-FT 72

11141500 ARROYO GRANDE AT ARROYO GRANDE, CA

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

DRAINAGE AREA.--102 mi^2 (264 km^2).

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

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

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 97.77 ft (29.800 m) above mean sea level. 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 hm^3). Many small and intermittent diversions by pumping from stream for irrigation of about 4,000 acres (16.2 km^2) above station.

AVERAGE DISCHARGE.--29 years (water years 1940-68), 19.4 ft^3/s (0.549 m^3/s), 14,060 acre-ft/yr (17.3 hm^3/yr); 9 years (water years 1969-77), 11.8 ft^3/s (0.334 m^3/s), 8,550 acre-ft/yr (10.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft^3/s (153 m^3/s) Dec. 6, 1966, gage height, 12.88 ft (3.926 m); no flow for several days in some years. Maximum discharge since construction of Lopez Dam in 1968, 2,990 ft^3/s (84.7 m^3/s) Feb. 24, 1969, gage height, 9.48 ft (2.890 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19 ft^3/s (0.54 m^3/s) Mar. 16, gage height, 2.00 ft (0.610 m); minimum daily, 0.61 ft^3/s (0.017 m^3/s) Feb. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	2.9	2.6	3.0	2.6	2.7	7.5	3.6	5.1	3.7	2.1	4.4
2	6.9	2.5	1.6	3.0	2.5	3.0	6.7	3.2	5.1	2.8	3.2	3.2
3	6.0	1.8	1.8	3.2	2.1	2.7	6.7	2.6	5.8	3.0	4.1	1.9
4	6.0	1.8	2.3	3.0	2.7	3.1	5.8	2.3	4.5	4.2	3.3	1.8
5	5.6	1.8	2.2	3.2	2.9	3.3	6.6	1.4	5.7	3.4	2.1	2.0
6	5.6	1.9	1.7	3.2	2.3	3.5	5.8	3.1	4.4	2.9	3.0	3.8
7	5.6	2.0	1.9	3.1	1.7	4.1	5.9	3.5	4.9	2.7	2.1	2.9
8	5.5	2.2	1.5	3.0	2.2	3.5	5.6	7.9	4.1	3.1	2.9	2.9
9	5.5	2.4	2.8	2.8	1.9	2.8	4.3	8.7	2.5	4.2	2.2	2.4
10	5.5	2.1	2.6	2.9	1.2	4.0	4.4	6.7	3.9	3.1	4.0	2.8
11	5.6	2.9	2.1	3.1	1.1	3.2	5.3	5.3	2.5	3.8	4.2	2.5
12	5.2	3.7	2.1	3.1	.61	2.7	4.8	5.7	1.9	3.2	3.5	3.6
13	4.5	3.5	2.0	3.0	.61	3.7	4.2	6.1	2.7	3.6	4.5	4.1
14	4.0	3.6	2.6	2.9	1.3	3.7	4.9	6.3	2.0	3.0	5.0	5.0
15	3.5	3.9	2.3	2.5	1.6	4.7	4.3	5.4	2.5	4.0	4.3	3.4
16	3.7	3.5	2.3	3.0	1.5	10	4.4	5.6	3.3	2.8	4.4	3.6
17	4.1	3.6	1.8	2.8	2.4	7.3	3.5	5.2	3.4	3.3	3.0	2.7
18	4.3	3.5	1.9	2.9	1.4	6.8	2.8	5.8	2.5	4.2	3.1	2.1
19	3.5	3.3	2.0	3.2	2.1	7.0	3.4	6.1	3.8	3.6	3.4	3.0
20	3.7	3.8	2.1	2.7	1.1	7.2	2.8	5.0	3.6	3.0	4.1	4.0
21	3.7	3.5	2.1	3.6	1.7	6.7	3.1	5.8	2.8	3.3	3.9	3.5
22	3.3	3.8	2.4	3.2	.99	6.9	2.8	6.5	3.2	2.8	4.2	3.6
23	3.6	3.0	1.2	3.6	2.3	7.6	2.7	6.5	4.2	1.7	3.5	3.0
24	2.9	2.8	.86	3.3	2.1	8.0	3.3	7.1	2.4	2.5	2.8	3.3
25	3.3	2.0	1.7	3.3	1.3	8.1	4.0	8.0	3.6	3.5	2.9	2.3
26	3.7	3.1	1.8	3.8	1.9	7.8	3.4	7.6	3.6	2.1	1.2	3.5
27	2.3	2.5	1.4	2.0	2.5	7.5	3.3	7.2	3.6	1.3	1.7	4.2
28	1.5	2.1	1.1	2.4	2.5	7.2	3.7	6.7	2.8	.62	3.0	4.2
29	2.2	3.2	.97	2.6	---	7.1	3.9	6.8	3.4	.67	4.2	3.3
30	1.8	3.2	2.7	2.8	---	7.4	4.0	6.4	3.0	1.4	2.8	2.4
31	3.2	---	3.9	2.7	---	6.7	---	5.9	---	2.0	2.4	---
TOTAL	131.6	85.9	62.33	92.9	51.11	170.0	133.9	174.0	106.8	89.49	101.1	95.4
MEAN	4.25	2.86	2.01	3.00	1.83	5.48	4.46	5.61	3.56	2.89	3.26	3.18
MAX	6.9	3.9	3.9	3.8	2.9	10	7.5	8.7	5.8	4.2	5.0	5.0
MIN	1.5	1.8	.86	2.0	.61	2.7	2.7	1.4	1.9	.62	1.2	1.8
AC-FT	261	170	124	184	101	337	266	345	212	178	201	189

CAL YR 1976 TOTAL 1321.65 MEAN 3.61 MAX 14 MIN .29 AC-FT 2620
WTR YR 1977 TOTAL 1294.53 MEAN 3.55 MAX 10 MIN .61 AC-FT 2570

11141600 LOS BERROS CREEK NEAR NIPOMO, CA

LOCATION.--Lat 35°05'17", long 120°30'32", in Nipomo Grant (on boundary), San Luis Obispo County, on left bank at upstream side of bridge, 0.8 mi (1.3 km) downstream from Adobe Creek, and 3.7 mi (6.0 km) northwest of Nipomo.

DRAINAGE AREA.--15.0 mi^2 (38.8 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and broad-crested weir. Altitude of gage is 312 ft (95 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record July 8 to Aug. 11, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--9 years, 1.84 ft^3/s (0.052 m^3/s), 1,330 acre-ft/yr (1.64 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 599 ft^3/s (17.0 m^3/s) Jan. 25, 1969, gage height, 5.43 ft (1.655 m), from rating curve extended above 230 ft^3/s (6.51 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.01 ft^3/s (<0.001 m^3/s) Nov. 3, 1972, Nov. 14, 1973, Sept. 8-17, 19-30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.3 ft^3/s (0.037 m^3/s) Oct. 1, gage height, 1.40 ft (0.427 m), no peak above base of 7.0 ft^3/s (0.2 m^3/s); minimum daily, 0.01 ft^3/s (<0.001 m^3/s) Sept. 8-17, 19-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	.41	.41	.29	.46	.37	.31	.36	.31	.15	.10	.09
2	.26	.41	.41	.30	.46	.39	.34	.34	.31	.12	.11	.08
3	.24	.34	.41	.31	.43	.41	.33	.36	.30	.14	.11	.07
4	.24	.31	.41	.31	.41	.41	.31	.32	.27	.14	.12	.05
5	.25	.31	.41	.31	.41	.41	.31	.33	.27	.14	.10	.04
6	.24	.31	.41	.35	.41	.39	.31	.34	.27	.13	.10	.02
7	.24	.31	.37	.36	.41	.37	.31	.35	.28	.12	.10	.02
8	.26	.31	.36	.36	.41	.36	.31	.54	.31	.12	.10	.01
9	.27	.31	.34	.36	.41	.36	.31	.59	.29	.13	.10	.01
10	.27	.31	.31	.36	.36	.36	.31	.48	.24	.15	.07	.01
11	.27	.38	.32	.36	.36	.36	.33	.46	.26	.12	.06	.01
12	.30	.37	.32	.36	.36	.46	.30	.46	.24	.12	.06	.01
13	.31	.36	.31	.36	.36	.44	.27	.45	.24	.12	.05	.01
14	.31	.36	.31	.36	.36	.44	.31	.38	.24	.12	.04	.01
15	.31	.34	.31	.36	.36	.38	.31	.40	.21	.12	.05	.01
16	.31	.36	.31	.36	.35	.55	.35	.39	.21	.12	.04	.01
17	.36	.36	.31	.36	.36	.44	.39	.39	.21	.12	.05	.01
18	.36	.36	.31	.36	.40	.41	.38	.41	.21	.12	.04	.02
19	.36	.36	.31	.39	.41	.39	.37	.39	.21	.12	.05	.01
20	.41	.36	.31	.37	.41	.41	.36	.36	.21	.12	.03	.01
21	.41	.36	.29	.40	.41	.40	.36	.36	.21	.12	.03	.01
22	.41	.36	.24	.41	.41	.41	.38	.41	.21	.11	.04	.01
23	.41	.36	.24	.41	.39	.41	.38	.41	.17	.10	.05	.01
24	.41	.36	.24	.44	.36	.41	.38	.41	.13	.10	.08	.01
25	.41	.36	.26	.46	.36	.42	.39	.41	.12	.10	.10	.01
26	.41	.36	.24	.46	.36	.42	.36	.41	.12	.10	.11	.01
27	.41	.37	.24	.46	.36	.38	.36	.41	.12	.10	.16	.01
28	.41	.37	.24	.46	.36	.36	.36	.39	.15	.12	.14	.01
29	.39	.41	.24	.46	---	.36	.36	.36	.15	.12	.12	.01
30	.41	.41	.33	.46	---	.34	.37	.36	.15	.12	.14	.01
31	.43	---	.36	.46	---	.31	---	.34	---	.10	.10	---
TOTAL	10.40	10.66	9.88	11.83	10.91	12.33	10.22	12.37	6.62	3.73	2.55	.61
MEAN	.34	.36	.32	.38	.39	.40	.34	.40	.22	.12	.082	.020
MAX	.43	.41	.41	.46	.46	.55	.39	.59	.31	.15	.16	.09
MIN	.24	.31	.24	.29	.35	.31	.27	.32	.12	.10	.03	.01
AC-FT	21	21	20	23	22	24	20	25	13	7.4	5.1	1.2

CAL YR 1976 TOTAL 134.76 MEAN .37 MAX 1.2 MIN .07 AC-FT 267
WTR YR 1977 TOTAL 102.11 MEAN .28 MAX .59 MIN .01 AC-FT 203

11141600 LOS BERROS CREEK NEAR NIPOMO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 11...	0845	.06	1100	8.1	17.0	10.1	510	150	100

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 11...	63	46	16	.9	3.8	440	0	360	170

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 11...	54	.5	35	689	.94	.11	.01	50	10

11142080 MORRO CREEK AT MORRO BAY, CA

LOCATION.--Lat 35°22'42", long 120°51'12", in Moro Y Cayucos Grant, San Luis Obispo County, on left bank at upstream side of frontage road bridge in town of Morro Bay, and 700 ft (213 m) downstream from Little Morro Creek.

DRAINAGE AREA.--24.0 mi^2 (62.2 km^2).

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

GAGE.--Water-stage recorder. Concrete control since Nov. 7, 1971. Altitude of gage is 20 ft (6.1 m), from topographic map.

REMARKS.--Records good. No regulation; small diversion above station for individual use.

AVERAGE DISCHARGE.--7 years, 6.92 ft^3/s (0.196 m^3/s), 5,010 acre-ft/yr (6.18 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,960 ft^3/s (55.5 m^3/s) Jan. 18, 1973, gage height, 10.38 ft (3.164 m), from rating curve extended above 440 ft^3/s (12.5 m^3/s) on basis of slope-area measurement of maximum flow; no flow for long periods in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft^3/s (0.74 m^3/s) Dec. 31, gage height, 3.27 ft (0.997 m), no peak above base of 60 ft^3/s (1.7 m^3/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	0	0	1.5	.37	.05		0				
2	.03	0	0	2.2	.32	.04		0				
3	0	0	0	3.2	.27	.03		0				
4	0	0	0	1.6	.20	0		0				
5	0	0	0	1.6	.15	0		0				
6	0	0	0	3.3	.05	0		0				
7	0	0	0	1.5	.01	0		0				
8	0	0	0	1.2	0	0		.02				
9	0	0	0	.95	0	0		0				
10	0	0	0	.80	.01	0		0				
11	0	.03	0	.75	.08	0		0				
12	0	.01	0	.72	.03	0		0				
13	0	0	0	.68	0	0		0				
14	0	0	0	.64	0	0		0				
15	0	0	0	.60	.07	0		0				
16	0	0	0	1.1	.09	.88		0				
17	0	0	0	2.0	.06	.19		0				
18	0	0	0	1.3	.01	.05		0				
19	0	0	0	.42	0	.10		0				
20	0	0	0	.37	.06	.09		0				
21	0	0	0	.26	.04	.08		0				
22	0	0	0	.26	.02	.08		0				
23	0	0	0	.30	.12	.03		0				
24	0	0	0	.29	.13	.16		0				
25	0	0	0	.35	.21	.16		0				
26	0	0	0	.38	.12	.10		0				
27	0	0	0	.36	.09	.06		0				
28	0	0	0	.25	.07	.05		0				
29	0	0	0	.40	---	.02		0				
30	0	0	0	.52	---	0		0				
31	0	---	3.9	.28	---	0	---	0	---			---
TOTAL	.68	.04	3.9	30.08	2.58	2.17	0	.02	0	0	0	0
MEAN	.022	.001	.13	.97	.092	.070	0	.0006	0	0	0	0
MAX	.65	.03	3.9	3.3	.37	.88	0	.02	0	0	0	0
MIN	0	0	0	.25	0	0	0	0	0	0	0	0
AC-FT	1.3	.08	7.7	60	5.1	4.3	0	.04	0	0	0	0

CAL YR 1976 TOTAL 62.85 MEAN .17 MAX 3.9 MIN 0 AC-FT 125
WTR YR 1977 TOTAL 39.47 MEAN .11 MAX 3.9 MIN 0 AC-FT 78

11142100 TORO CREEK NEAR MORRO BAY, CA

LOCATION.--Lat 35°25'31", long 120°51'33", in Moro Y Cayucos Grant, San Luis Obispo County, on left bank at downstream side of county road bridge, 0.3 mi (0.5 km) downstream from small right-bank tributary, and 2.3 mi (3.7 km) north of town of Morro Bay.

DRAINAGE AREA.--14.0 mi^2 (36.3 km^2).

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

GAGE.--Water-stage recorder. Concrete control since Aug. 2, 1972. Altitude of gage is 40 ft (12 m), from topographic map.

REMARKS.--Records good. No regulation; small diversion above station for individual use.

AVERAGE DISCHARGE.--7 years, 4.62 ft^3/s (0.131 m^3/s), 3,350 acre-ft/yr (4.13 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,600 ft^3/s (130 m^3/s) Jan. 18, 1973, gage height, 9.65 ft (2.941 m), from rating curve extended above 140 ft^3/s (3.96 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18 ft^3/s (0.51 m^3/s) Dec. 31, gage height, 1.53 ft (0.466 m), no peak above base of 40 ft^3/s (1.1 m^3/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.17	.19	.08	.21	.01				
2			0	1.5	.20	.08	.20	.01				
3			0	.84	.21	.07	.20	.01				
4			0	.28	.23	.05	.19	.01				
5			0	.28	.24	.06	.19	.01				
6			0	1.4	.23	.06	.16	.01				
7			0	.40	.21	.06	.17	.02				
8			0	.31	.21	.07	.16	.10				
9			0	.26	.21	.07	.16	.13				
10			0	.24	.21	.06	.12	.07				
11			0	.24	.19	.06	.12	.05				
12			0	.24	.19	.06	.10	.05				
13			0	.24	.20	.06	.08	.05				
14			0	.24	.21	.05	.08	.04				
15			0	.24	.20	.25	.04	.04				
16			0	.24	.19	1.0	.06	.04				
17			0	.20	.19	.32	.06	.03				
18			0	.17	.15	.25	.06	.03				
19			0	.17	.13	.21	.05	.02				
20			0	.17	.11	.21	.03	.01				
21			0	.17	.11	.21	.02	0				
22			0	.17	.11	.20	.02	0				
23			0	.17	.11	.20	.01	.02				
24			0	.17	.10	.24	.01	.01				
25			0	.17	.09	.25	.01	0				
26			0	.17	.09	.23	.01	0				
27			0	.17	.09	.21	.01	0				
28			0	.17	.09	.19	.01	0				
29			0	.18	---	.19	.01	0				
30			0	.19	---	.21	.01	0				
31		---	1.3	.19	---	.22	---	0	---			---
TOTAL	0	0	1.3	9.75	4.69	5.48	2.56	.77	0	0	0	0
MEAN	0	0	.042	.31	.17	.18	.085	.025	0	0	0	0
MAX	0	0	1.3	1.5	.24	1.0	.21	.13	0	0	0	0
MIN	0	0	0	.17	.09	.05	.01	0	0	0	0	0
AC-FT	0	0	2.6	19	9.3	11	5.1	1.5	0	0	0	0

CAL YR 1976 TOTAL 93.06 MEAN .25 MAX 3.6 MIN 0 AC-FT 185
WTR YR 1977 TOTAL 24.55 MEAN .067 MAX 1.5 MIN 0 AC-FT 49

11142500 ARROYO DE LA CRUZ NEAR SAN SIMEON, CA

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

DRAINAGE AREA.--41.2 mi^2 (106.7 km^2).

PERIOD OF RECORD.--October 1950 to current year.

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

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

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

AVERAGE DISCHARGE.--27 years, 52.1 ft^3/s (1.475 m^3/s), 37,750 acre-ft (46.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,200 ft^3/s (997 m^3/s) Dec. 6, 1966, gage height, 15.27 ft (4.654 m), from rating curve extended above 7,600 ft^3/s (215 m^3/s) on basis of slope-area measurements at gage heights 12.40 ft (3.780 m) and 15.27 ft (4.654 m); no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 278 ft^3/s (7.87 m^3/s) Jan. 2, gage height, 3.01 ft (0.917 m), no peak above base of 2,500 ft^3/s (71 m^3/s); no flow for long periods.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0								
2				44								
3				55								
4				11								
5				7.7								
6				11								
7				16								
8				12								
9				7.3								
10				5.1								
11				3.2								
12				1.9								
13				.95								
14				.65								
15				.49								
16				.37								
17				.27								
18				.44								
19				.61								
20				.39								
21				.35								
22				.21								
23				.15								
24				.06								
25				.02								
26				0								
27				0								
28				0								
29				0	---							
30				0	---							
31		---		0	---		---		---			---
TOTAL	0	0	0	179.16	0	0	0	0	0	0	0	0
MEAN	0	0	0	5.78	0	0	0	0	0	0	0	0
MAX	0	0	0	55	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	355	0	0	0	0	0	0	0	0

CAL YR 1976 TOTAL 322.26 MEAN .88 MAX 111 MIN 0 AC-FT 639
WTR YR 1977 TOTAL 179.16 MEAN .49 MAX 55 MIN 0 AC-FT 355

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, on right bank at downstream side of bridge, 0.4 mi (0.6 km) upstream from Post Creek, and 2.6 mi (4.2 km) southeast of town of Big Sur.

DRAINAGE AREA.--46.5 mi^2 (120.4 km^2).

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m), from topographic map. Prior to Oct. 1, 1951, nonrecording gage at site 0.9 mi (1.4 km) downstream at different datum.

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

AVERAGE DISCHARGE.--27 years, 89.7 ft^3/s (2.540 m^3/s), 64,990 acre-ft/yr (80.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,680 ft^3/s (161 m^3/s) Apr. 2, 1958, gage height, 11.56 ft (3.523 m); minimum daily, 2.6 ft^3/s (0.074 m^3/s) Aug. 23, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 415 ft^3/s (11.8 m^3/s) Jan. 2, gage height, 4.78 ft (1.457 m), no peak above base of 700 ft^3/s (20 m^3/s); minimum daily, 2.6 ft^3/s (0.074 m^3/s) Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	7.9	8.6	24	11	11	13	11	6.6	5.1	4.0	4.2
2	11	7.9	8.6	70	11	11	13	8.7	6.4	5.2	3.8	4.3
3	9.2	7.9	8.6	117	11	11	12	7.9	6.3	5.2	3.8	4.4
4	8.9	8.1	8.6	41	11	11	12	7.6	6.5	5.5	4.1	5.1
5	8.8	8.8	8.8	31	11	11	11	7.9	6.4	5.3	4.1	5.3
6	8.6	8.2	8.9	27	11	11	10	8.2	6.5	5.2	4.8	5.3
7	8.5	8.2	8.9	24	11	11	9.5	8.3	6.4	5.0	5.1	5.3
8	8.6	8.0	8.9	21	12	10	9.2	8.9	6.3	4.9	5.0	5.4
9	8.2	7.9	9.1	20	11	11	9.4	10	6.9	4.9	5.0	5.4
10	7.7	7.9	9.3	19	11	11	9.2	9.7	7.5	4.9	5.1	5.6
11	7.6	11	9.5	18	10	11	8.9	9.6	7.6	5.1	5.4	5.7
12	7.7	12	9.6	17	10	11	8.9	10	7.4	5.2	5.4	6.0
13	7.6	9.8	9.6	17	9.8	12	8.8	9.8	7.1	5.4	4.5	6.5
14	7.5	14	9.6	16	9.6	12	8.6	9.0	7.0	5.4	3.4	6.5
15	7.3	13	9.6	15	9.4	22	8.6	8.7	6.8	5.2	3.3	6.5
16	7.3	10	11	15	9.3	79	8.6	8.6	6.6	4.9	2.7	6.5
17	6.9	9.9	11	14	9.3	36	8.4	8.7	6.4	4.6	2.9	6.6
18	6.9	9.6	11	14	9.3	26	8.2	8.9	6.1	4.5	3.0	6.7
19	7.1	9.2	11	13	9.3	21	8.3	8.9	6.0	4.5	3.1	14
20	6.9	8.9	11	13	9.8	18	8.3	9.1	6.3	4.6	3.2	11
21	6.9	9.2	11	13	17	17	8.4	8.6	6.0	4.7	3.1	7.1
22	6.9	9.3	12	13	18	16	8.4	8.3	5.5	4.6	3.0	6.3
23	7.2	9.3	12	13	15	15	8.1	8.7	5.1	4.6	2.6	6.0
24	7.4	9.3	12	13	14	16	8.1	8.9	4.9	4.8	2.9	5.7
25	7.4	9.0	12	12	13	16	8.2	8.8	4.8	4.8	3.3	6.2
26	7.1	8.8	12	12	12	15	8.2	8.6	4.6	4.9	3.4	8.2
27	7.2	8.7	12	12	11	14	8.2	8.8	4.9	5.1	3.5	7.4
28	7.2	8.6	12	12	11	13	7.7	8.4	5.5	4.5	3.4	7.0
29	7.5	8.9	13	12	---	13	7.9	7.6	5.5	4.8	3.4	6.8
30	7.6	8.8	45	12	---	14	7.5	6.7	5.1	5.0	3.6	6.5
31	7.7	---	79	11	---	14	---	6.8	---	4.7	3.8	---
TOTAL	241.9	278.1	423.2	681	317.8	520	274.6	269.7	185.0	153.1	117.7	193.5
MEAN	7.80	9.27	13.7	22.0	11.4	16.8	9.15	8.70	6.17	4.94	3.80	6.45
MAX	11	14	79	117	18	79	13	11	7.6	5.5	5.4	14
MIN	6.9	7.9	8.6	11	9.3	10	7.5	6.7	4.6	4.5	2.6	4.2
AC-FT	480	552	839	1350	630	1030	545	535	367	304	233	384

CAL YR 1976 TOTAL 5241.4 MEAN 14.3 MAX 100 MIN 5.1 AC-FT 10400
WTR YR 1977 TOTAL 3655.6 MEAN 10.0 MAX 117 MIN 2.6 AC-FT 7250

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 21.0°C Aug. 9-11, 1971, July 8, 9, 1976; minimum recorded, 5.0°C on several days in 1967, 1974-77.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 20.0°C Aug. 29, 30; minimum recorded, 5.0°C on several days during December and January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 10...	1445	5.0	330	7.9	18.0	10.3	150	14	48

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 10...	8.2	12	14	.4	1.6	170	0	140	24

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 10...	6.6	.5	.4	185	.25	2.50	.02	40	10

11150500 SALINAS RIVER NEAR BRADLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950, 1958, 1962-66, 1972-75, 1977.
CHEMICAL ANALYSES: Water years 1958, 1962-66, 1972-75, 1977.
SEDIMENT RECORD: Water year 1950.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
SEP 01...	1105	554	420	8.1	20.0	8.0	180	41	43	18	19

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
SEP 01...	18	.6	3.2	170	0	140	72	17	.3	18	276

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)
SEP 01...	.38	413	.32	.01	.33	.01	.50	.51	.22	.19	.58

DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)
SEP 01...	1	1	60	<10	<10	0	1	30	9	0	<50

DATE	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)
SEP 01...	<49	1	5	<10	<6	4	1	10	<100	<98

DATE	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP 01...	2	<10	.8	.0	10	0	10	10	7.6

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, on right bank 1.3 mi (2.1 km) downstream from Bitterwater Creek, 5 mi (8 km) northeast of King City, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--233 mi^2 (603 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 431.64 ft (131.564 m) above mean sea level. Prior to Apr. 24, 1967, at site 500 ft (152 m) upstream at datum 5.00 ft (1.524 m) higher.

REMARKS.--Records fair. No regulation; small diversions above station.

AVERAGE DISCHARGE.--19 years, 11.2 ft^3/s (0.317 m^3/s), 8,110 acre-ft/yr (10.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft^3/s (306 m^3/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, 925 ft^3/s (26.2 m^3/s) Oct. 1 (1115 hrs), gage height, 7.40 ft (2.256 m), no other peak above base of 250 ft^3/s (7.1 m^3/s); minimum daily, 0.01 ft^3/s (<.001 m^3/s) Aug. 24-29, Sept. 5-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	369	2.1	1.8	8.9	1.5	1.2	.69	.66	1.7	.17	.86	.03
2	128	2.1	1.8	5.6	1.4	1.4	.75	.44	2.0	.15	.75	.04
3	21	2.1	1.8	61	1.4	1.5	.71	.29	2.1	.24	.85	.04
4	12	2.1	1.9	15	1.4	1.3	.50	.25	2.2	.38	.68	.02
5	10	2.4	1.9	8.7	1.5	1.1	.59	.17	2.1	.51	.52	.01
6	7.3	2.4	1.9	6.4	1.7	1.1	.65	.15	2.1	.70	.51	.01
7	6.0	2.2	1.9	5.2	1.6	1.1	.51	.12	1.8	.89	.46	.01
8	4.3	2.2	2.0	4.2	1.7	1.1	.53	.53	1.6	1.0	.33	.01
9	3.9	2.3	2.1	3.5	1.7	.94	.60	.64	1.6	.95	.25	.01
10	4.0	2.3	2.1	2.7	1.7	.88	.70	.48	1.4	1.1	.20	.02
11	4.1	3.4	2.2	2.0	1.6	.80	.72	.13	1.6	1.2	.20	.02
12	3.4	8.1	2.2	1.6	1.5	.83	.99	.11	1.5	1.4	.14	.03
13	2.6	3.4	2.1	1.3	1.6	1.0	1.1	.07	1.2	1.6	.08	.03
14	2.8	3.5	1.9	1.4	1.6	.82	.88	.07	.95	1.6	.05	.03
15	2.7	3.1	2.0	1.3	1.7	.82	.83	.08	.82	1.6	.04	.03
16	2.7	2.2	1.9	1.2	1.5	6.4	.72	.06	.65	1.5	.05	.04
17	2.6	1.8	1.9	1.2	1.5	10	.67	.05	.49	1.4	.08	.05
18	2.6	1.7	2.1	.96	1.3	3.5	.74	.04	.46	1.5	.07	.07
19	2.6	1.6	2.1	.97	1.1	1.7	.79	.05	.37	1.6	.04	.09
20	2.5	1.4	1.9	.90	1.2	1.2	.67	.05	.34	1.6	.03	.10
21	2.5	1.3	1.5	.89	1.4	1.0	.73	.05	.26	1.6	.04	.07
22	2.5	1.4	1.3	.98	1.3	.90	.77	.07	.22	1.6	.03	.06
23	2.4	1.4	1.2	.90	1.4	.91	.76	.09	.19	1.8	.02	.06
24	2.4	1.6	1.2	.99	1.2	1.1	.86	.11	.16	1.8	.01	.07
25	2.4	1.6	1.1	.98	1.2	1.2	.93	.13	.13	1.6	.01	.06
26	2.3	1.7	1.1	.99	1.2	.91	.83	.20	.14	1.4	.01	.08
27	2.3	1.7	1.0	1.1	1.3	.64	.84	.39	.14	1.3	.01	.09
28	2.3	1.7	.90	1.1	1.1	.62	.93	.53	.14	1.3	.01	.08
29	2.2	1.7	.88	1.2	---	.65	.85	.69	.15	1.3	.01	.08
30	2.2	1.8	2.9	1.3	---	.72	.75	.99	.14	1.2	.02	.09
31	2.2	---	11	1.4	---	.90	---	1.5	---	1.2	.03	---
TOTAL	619.8	68.3	63.58	145.86	40.3	48.24	22.59	9.19	28.65	37.19	6.39	1.43
MEAN	20.0	2.28	2.05	4.71	1.44	1.56	.75	.30	.96	1.20	.21	.048
MAX	369	8.1	11	61	1.7	10	1.1	1.5	2.2	1.8	.86	.10
MIN	2.2	1.3	.88	.89	1.1	.62	.50	.04	.13	.15	.01	.01
AC-FT	1230	135	126	289	80	96	45	18	57	74	13	2.8

CAL YR 1976 TOTAL 1626.01 MEAN 4.44 MAX 369 MIN .11 AC-FT 3230
WTR YR 1977 TOTAL 1091.52 MEAN 2.99 MAX 369 MIN .01 AC-FT 2170

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 11...	1245	.22	6000	8.1	25.0	15.3	1500	1100	170

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 11...	250	870	56	9.9	11	400	0	330	2100

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 11...	580	.5	8.0	4190	5.70	2.49	.04	3700	30

11151700 SALINAS RIVER AT SOLEDAD, CA

LOCATION.--Lat 36°24'40", long 121°19'06", on boundary between San Vicente and Los Coches Grants, Monterey County, near right bank on upstream end of pier on U.S. Highway 101, 0.9 mi (1.4 km) south of Soledad, and 1 mi (2 km) upstream from Arroyo Seco.

DRAINAGE AREA.--3,563 mi^2 (9,228 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 170 ft (52 m), from topographic map.

REMARKS.--Records fair including those for period of no gage-height record Oct. 1-13. Flow partly regulated by Santa Margarita Lake (station 11144500), Nacimiento Reservoir (station 11149300), and San Antonio Reservoir (station 11150100). Several small diversions above station.

AVERAGE DISCHARGE (unadjusted).--9 years, 449 ft^3/s (12.72 m^3/s), 325,300 acre-ft/yr (401 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 106,000 ft^3/s (3,000 m^3/s) Feb. 25, 1969, gage height, 23.31 ft (7.105 m); maximum gage height, 23.39 ft (7.129 m) Jan. 26, 1969; no flow Mar. 9-16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge not determined, occurred Oct. 1, gage height, unknown; no flow Mar. 9-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	83	83	87	13	.90	78	117	157	108	125	210
2	130	81	69	92	12	.78	82	113	153	110	123	183
3	70	86	80	106	11	.66	90	111	156	112	129	197
4	65	83	78	131	11	.43	90	123	132	126	155	196
5	76	81	76	117	10	.33	83	123	116	136	163	206
6	82	78	75	119	9.9	1.7	96	122	113	135	173	213
7	78	76	72	112	10	1.6	92	122	115	121	188	201
8	94	92	66	98	11	.21	95	132	108	112	202	186
9	160	102	63	86	9.8	0	100	161	111	105	207	171
10	175	107	61	79	8.9	0	103	178	117	113	207	158
11	170	106	57	74	8.1	0	109	180	122	132	206	150
12	162	111	57	70	8.4	0	111	161	127	135	206	146
13	136	112	59	67	8.4	0	108	153	130	136	215	140
14	133	109	60	70	8.5	0	105	150	130	133	220	138
15	115	106	61	72	7.2	0	75	152	129	105	235	137
16	104	100	63	69	6.2	0	76	148	124	122	236	140
17	97	98	65	67	5.4	4.2	77	152	119	118	229	143
18	96	95	65	67	4.8	26	82	153	114	118	221	156
19	92	93	66	64	4.0	28	84	138	114	118	221	166
20	91	93	68	60	3.4	46	84	131	125	112	212	173
21	89	90	67	55	2.8	64	89	127	123	104	214	176
22	90	88	66	46	2.3	76	97	126	111	100	224	178
23	90	85	66	40	2.0	81	98	132	106	95	222	149
24	93	85	66	36	1.8	85	99	128	108	99	215	146
25	96	85	69	30	1.6	87	101	114	128	123	212	162
26	94	87	72	25	1.4	89	102	104	129	129	212	202
27	92	83	75	21	1.2	87	105	98	129	119	215	215
28	93	80	74	19	1.1	93	106	95	123	130	222	227
29	90	82	73	18	---	93	107	105	113	129	224	228
30	85	84	76	17	---	89	115	144	117	127	222	234
31	82	---	84	16	---	82	---	158	---	126	217	---
TOTAL	3340	2741	2132	2030	185.2	1036.81	2839	4151	3699	3688	6272	5327
MEAN	108	91.4	68.8	65.5	6.61	33.4	94.6	134	123	119	202	178
MAX	220	112	84	131	13	93	115	180	157	136	236	234
MIN	65	76	57	16	1.1	0	75	95	106	95	123	137
AC-FT	6620	5440	4230	4030	367	2060	5630	8230	7340	7320	12440	10570

CAL YR 1976 TOTAL 38630.10 MEAN 106 MAX 257 MIN 4.4 AC-FT 76620
WTR YR 1977 TOTAL 37441.01 MEAN 103 MAX 236 MIN 0 AC-FT 74260

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	17.0	--	17.0	--	--	--	--	--	--	8.0	--	7.5	7.0	--	7.0	--	--	--
2	17.0	--	16.5	--	--	--	--	--	--	9.0	--	8.0	7.5	--	7.0	--	--	--
3	16.5	--	16.0	--	--	--	--	7.5	--	8.5	--	8.0	7.5	--	7.0	--	8.5	--
4	16.0	--	16.0	--	--	--	8.0	--	7.5	8.0	--	6.0	7.5	--	7.0	--	--	--
5	16.0	--	16.0	--	--	--	8.0	--	7.5	8.0	--	7.0	8.0	--	7.0	--	--	--
6	16.0	--	16.0	--	--	--	8.0	--	8.0	7.0	--	6.5	8.0	--	7.5	--	--	--
7	16.5	--	16.0	--	--	--	8.0	--	7.5	7.0	--	7.0	8.5	--	8.0	--	--	--
8	16.0	--	16.0	--	--	--	8.0	--	7.0	7.0	--	6.0	9.5	--	8.5	--	--	--
9	16.5	--	16.0	--	--	--	8.0	--	7.5	6.0	--	5.0	9.0	--	8.5	--	--	--
10	16.5	--	16.0	--	--	--	8.0	--	7.5	6.0	--	5.0	9.0	--	8.0	--	--	--
11	16.5	--	15.5	--	--	--	7.5	--	7.0	6.0	--	5.5	9.0	--	8.0	--	--	--
12	--	15.0	--	--	--	--	7.5	--	7.0	6.5	--	6.0	9.0	--	8.5	--	--	--
13	--	--	--	--	--	--	7.5	--	7.0	7.0	--	6.0	9.0	--	8.5	--	--	--
14	--	--	--	--	--	--	7.5	--	7.0	6.5	--	6.0	9.0	--	8.5	--	--	--
15	--	--	--	--	--	--	7.0	--	7.0	6.0	--	5.5	9.0	--	9.0	--	--	--
16	--	--	--	--	--	--	7.0	--	6.5	6.0	--	5.0	9.5	--	8.5	--	--	--
17	--	--	--	--	12.0	--	7.0	--	6.5	6.0	--	5.0	9.5	--	9.0	--	--	--
18	--	--	--	--	--	--	7.0	--	6.5	6.5	--	5.5	--	--	--	--	--	--
19	--	--	--	--	--	--	7.0	--	6.5	7.0	--	6.5	--	--	--	8.5	--	7.5
20	--	--	--	--	--	--	6.5	--	6.0	8.0	--	7.0	--	--	--	9.0	--	7.5
21	--	--	--	--	--	--	6.5	--	6.0	8.5	--	8.0	--	--	--	9.5	--	8.5
22	--	--	--	--	--	--	6.5	--	6.0	9.0	--	8.0	--	--	--	10.0	--	9.0
23	--	--	--	--	--	--	7.0	--	6.5	9.0	--	8.0	--	--	--	10.0	--	9.5
24	--	--	--	--	--	--	7.0	--	6.5	9.0	--	8.0	--	--	--	10.0	--	9.5
25	--	--	--	--	--	--	6.5	--	5.5	8.0	--	8.0	--	--	--	9.5	--	8.5
26	--	--	--	--	--	--	6.0	--	5.0	8.5	--	8.0	--	--	--	9.5	--	8.5
27	--	--	--	--	--	--	5.5	--	5.0	8.0	--	8.0	--	--	--	10.0	--	9.0
28	--	--	--	--	--	--	5.5	--	5.0	8.0	--	8.0	--	--	--	10.0	--	9.0
29	--	--	--	--	--	--	5.5	--	5.0	8.0	--	7.0	--	--	--	9.5	--	8.0
30	--	--	--	--	--	--	7.0	--	5.5	7.5	--	7.0	--	--	--	8.5	--	8.0
31	--	--	--	--	--	--	8.0	--	7.0	7.0	--	7.0	--	--	--	8.5	--	7.5
MONTH	--	--	--	--	--	--	8.0	--	5.0	9.0	--	5.0	--	--	--	--	--	--

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

11143200 CARMEL RIVER AT ROBLES DEL RIO, CA

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

DRAINAGE AREA.--193 mi^2 (500 km^2).

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

REVISED RECORDS.--WSP 1715: Drainage area.

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

REMARKS.--Records good. Flow regulated by Los Padres Reservoir 11 mi (18 km) upstream, capacity, 3,000 acre-ft (3.70 hm^3) and San Clemente Reservoir 4 mi (6 km) upstream, capacity, 1,600 acre-ft (1.97 hm^3). Diversion from San Clemente Reservoir for municipal supply amounted to 3,170 acre-ft (3.91 hm^3) for the current year.

AVERAGE DISCHARGE (unadjusted).--20 years, 71.2 ft^3/s (2.016 m^3/s), 51,580 acre-ft/yr (63.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft^3/s (201 m^3/s) Apr. 2, 1958, gage height, 10.50 ft (3.200 m); no flow at times in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a stage of 11.7 ft (3.57 m) from floodmarks, discharge, 6,930 ft^3/s (196 m^3/s) by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34 ft^3/s (0.96 m^3/s) Oct. 1, gage height, 3.89 ft (1.186 m); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0		0	0		0						
2	.02		0	3.5		0						
3	0		0	5.5		0						
4	0		0	.03		0						
5	0		0	2.9		0						
6	0		0	.33		0						
7	0		0	0		0						
8	0		0	0		0						
9	0		0	0		0						
10	0		0	0		0						
11	0		0	0		0						
12	0		0	0		0						
13	0		0	0		0						
14	0		0	0		0						
15	0		0	0		.23						
16	0		0	0		.11						
17	0		0	0		0						
18	0		0	0		0						
19	0		0	0		0						
20	0		0	0		0						
21	0		0	0		0						
22	0		0	0		0						
23	0		0	0		0						
24	0		0	0		0						
25	0		0	0		0						
26	0		0	0		0						
27	0		0	0		0						
28	0		0	0		0						
29	0		0	0	---	0						
30	0		.65	0	---	0						
31	0	---	.02	0	---	0	---		---			---
TOTAL	5.02	0	.67	12.26	0	.34	0	0	0	0	0	0
MEAN	.16	0	.022	.40	0	.011	0	0	0	0	0	0
MAX	5.0	0	.65	5.5	0	.23	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	10.0	0	1.3	24	0	.7	0	0	0	0	0	0

CAL YR 1976 TOTAL 238.93 MEAN .65 MAX 29 MIN 0 AC-FT 474
WTR YR 1977 TOTAL 18.29 MEAN .050 MAX 5.5 MIN 0 AC-FT 36

11143250 CARMEL RIVER NEAR CARMEL, CA

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

DRAINAGE AREA.--246 mi^2 (637 km^2).

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

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

REMARKS.--No flow since May 14, 1976. Fow regulated by Los Padres Reservoir, capacity, 3,000 acre-ft (3.70 hm^3) and San Clemente Reservoir, capacity, 1,600 acre-ft (1.97 hm^3). Diversion from San Clemente Reservoir for municipal supply amounted to 3,170 acre-ft (3.91 hm^3) for the current year. Figures of discharge for calendar year 1976 are as follows: Total, 53.69 ft^3/s (1.52 m^3/s); mean, 0.15 ft^3/s (0.004 m^3/s); maximum, 1.7 ft^3/s (0.048 m^3/s); minimum, zero ft^3/s (zero m^3/s); total, 106 acre-ft (131,000 m^3).

AVERAGE DISCHARGE (unadjusted).--15 years, 89.4 ft^3/s (2.532 m^3/s), 64,770 acre-ft/yr (79.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,620 ft^3/s (244 m^3/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.--No flow during year.

11143300 ARROYO DEL REY AT DEL REY OAKS, CA

LOCATION.--Lat 36°35'38", long 121°50'12", in Noche Buena Grant, Monterey County, on right bank in Del Rey Park, at Del Rey Oaks, 0.1 mi (0.2 km) downstream from State Highway 218.

DRAINAGE AREA.--13.8 mi^2 (35.7 km^2).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 40 ft (12 m), from topographic map. Prior to Dec. 23, 1974, at site 0.4 mi (0.6 km) downstream at datum 23.68 ft (7.218 m) lower.

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

AVERAGE DISCHARGE.--11 years, 0.62 ft^3/s (0.018 m^3/s), 449 acre-ft/yr (554,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64 ft^3/s (1.81 m^3/s) Jan. 3, 1974, gage height, 4.24 ft (1.292 m) site and datum then in use, from rating curve extended above 26 ft^3/s (0.736 m^3/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.9 ft^3/s (0.20 m^3/s) Dec. 30, gage height, 3.32 ft (1.012 m), from rating curve extended above 1.7 ft^3/s (0.048 m^3/s), no peak above base of 18 ft^3/s (0.5 m^3/s); minimum daily, 0.03 ft^3/s (0.001 m^3/s) for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.53	.05	.06	.20	.17	.14	.09	.10	.06	.03	.04	.03
2	.09	.05	.06	1.2	.14	.14	.08	.09	.06	.04	.05	.03
3	.06	.04	.06	1.7	.13	.14	.08	.08	.05	.03	.04	.03
4	.06	.04	.07	.41	.12	.12	.09	.09	.05	.03	.04	.03
5	.05	.04	.07	1.8	.12	.11	.07	.09	.05	.03	.04	.03
6	.05	.05	.06	.66	.12	.12	.07	.12	.05	.03	.03	.03
7	.05	.08	.06	.28	.12	.12	.08	.15	.05	.03	.04	.03
8	.07	.24	.07	.21	.13	.12	.08	.23	.06	.04	.04	.03
9	.08	.08	.08	.19	.12	.14	.08	.24	.08	.04	.04	.03
10	.08	.05	.07	.18	.12	.12	.08	.12	.07	.04	.06	.03
11	.10	.32	.07	.18	.11	.11	.08	.16	.05	.04	.04	.03
12	.18	.09	.07	.18	.11	.12	.07	.13	.05	.04	.03	.03
13	.08	.07	.07	.16	.12	.20	.07	.10	.05	.04	.03	.06
14	.05	.12	.07	.15	.12	.13	.09	.10	.04	.04	.03	.04
15	.05	.07	.08	.14	.11	.88	.09	.10	.05	.04	.03	.03
16	.05	.06	.07	.14	.11	1.1	.08	.10	.04	.04	.04	.03
17	.05	.06	.08	.14	.13	.30	.07	.10	.04	.04	.08	.03
18	.05	.06	.07	.14	.13	.23	.08	.10	.04	.05	.19	.03
19	.05	.06	.07	.13	.13	.24	.08	.10	.05	.06	.14	.08
20	.05	.06	.08	.13	.13	.23	.07	.09	.05	.05	.04	.03
21	.05	.07	.07	.12	.28	.20	.07	.07	.05	.05	.04	.03
22	.06	.06	.08	.12	.16	.15	.08	.07	.06	.05	.04	.03
23	.06	.06	.08	.12	.25	.15	.08	.07	.04	.05	.03	.03
24	.05	.06	.08	.12	.17	.15	.09	.07	.04	.03	.03	.04
25	.05	.06	.18	.12	.17	.14	.09	.07	.04	.03	.03	.04
26	.05	.06	.37	.12	.16	.11	.10	.06	.03	.03	.03	.03
27	.04	.06	.21	.12	.15	.11	.11	.06	.03	.03	.03	.03
28	.05	.06	.14	.12	.15	.10	.10	.06	.03	.03	.03	.03
29	.05	.06	.24	.12	---	.09	.10	.06	.03	.03	.03	.05
30	.05	.06	2.3	.11	---	.09	.10	.06	.04	.03	.03	.03
31	.05	---	.40	.16	---	.08	---	.06	---	.04	.03	---
TOTAL	2.39	2.30	5.54	9.67	3.98	6.18	2.50	3.10	1.43	1.18	1.42	1.03
MEAN	.077	.077	.18	.31	.14	.20	.083	.10	.048	.038	.046	.034
MAX	.53	.32	2.3	1.8	.28	1.1	.11	.24	.08	.06	.19	.08
MIN	.04	.04	.06	.11	.11	.08	.07	.06	.03	.03	.03	.03
AC-FT	4.7	4.6	11	19	7.9	12	5.0	6.1	2.8	2.3	2.8	2.0

CAL YR 1976 TOTAL 42.47 MEAN .12 MAX 2.3 MIN .02 AC-FT 84
WTR YR 1977 TOTAL 40.72 MEAN .11 MAX 2.3 MIN .03 AC-FT 81

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, on right bank at downstream side of county road bridge, 1.0 mi (1.6 km) downstream from Pozo Creek, 1.6 mi (2.6 km) west of Pozo, and 7.4 mi (11.9 km) upstream from Salinas Dam.

DRAINAGE AREA.--70.3 mi^2 (182.1 km^2).

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) above mean sea level. Prior to May 13, 1969, water-stage recorder at site 0.4 mi (0.6 km) downstream at same datum.

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

AVERAGE DISCHARGE.--35 years, 16.1 ft^3/s (0.456 m^3/s), 11,660 acre-ft/yr (14.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft^3/s (527 m^3/s) Jan. 25, 1969, gage height, 13.90 ft (4.237 m) in gage well, 15.5 ft (4.72 m) site then in use, from floodmarks, from rating curve extended above 7,100 ft^3/s (201 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10 ft^3/s (0.28 m^3/s) Mar. 16, gage height, 10.75 ft (3.277 m), no peak above base of 300 ft^3/s (8.5 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.72	.77	1.5	.84	.94	.90	.75	.29			
2	1.1	.71	.72	1.9	.88	.94	.95	1.2	.27			
3	.94	.72	.76	1.7	.75	.92	.88	.72	.25			
4	.82	.65	.82	1.2	.89	.90	.99	.58	.23			
5	.76	.59	.72	1.2	.88	.92	.91	.82	.22			
6	.76	.62	.74	1.2	.76	.88	.80	.86	.24			
7	.77	.60	.72	1.2	.81	.98	.80	1.1	.27			
8	.78	.50	.69	1.2	.81	1.1	.82	2.2	.34			
9	.81	.45	.81	1.1	.76	1.2	.89	3.4	.34			
10	.86	.48	1.2	1.1	.97	1.2	.87	1.7	.79			
11	.95	.52	1.2	1.1	1.2	1.2	.81	1.2	.65			
12	.97	.59	1.3	1.1	1.2	1.2	.84	1.3	.49			
13	.98	.53	1.3	1.1	.98	1.2	.82	1.5	.41			
14	.93	.49	1.3	1.1	.84	1.2	.78	1.2	.39			
15	.92	.52	1.2	1.1	.75	3.7	.76	1.2	.26			
16	.96	.67	1.2	1.0	1.0	5.0	.71	1.2	.21			
17	.98	.76	1.0	.94	1.1	3.4	.48	1.1	.14			
18	1.1	.72	.96	.94	1.1	3.0	.51	.99	.11			
19	1.1	.72	.94	.79	1.2	1.6	.55	.89	.08			
20	1.1	.72	.94	.81	1.2	1.5	.59	.84	.07			
21	1.1	.65	.98	.88	1.2	1.5	.63	.81	.06			
22	1.1	.66	1.1	.91	1.1	1.5	.61	.88	.05			
23	1.1	.72	1.1	.82	1.3	1.5	.64	.94	.04			
24	1.1	.69	1.1	.82	1.2	1.5	.62	.87	.01			
25	1.1	.66	1.1	.82	1.3	1.5	.63	.77	0			
26	.96	.72	1.1	.81	1.3	1.5	.66	.69	0			
27	.79	.72	1.2	.72	1.2	1.5	.68	.61	0			
28	.75	.69	1.2	.78	1.0	1.4	.68	.52	0			
29	.72	.72	1.2	.84	---	1.3	.57	.45	0			
30	.72	.78	1.5	.82	---	1.1	.55	.38	0			
31	.72	---	2.0	.82	---	1.1	---	.33	---			---
TOTAL	28.95	19.29	32.87	32.32	28.52	48.38	21.93	32.00	6.21	0	0	0
MEAN	.93	.64	1.06	1.04	1.02	1.56	.73	1.03	.21	0	0	0
MAX	1.2	.78	2.0	1.9	1.3	5.0	.99	3.4	.79	0	0	0
MIN	.72	.45	.69	.72	.75	.88	.48	.33	0	0	0	0
AC-FT	57	38	65	64	57	96	43	63	12	0	0	0

CAL YR 1976 TOTAL 371.87 MEAN 1.02 MAX 3.4 MIN 0 AC-FT 738
WTR YR 1977 TOTAL 250.47 MEAN .69 MAX 5.0 MIN 0 AC-FT 497

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, on left bank 300 ft (91 m) upstream from mouth, and 3 mi (5 km) northwest of Pozo.

DRAINAGE AREA.--9.56 mi^2 (24.76 km^2).

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) above mean sea level. Prior to Dec. 8, 1961, at site 250 ft (76 m) downstream at datum 11.83 ft (3.606 m) lower.

REMARKS.--Records poor including those for period of no gage-height record Oct. 29 to Dec. 6. Small diversions above station for irrigation and stock reservoir.

AVERAGE DISCHARGE.--14 years (water years, 1962-69, 1972-77), 0.73 ft^3/s (0.021 m^3/s), 529 acre-ft/yr (652,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft^3/s (68.0 m^3/s) Feb. 24, 1969, gage height, 8.3 ft (2.53 m) from floodmarks, from rating curve extended above 30 ft^3/s (0.850 m^3/s) on basis of slope-area measurements at gage heights 5.11 ft (1.558 m) and 7.3 ft (2.23 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10 ft^3/s (0.28 m^3/s) Mar. 16, gage height, 3.76 ft (1.146 m), no peak above base of 15 ft^3/s (0.42 m^3/s); minimum daily, 0.01 ft^3/s (<0.001 m^3/s) many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	.24	.21	.41	.28	.28	.36	.30	.06	.03	.03	.01
2	.50	.18	.21	1.1	.28	.24	.37	.26	.08	.01	.03	.01
3	.18	.12	.22	.85	.24	.24	.37	.19	.11	.01	.03	.01
4	.18	.13	.22	.44	.24	.24	.26	.10	.11	.01	.02	.01
5	.35	.14	.23	.58	.21	.33	.22	.17	.10	.01	.03	.01
6	.29	.17	.25	.75	.22	.40	.30	.03	.05	.01	.02	.01
7	.25	.18	.24	.63	.24	.40	.21	.04	.05	.01	.02	.01
8	.23	.19	.19	.45	.24	.40	.12	.43	.04	.01	.01	.02
9	.20	.19	.15	.37	.24	.40	.16	.58	.04	.01	.01	.02
10	.22	.18	.24	.37	.31	.40	.23	.31	.04	.01	.01	.02
11	.25	.18	.26	.35	.40	.40	.30	.31	.03	.01	.01	.02
12	.24	.18	.25	.40	.40	.32	.36	.37	.03	.01	.01	.01
13	.24	.18	.24	.32	.31	.40	.21	.33	.03	.01	.01	.01
14	.24	.18	.27	.31	.24	.31	.30	.18	.02	.01	.01	.01
15	.14	.19	.25	.31	.24	.40	.33	.18	.01	.01	.01	.01
16	.18	.20	.27	.31	.24	2.4	.20	.13	.01	.02	.01	.01
17	.18	.21	.40	.31	.24	.62	.21	.15	.01	.02	.01	.01
18	.18	.22	.40	.25	.24	.40	.29	.08	.01	.02	.01	.01
19	.24	.22	.39	.24	.31	.40	.26	.11	.01	.02	.01	.01
20	.24	.21	.35	.24	.40	.37	.18	.12	.02	.01	.01	.01
21	.24	.19	.38	.20	.40	.31	.17	.12	.02	.01	.01	.01
22	.31	.18	.37	.22	.40	.31	.14	.12	.02	.01	.01	.01
23	.24	.19	.37	.17	.18	.31	.10	.14	.04	.01	.01	.01
24	.24	.19	.27	.18	.14	.31	.10	.09	.04	.01	.01	.01
25	.24	.20	.22	.18	.18	.31	.19	.11	.04	.02	.01	.01
26	.18	.20	.30	.21	.31	.31	.16	.10	.03	.03	.01	.01
27	.24	.20	.30	.26	.40	.31	.18	.08	.02	.03	.01	.01
28	.24	.20	.26	.31	.40	.31	.17	.11	.03	.03	.01	.01
29	.24	.21	.31	.34	---	.31	.19	.14	.03	.03	.01	.01
30	.24	.21	.91	.27	---	.31	.22	.14	.02	.03	.01	.01
31	.24	---	1.4	.27	---	.31	---	.10	---	.02	.01	---
TOTAL	8.06	5.66	10.33	11.60	7.93	12.76	6.86	5.62	1.15	.49	.42	.34
MEAN	.26	.19	.33	.37	.28	.41	.23	.18	.038	.016	.014	.011
MAX	.88	.24	1.4	1.1	.40	2.4	.37	.58	.11	.03	.03	.02
MIN	.14	.12	.15	.17	.14	.24	.10	.03	.01	.01	.01	.01
AC-FT	16	11	20	23	16	25	14	11	2.3	1.0	.8	.7

CAL YR 1976 TOTAL 120.42 MEAN .33 MAX 5.5 MIN .01 AC-FT 239
WTR YR 1977 TOTAL 71.22 MEAN .20 MAX 2.4 MIN .01 AC-FT 141

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, on left bank 1.9 mi (3.1 km) upstream from mouth, and 4.4 mi (7.1 km) west of Pozo.

DRAINAGE AREA.--5.91 mi^2 (15.31 km^2).

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.--8 years, 1.31 ft^3/s (0.037 m^3/s), 949 acre-ft/yr (1.17 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft^3/s (28.6 m^3/s) Jan. 18, 1973, gage height, 4.58 ft (1.396 m), from rating curve extended above 67 ft^3/s (1.90 m^3/s) on basis of slope-area measurement of maximum flow; no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30 ft^3/s (0.85 m^3/s) Jan. 2, gage height, 1.42 ft (0.433 m), no peak above base of 80 ft^3/s (2.3 m^3/s); no flow for long periods.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	0	0	.06	.02	.01	.01	.03				
2	.01	0	0	7.6	.01	.01	.01	.07				
3	.01	0	0	3.9	.01	.01	0	.01				
4	.01	0	0	.44	.01	.01	0	.01				
5	.01	0	0	.24	.01	.01	0	.01				
6	.01	0	0	.37	.01	.01	0	.01				
7	.01	0	0	.31	.01	.01	.01	.01				
8	.01	0	0	.15	.01	.01	.01	.01				
9	.01	0	0	.08	.01	.01	.01	.02				
10	0	0	0	.06	.01	.01	.01	.01				
11	0	0	0	.05	.01	.01	.01	.02				
12	0	0	0	.05	.01	.01	.02	.01				
13	0	0	.01	.04	.01	.02	.03	.01				
14	0	.01	.01	.04	.01	.02	.04	.01				
15	0	.01	.01	.04	.01	.02	.06	.01				
16	0	0	.01	.04	.01	1.7	.08	.02				
17	0	0	.01	.04	.01	.04	0	.01				
18	0	0	.01	.04	.01	.03	.02	.02				
19	0	0	.01	.03	.01	.01	.04	.07				
20	0	.01	0	.03	.01	.01	.11	.11				
21	0	.01	0	.03	.01	.01	.03	.22				
22	0	.01	0	.03	.01	.01	.05	.06				
23	0	.01	0	.03	.01	.01	.02	.07				
24	0	.01	0	.03	.01	.02	.02	.17				
25	0	.01	0	.02	.01	.03	.04	.22				
26	0	.01	0	.02	.01	.04	.10	.54				
27	0	.01	0	.02	0	.05	.16	.20				
28	0	0	0	.02	.01	.01	.08	.08				
29	0	0	0	.02	---	0	0	.03				
30	0	0	.01	.02	---	0	.01	.01				
31	0	---	1.3	.02	---	0	---	0	---			---
TOTAL	.11	.10	1.38	13.87	.28	2.15	.98	2.08	0	0	0	0
MEAN	.004	.003	.045	.45	.010	.069	.033	.067	0	0	0	0
MAX	.03	.01	1.3	7.6	.02	1.7	.16	.54	0	0	0	0
MIN	0	0	0	.02	0	0	0	0	0	0	0	0
AC-FT	.2	.2	2.7	28	.6	4.3	1.9	4.1	0	0	0	0

CAL YR 1976 TOTAL 15.41 MEAN .042 MAX 6.1 MIN 0 AC-FT 31
WTR YR 1977 TOTAL 20.95 MEAN .057 MAX 7.6 MIN 0 AC-FT 42

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, at left end of dam on Salinas River, 2 mi (3 km) upstream from Pilitas Creek, and 7.5 mi (12.1 km) northwest of Pozo.

DRAINAGE AREA.--112 mi^2 (290 km^2).

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

REVISED RECORDS.--WSP 1715: Drainage area.

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

REMARKS.--Reservoir is formed by concrete-arch dam, outlet closed Dec. 6, 1941. Usable capacity, 23,000 acre-ft (28.4 hm^3) between elevations 1,220.3 ft (371.95 m), bottom of outlet pipe and 1,300.7 ft (396.45 m) spillway crest, above mean sea level. Additional storage of 400 acre-ft (493,000 m^3) is not available for release. Water diverted at dam into pipeline to small reservoir 10 mi (16 km) below, from which it is pumped to Camp San Luis Obispo and city of San Luis Obispo for water supply; water is also released down natural channel of river. Figures given herein represent usable contents.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 37,000 acre-ft (45.6 hm^3) Jan. 25, 1969, elevation, 1,313.30 ft (400.294 m); minimum, 1,730 acre-ft (2.13 hm^3) Nov. 6-10, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 12,300 acre-ft (15.2 hm^3) Oct. 1-8; maximum elevation, 1,281.73 ft (390.671 m) Oct. 1, 2; minimum contents, 7,630 acre-ft (9.41 hm^3) Sept. 30.

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 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12300	12100	11800	11600	11500	11400	11300	10600	10100	9360	8500	7870
2	12300	12100	11800	11600	11500	11400	11300	10600	10100	9340	8470	7870
3	12300	12100	11800	11700	11500	11400	11200	10600	10000	9300	8440	7860
4	12300	12100	11800	11700	11500	11400	11200	10600	10000	9270	8410	7850
5	12300	12100	11700	11700	11500	11400	11200	10600	10000	9250	8390	7850
6	12300	12100	11700	11700	11400	11400	11200	10500	9970	9230	8360	7840
7	12300	12100	11700	11700	11400	11400	11200	10500	9940	9210	8330	7830
8	12300	12100	11700	11700	11400	11400	11100	10500	9920	9180	8300	7800
9	12200	12100	11700	11700	11400	11400	11100	10500	9880	9150	8270	7790
10	12200	12100	11700	11700	11400	11400	11100	10500	9860	9120	8240	7780
11	12200	12100	11600	11700	11400	11400	11100	10500	9830	9100	8210	7770
12	12200	12100	11600	11700	11400	11400	11100	10500	9820	9080	8180	7770
13	12200	12100	11600	11700	11400	11400	11100	10500	9800	9050	8150	7760
14	12200	12100	11600	11700	11400	11400	11000	10500	9770	9020	8130	7750
15	12200	12000	11600	11600	11400	11400	11000	10500	9750	8990	8090	7740
16	12200	12000	11500	11600	11400	11400	11000	10500	9730	8960	8080	7720
17	12200	12000	11500	11600	11400	11400	11000	10400	9700	8940	8070	7720
18	12200	12000	11500	11600	11400	11400	10900	10400	9680	8910	8070	7720
19	12200	12000	11500	11600	11400	11400	10900	10400	9650	8890	8050	7710
20	12200	12000	11500	11600	11400	11400	10900	10400	9640	8860	8030	7700
21	12200	12000	11500	11600	11400	11400	10900	10400	9620	8840	8020	7700
22	12200	12000	11500	11600	11400	11400	10800	10400	9600	8810	8010	7690
23	12200	11900	11500	11600	11400	11400	10800	10300	9570	8780	8000	7680
24	12200	11900	11500	11600	11400	11400	10800	10300	9540	8750	7980	7670
25	12200	11900	11500	11600	11400	11400	10800	10300	9520	8720	7960	7670
26	12200	11900	11500	11600	11400	11400	10700	10300	9490	8690	7950	7660
27	12200	11900	11500	11600	11400	11400	10700	10300	9470	8660	7940	7660
28	12200	11900	11500	11500	11400	11400	10700	10200	9440	8620	7930	7660
29	12200	11800	11500	11500	---	11400	10700	10200	9410	8590	7920	7640
30	12200	11800	11500	11500	---	11300	10600	10200	9390	8570	7910	7630
31	12100	---	11600	11500	---	11300	---	10200	---	8540	7880	---
MAX	12300	12100	11800	11700	11500	11400	11300	10600	10100	9360	8500	7870
MIN	12100	11800	11500	11500	11400	11300	10600	10200	9390	8540	7880	7630
(†)	1281.46	1280.76	1280.22	1280.00	1279.77	1279.57	1277.87	1276.68	1274.70	1272.39	1270.54	1269.79
(‡)	-200	-300	-200	-100	-100	-100	-700	-400	-810	-850	-660	-250
(††)	.2	277	256	0	13	70	506	414	526	623	364	64

CAL YR 1976 ‡ -4700 †† 3650
WTR YR 1977 ‡ -4670 †† 3110

† 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, on left bank 900 ft (274 m) downstream from Salinas Dam, 2 mi (3 km) upstream from Pilitas Creek, and 7.5 mi (12.1 km) northwest of Pozo.

DRAINAGE AREA.--112 mi^2 (290 km^2).

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 652 ft^3/s (18.5 m^3/s) Mar. 4, 1974, gage height, 4.67 ft (1.423 m); no flow for many days in 1975-76.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17 ft^3/s (0.48 m^3/s) Jan. 19, gage height, 2.05 ft (0.625 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	0	.30	.39	11	1.3	5.8	2.3	8.1	.01	.46	.21
2	.02	0	.28	.54	5.3	1.3	6.2	1.4	4.4	.01	.49	.43
3	.01	.21	.27	.45	2.3	1.3	6.2	.36	1.2	.01	.47	.51
4	.01	.04	.27	.38	2.3	1.2	6.0	.37	1.2	.01	.47	.70
5	.01	.01	.27	4.2	2.3	1.2	4.1	.36	1.2	.01	.47	.69
6	0	.01	.29	7.9	2.3	.51	.18	.36	1.2	.01	.47	.67
7	0	0	.30	7.8	2.3	.51	.18	.36	1.3	.01	.47	.33
8	0	0	.29	7.8	2.3	.94	.17	.41	1.3	.14	.47	.36
9	0	0	.61	7.8	2.4	.64	.15	.38	.94	.39	.85	.49
10	0	0	.30	7.8	2.4	.55	.12	.33	.14	1.6	.60	.36
11	0	0	1.4	5.7	2.4	.46	.12	.33	.12	3.0	.60	.36
12	0	.01	3.4	6.4	2.4	.54	.12	.36	.11	4.1	.60	.36
13	0	0	3.8	6.4	2.4	.58	.12	.37	.10	2.8	.60	.36
14	0	0	4.0	6.4	2.4	.56	.12	.36	.10	.69	1.4	.61
15	0	0	4.0	6.4	1.2	.58	.10	.36	.09	.56	2.0	.39
16	0	0	1.9	6.4	.19	.90	.10	.36	.09	1.2	2.0	.39
17	0	0	.36	6.5	.18	.65	.11	.36	.09	2.5	2.0	.39
18	.32	0	.36	6.5	.18	.66	1.2	.36	.08	3.7	2.0	.39
19	.02	0	.36	6.6	.18	1.5	2.3	.52	.07	4.1	2.0	.39
20	0	0	.36	6.7	.18	3.2	2.3	.70	.05	5.3	2.1	.39
21	0	0	.36	6.6	.18	3.1	2.3	.72	.05	6.0	2.2	.39
22	0	0	.36	6.6	.74	3.1	2.3	.76	.04	6.2	2.2	.37
23	0	0	.36	7.6	1.2	2.8	2.2	.76	.03	6.5	2.2	.36
24	0	0	.36	8.4	1.2	2.7	2.3	.76	.04	6.0	2.2	.36
25	0	0	.36	8.4	1.2	2.7	2.2	.76	.69	5.1	2.2	.45
26	0	.22	.36	8.3	1.3	2.7	2.1	.76	.87	4.2	2.2	.98
27	0	.36	.36	10	1.3	2.7	2.2	.78	.03	3.4	2.2	5.6
28	.17	.34	.39	11	1.3	2.7	2.2	.79	.02	1.4	2.2	9.7
29	.03	.30	.39	11	---	4.1	2.2	1.4	.02	.51	2.2	9.8
30	0	.30	.46	11	---	5.5	2.2	2.3	.01	.49	2.2	9.7
31	0	---	.57	11	---	5.6	---	5.5	---	.47	1.3	---
TOTAL	.62	1.80	27.45	208.96	55.03	56.78	57.89	26.00	23.68	70.42	43.82	46.49
MEAN	.020	.060	.89	6.74	1.97	1.83	1.93	.84	.79	2.27	1.41	1.55
MAX	.32	.36	4.0	11	11	5.6	6.2	5.5	8.1	6.5	2.2	9.8
MIN	0	0	.27	.38	.18	.46	.10	.33	.01	.01	.46	.21
AC-FT	1.2	3.6	54	414	109	113	115	52	47	140	87	92

CAL YR 1976 TOTAL 375.26 MEAN 1.03 MAX 7.4 MIN 0 AC-FT 744
WTR YR 1977 TOTAL 618.94 MEAN 1.70 MAX 11 MIN 0 AC-FT 1230

11147000 JACK CREEK NEAR TEMPLETON, CA

LOCATION.--Lat 35°34'00", long 120°48'10", in Paso de Robles Grant, San Luis Obispo County, on left bank 1.4 mi (2.3 km) upstream from mouth, 1.8 mi (2.9 km) northwest of Oakdale School, and 5.6 mi (9.0 km) west of Templeton.

DRAINAGE AREA.--25.3 mi^2 (65.5 km^2).

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

REVISED RECORDS (WATER YEARS).--WSP 1395: 1950(M), 1952, 1953(M).

GAGE.--Water-stage recorder. Altitude of gage is 980 ft (299 m), from topographic map.

REMARKS.--Records good. No regulation; small diversions above station for irrigation.

AVERAGE DISCHARGE.--28 years, 13.6 ft^3/s (0.385 m^3/s), 9,850 acre-ft/yr (12.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,160 ft^3/s (231 m^3/s) Feb. 24, 1969, gage height, 11.28 ft (3.438 m), from rating curve extended above 1,200 ft^3/s (34.0 m^3/s) on basis of slope-area measurements at gage heights 6.50 ft (1.981 m) and 9.56 ft (2.914 m); no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.0 ft^3/s (0.11 m^3/s) Jan. 6, gage height, 2.15 ft (0.655 m), no peak above base of 600 ft^3/s (17 m^3/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.12	.29	.32	.26	.03			
2				.02	.12	.28	.32	.22	.03			
3				.07	.13	.29	.30	.20	.03			
4				.03	.13	.29	.29	.21	.03			
5				.07	.13	.29	.28	.21	.03			
6				.78	.14	.29	.28	.20	.03			
7				.19	.15	.29	.28	.25	.04			
8				.13	.16	.30	.28	.55	.06			
9				.10	.16	.34	.27	.42	.08			
10				.09	.17	.35	.27	.24	.08			
11				.07	.18	.37	.26	.22	.07			
12				.06	.19	.38	.26	.22	.07			
13				.06	.19	.37	.25	.20	.06			
14				.05	.20	.37	.24	.18	.06			
15				.05	.21	.37	.23	.18	.06			
16				.04	.21	1.2	.23	.18	.05			
17				.04	.22	.38	.22	.17	.05			
18				.04	.22	.36	.22	.15	.05			
19				.05	.24	.36	.21	.11	.05			
20				.05	.24	.35	.21	.10	.04			
21				.03	.34	.35	.23	.08	.03			
22				.03	.28	.35	.24	.06	.02			
23				.03	.31	.34	.24	.05	.02			
24				.06	.28	.40	.24	.05	.01			
25				.09	.29	.35	.23	.04	.01			
26				.10	.37	.33	.20	.03	.01			
27				.11	.29	.32	.22	.03	0			
28				.11	.29	.32	.23	.03	0			
29				.12	---	.32	.23	.03	0			
30				.12	---	.32	.24	.03	0			
31		---		.12	---	.31	---	.03	---			---
TOTAL	0	0	0	2.91	5.96	11.23	7.52	4.93	1.10	0	0	0
MEAN	0	0	0	.094	.21	.36	.25	.16	.037	0	0	0
MAX	0	0	0	.78	.37	1.2	.32	.55	.08	0	0	0
MIN	0	0	0	0	.12	.28	.20	.03	0	0	0	0
AC-FT	0	0	0	5.8	12	22	15	9.8	2.2	0	0	0

CAL YR 1976 TOTAL 59.71 MEAN .16 MAX 4.6 MIN 0 AC-FT 118
WTR YR 1977 TOTAL 33.65 MEAN .092 MAX 1.2 MIN 0 AC-FT 67

11147070 SANTA RITA CREEK NEAR TEMPLETON, CA

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

DRAINAGE AREA.--18.2 mi^2 (47.1 km^2).

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

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

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

AVERAGE DISCHARGE.--16 years, 13.0 ft^3/s (0.368 m^3/s), 9,420 acre-ft/yr (11.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,060 ft^3/s (172 m^3/s) Jan. 19, 1969, gage height, 11.12 ft (3.389 m) in gage well, 11.75 ft (3.581 m) from floodmarks, from rating curve extended above 1,300 ft^3/s (36.8 m^3/s) on basis of slope-area measurement of maximum flow; no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43 ft^3/s (1.22 m^3/s) Jan. 6, gage height, 3.76 ft (1.146 m), no peak above base of 600 ft^3/s (17 m^3/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.11	.11	.18	.03				
2				1.1	.12	.11	.17	.01				
3				9.0	.11	.11	.15	0				
4				.94	.11	.09	.14	0				
5				.91	.11	.08	.14	0				
6				17	.11	.08	.14	0				
7				6.6	.08	.08	.14	0				
8				2.6	.08	.09	.14	.02				
9				1.1	.08	.09	.14	.18				
10				.70	.08	.08	.13	.06				
11				.54	.08	.08	.12	.06				
12				.35	.09	.08	.12	.06				
13				.29	.09	.08	.13	.06				
14				.24	.10	.06	.14	.05				
15				.20	.10	.06	.12	.04				
16				.17	.10	1.7	.12	.04				
17				.17	.10	.64	.11	.04				
18				.13	.11	.43	.11	.03				
19				.11	.11	.32	.09	.02				
20				.11	.12	.25	.08	.02				
21				.11	.16	.22	.07	.02				
22				.12	.13	.18	.07	.02				
23				.14	.15	.19	.06	.02				
24				.11	.14	.24	.05	.01				
25				.11	.14	.26	.04	.01				
26				.11	.17	.23	.04	.01				
27				.11	.14	.21	.03	0				
28				.14	.11	.18	.02	0				
29				.13	---	.18	.02	0				
30				.09	---	.18	.02	0				
31		---		.09	---	.18	---	0	---			---
TOTAL	0	0	0	43.52	3.13	6.87	3.03	.81	0	0	0	0
MEAN	0	0	0	1.40	.11	.22	.10	.026	0	0	0	0
MAX	0	0	0	17	.17	1.7	.18	.18	0	0	0	0
MIN	0	0	0	0	.08	.06	.02	0	0	0	0	0
AC-FT	0	0	0	86	6.2	14	6.0	1.6	0	0	0	0
(†)	.42	1.00	2.74	2.96	.42	1.99	0	2.25	0	0	0	.03

CAL YR 1976 TOTAL 98.28 MEAN .27 MAX 18 MIN 0 AC-FT 195
WTR YR 1977 TOTAL 57.36 MEAN .16 MAX 17 MIN 0 AC-FT 114

† Precipitation, in inches.

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, on left bank at upstream side of 13th Street Bridge in Paso Robles, 3.5 mi (5.6 km) upstream from Huerhuero Creek.

DRAINAGE AREA.--390 mi^2 (1,010 km^2).

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) above mean sea level. Prior to June 14, 1951, nonrecording gage, and June 14, 1951, to Sept. 30, 1965, water-stage recorder at same site and datum.

REMARKS.--No flow since May 21, 1975. Flow regulated by Santa Margarita Lake (station 11144500) 32 mi (51 km) upstream beginning in 1941. Small diversions above station.

AVERAGE DISCHARGE.--34 years, 81.6 ft^3/s (2.311 m^3/s), 59,120 acre-ft/yr (72.9 hm^3/yr).

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 23.8 ft (7.25 m) from floodmarks, discharge, 28,000 ft^3/s (793 m^3/s).

EXTREMES FOR CURRENT YEAR.--No flow during year.

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, on right bank 0.2 mi (0.3 km) downstream from mouth of Ranchito Canyon, and 1.9 mi (3.1 km) northwest of Estrella.

DRAINAGE AREA.--922 mi^2 (2,388 km^2), not including Carrizo Plains.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 671.59 ft (204.701 m) above mean sea level (levels by Corps of Engineers).

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

AVERAGE DISCHARGE.--23 years, 22.1 ft^3/s (0.626 m^3/s), 16,010 acre-ft/yr (19.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,500 ft^3/s (920 m^3/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, 76 ft^3/s (2.15 m^3/s) Oct. 1, gage height, 1.96 ft (0.597 m), no peak above base of 200 ft^3/s (5.7 m^3/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10		0	.70		0		0				
2	15		0	.55		0		0				
3	3.9		0	6.4		0		0				
4	0		0	2.6		0		0				
5	0		0	1.6		0		0				
6	0		0	1.8		0		0				
7	0		0	1.8		0		0				
8	0		0	1.5		0		0				
9	0		0	1.2		0		.13				
10	0		0	.87		0		0				
11	0		0	.69		0		0				
12	0		0	.55		0		0				
13	0		0	.32		0		0				
14	0		0	.34		0		0				
15	0		0	.20		0		0				
16	0		0	.16		.74		0				
17	0		0	.06		1.2		0				
18	0		0	.06		.95		0				
19	0		0	.18		.52		0				
20	0		0	.20		.16		0				
21	0		0	.20		0		0				
22	0		0	.16		0		0				
23	0		0	.20		0		0				
24	0		0	.33		0		0				
25	0		0	.39		0		0				
26	0		0	.33		0		0				
27	0		0	.65		0		0				
28	0		0	.26		0		0				
29	0		0	0	---	0		0				
30	0		.20	0	---	0		0				
31	0	---	1.1	0	---	0	---	0	---			---
TOTAL	28.9	0	1.30	24.30	0	3.57	0	.13	0	0	0	0
MEAN	.93	0	.042	.78	0	.12	0	.004	0	0	0	0
MAX	15	0	1.1	6.4	0	1.2	0	.13	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	57	0	2.6	48	0	7.1	0	.3	0	0	0	0

CAL YR 1976 TOTAL 226.20 MEAN .62 MAX 156 MIN 0 AC-FT 449
WTR YR 1977 TOTAL 58.20 MEAN .16 MAX 15 MIN 0 AC-FT 115

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, on left bank just downstream from Sapaque Creek, 1.4 mi (2.3 km) south of Bryson.

DRAINAGE AREA.--156 mi^2 (404 km^2).

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.--6 years, 155 ft^3/s (4.390 m^3/s), 112,300 acre-ft/yr (138 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,600 ft^3/s (1,060 m^3/s) Feb. 2, 1975, gage height, 25.80 ft (7.864 m), from rating curve extended above 4,100 ft^3/s (116 m^3/s) on basis of slope-area measurement at gage height 16.84 ft (5.133 m); no flow for several months in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 820 ft^3/s (23.2 m^3/s) Jan. 3, gage height, 11.38 ft (3.469 m), no peak above base of 10,000 ft^3/s (280 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	.15	.79	45	7.8	4.1	8.9	2.2	.73			
2	8.1	.17	.80	81	7.4	4.0	8.2	2.1	.59			
3	6.3	.16	.86	306	7.3	3.7	7.7	1.8	.43			
4	4.7	.15	.86	64	7.1	3.7	7.1	1.6	.25			
5	3.1	.16	.81	40	6.9	3.7	6.8	1.6	.19			
6	1.9	.15	.79	42	6.8	3.5	6.4	1.5	.18			
7	1.3	.12	.78	41	6.7	3.4	6.0	1.4	.10			
8	1.2	.13	.73	42	6.3	3.2	5.5	3.5	.06			
9	1.0	.13	.74	35	6.3	3.0	5.2	9.3	.13			
10	.74	.11	.70	29	6.0	2.8	5.1	13	.13			
11	.52	.19	.71	26	5.9	2.8	5.1	9.7	.11			
12	.41	.26	.76	23	5.7	2.7	4.9	7.9	.09			
13	.31	.27	.80	21	5.7	2.7	4.7	6.4	.08			
14	.22	.56	.81	19	5.6	2.7	4.5	5.5	.06			
15	.18	.79	.81	17	5.5	3.4	4.2	4.9	.04			
16	.18	.83	.86	16	5.4	133	4.0	4.2	.01			
17	.17	.78	.92	14	5.1	70	3.2	3.6	0			
18	.17	.73	.92	13	4.9	41	3.1	3.2	0			
19	.18	.68	.93	13	4.7	30	2.9	3.3	0			
20	.17	.90	.94	12	4.5	25	2.7	2.9	0			
21	.18	1.5	.95	12	4.8	21	2.4	2.5	0			
22	.17	1.5	.96	11	5.0	18	2.3	2.1	0			
23	.18	1.5	1.0	10	5.3	16	2.2	2.3	0			
24	.19	1.2	1.0	10	6.6	14	2.1	2.2	0			
25	.19	1.2	1.0	9.5	5.7	14	1.9	2.1	0			
26	.18	1.2	.99	9.5	5.1	14	2.0	2.2	0			
27	.16	1.0	1.0	9.1	4.8	12	1.9	2.0	0			
28	.15	.94	1.1	8.9	4.5	11	1.7	1.7	0			
29	.15	.96	1.1	8.5	---	9.6	1.6	1.4	0			
30	.14	.92	7.9	8.1	---	9.1	1.6	1.3	0			
31	.13	---	95	7.9	---	8.9	---	1.0	---			---
TOTAL	43.67	19.34	128.32	1003.5	163.4	496.0	125.9	110.4	3.18	0	0	0
MEAN	1.41	.64	4.14	32.4	5.84	16.0	4.20	3.56	.11	0	0	0
MAX	11	1.5	95	306	7.8	133	8.9	13	.73	0	0	0
MIN	.13	.11	.70	7.9	4.5	2.7	1.6	1.0	0	0	0	0
AC-FT	87	38	255	1990	324	984	250	219	6.3	0	0	0

CAL YR 1976 TOTAL 3077.13 MEAN 8.41 MAX 312 MIN 0 AC-FT 6100
WTR YR 1977 TOTAL 2093.71 MEAN 5.74 MAX 306 MIN 0 AC-FT 4150

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.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV					
01...	1215	14.0	.20	11	.01
DEC					
09...	1250	9.0	.89	13	.03
JAN					
07...	1445	9.0	43	11	1.3
FEB					
10...	1450	13.5	5.9	6	.10
MAR					
04...	1430	12.0	4.5	2	.02
APR					
11...	1310	18.0	5.3	8	.11
MAY					
02...	1245	20.0	2.6	4	.03
JUN					
07...	1245	27.0	.14	18	.01

RESERVOIRS IN SALINAS RIVER BASIN, CA

WATER-CONTENT RECORDS

11149300 NACIMIENTO RESERVOIR.--Lat 35°45'29", long 120°53'01", in NW¼ sec.15, T.25 S., R.10 E., San Luis Obispo County, at right end of dam on Nacimiento River, 8.6 mi (13.8 km) southwest of Bradley, and 12.3 mi (19.8 km) upstream from mouth. DRAINAGE AREA, 319 mi^2 (826 km^2). PERIOD OF RECORD, February 1957 to current year. Monthend contents prior to October 1970, published in WSP 2129. GAGE, nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Monterey County Flood Control and Water Conservation District).

Reservoir is formed by earthfill dam completed in 1957. Total capacity, 350,000 acre-ft (432 hm^3); usable capacity, 340,000 acre-ft (419 hm^3) between elevations 670.0 ft (204.22 m), outlet and 800.0 ft (243.84 m), crest of spillway. Dead storage, 10,000 acre-ft (12.3 hm^3). Figures given herein represent total contents. Reservoir is used for flood control and water released down Nacimiento River for irrigation. Record of contents furnished by Monterey County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 374,500 acre-ft (462 hm^3) Apr. 7, 1958, elevation, 804.7 ft (245.27 m); minimum observed since appreciable storage was attained, 10,910 acre-ft (13.5 hm^3) Oct. 11, 1960, elevation, 670.8 ft (204.46 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 57,440 acre-ft (70.8 hm^3) Oct. 1, elevation, 717.65 ft (218.740 m); minimum observed, 22,780 acre-ft (28.1 hm^3) Sept. 30, elevation, 689.70 ft (210.221 m).

11150100 SAN ANTONIO RESERVOIR.--Lat 35°47'55", long 120°53'02", in SW¼ sec.34, T.24 S., R.10 E., Monterey County, at dam on San Antonio River, 0.7 mi (1.1 km) upstream from Sulphur Canyon, and 6.4 mi (10.3 km) southwest of Bradley. DRAINAGE AREA, 330 mi^2 (855 km^2). 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 at mean sea level (levels by Monterey County Flood Control and Water Conservation District).

Reservoir is formed by earthfill dam completed in 1965. Total capacity, 350,000 acre-ft (432 hm^3); usable capacity, 330,000 acre-ft (407 hm^3) between elevations 662.0 ft (201.78 m), minimum pool and 780.0 ft (237.74 m), crest of spillway. Dead storage, 20,000 acre-ft (24.7 hm^3). Records given herein represent total contents. Reservoir is used for flood control and water released down San Antonio River for irrigation. Record of contents furnished by Monterey County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 348,900 acre-ft (430 hm^3) May 27, 1969, elevation, 779.8 ft (237.68 m); minimum since appreciable storage was attained, 93,820 acre-ft (116 hm^3) Nov. 5-13, 1972, elevation, 714.1 ft (217.66 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 242,600 acre-ft (299 hm^3) Oct. 1, elevation, 759.35 ft (231.450 m); minimum, 51,950 acre-ft (64.1 hm^3) Sept. 30, elevation, 691.00 ft (210.617 m).

MONTHEND CONTENTS, IN ACRE-FEET, AT 2400, OCTOBER 1976 TO SEPTEMBER 1977

Date	Nacimiento Reservoir	San Antonio Reservoir
Sept. 30, 1976.	57820	242600
Oct. 31.....	51240	238500
Nov. 30.....	44580	235700
Dec. 31.....	40500	231400
Jan. 31, 1977..	44280	228400
Feb. 28.....	44350	224600
Mar. 31.....	44880	207500
Apr. 30.....	43980	184100
May 31.....	42420	161900
June 30.....	38150	139800
July 31.....	34000	109700
Aug. 31.....	30340	74260
Sept. 30.....	22780	51950

11149300 NACIMIENTO RESERVOIR NEAR BRADLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

AT WEST END (Lat 35°44'44", long 120°59'38", in NW¼ sec.22, T.25 S., R.9 E., San Luis Obispo County)

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG						
24...	1300	.5	465	8.2	24.5	6.8
24...	1301	1.0	469	8.2	24.0	6.8
24...	1302	2.0	468	8.0	23.0	5.3
24...	1303	3.0	468	7.9	23.0	4.6
24...	1304	4.0	463	8.0	23.0	5.4

AT LAS TOBLAS CREEK (Lat 35°43'23", long 120°57'25", in SW¼ sec.25, T.25 S., R.9 E., San Luis Obispo County)

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG						
24...	1350	.5	461	8.4	27.0	7.9
24...	1351	1.0	466	8.2	26.0	7.6
24...	1352	2.0	465	8.1	24.5	6.3
24...	1353	3.0	469	7.8	23.5	3.4
24...	1354	4.0	458	7.6	23.0	2.0

AT RESERVOIR CENTER (Lat 35°44'45", long 120°55'20", in NW¼ sec.20, T.25 S., R.10 E., San Luis Obispo County)

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG						
24...	1445	.5	445	8.1	25.5	7.4
24...	1446	1.0	445	8.2	25.5	7.4
24...	1447	2.0	441	8.2	25.5	7.4
24...	1448	3.0	449	8.1	24.0	6.8
24...	1449	4.0	449	8.1	24.0	6.2
24...	1450	5.0	448	8.0	23.5	4.4
24...	1451	6.0	442	7.8	23.0	3.3
24...	1452	7.0	461	7.5	20.0	1.4
24...	1453	8.0	460	7.2	18.0	1.2
24...	1454	9.0	440	7.3	15.0	1.2
24...	1455	10.0	423	7.5	13.0	1.1
24...	1456	11.0	399	7.7	12.0	1.0
24...	1457	12.0	398	7.8	11.5	1.0

1/ To convert meters to feet, multiply by 3.281.

11149300 NACIMIENTO RESERVOIR NEAR BRADLEY, CA--Continued

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

AT DAM (Lat 35°45'30", long 120°53'09", in NW¼ sec.15, T.25 S., R.10 E., San Luis Obispo County)

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG						
24...	1045	.5	439	8.6	24.5	8.2
24...	1046	1.0	439	8.5	24.5	8.2
24...	1047	2.0	444	8.5	24.0	8.1
24...	1048	3.0	439	8.4	24.0	7.9
24...	1049	4.0	439	8.3	24.0	7.8
24...	1050	5.0	439	8.1	24.0	7.4
24...	1051	6.0	438	8.0	23.5	6.9
24...	1052	7.0	437	7.9	23.0	6.2
24...	1053	8.0	461	7.1	20.0	1.7
24...	1054	9.0	411	6.7	16.0	1.8
24...	1055	10.0	394	6.5	14.0	1.8
24...	1056	11.0	386	6.6	12.0	1.7
24...	1057	12.0	374	6.5	11.5	1.7
24...	1058	13.0	404	6.7	11.0	1.7
24...	1059	14.0	375	6.8	10.5	1.7
24...	1100	15.0	375	6.9	10.5	1.7
24...	1101	16.0	381	7.0	10.0	1.7
24...	1102	17.0	372	7.0	10.0	1.7
24...	1103	18.0	372	7.1	10.0	1.7
24...	1104	19.0	372	7.2	10.0	1.7
24...	1105	20.0	367	7.2	10.0	1.7
24...	1106	21.0	367	7.2	10.0	1.7
24...	1107	22.0	372	7.2	9.5	1.7
24...	1108	23.0	372	7.3	9.5	1.7
24...	1109	24.0	372	7.3	9.5	1.7
24...	1110	25.0	372	7.3	9.5	1.7
24...	1111	26.0	372	7.3	9.5	1.7
24...	1112	27.0	372	7.3	9.5	1.7

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM
AUG												
24...	1135	.5	439	8.1	24.0	7.4	210	57	49	22	18	15
24...	1150	12.0	374	6.5	11.5	1.7	180	31	42	18	14	14

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
AUG											
24...	.5	2.0	190	0	160	70	14	.2	10	280	279
24...	.5	1.8	180	0	150	52	9.8	.2	13	236	240

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG											
24...	.38	.01	.01	.03	.70	.73	.74	.04	.03	60	30
24...	.32	.01	.00	.12	.24	.36	.37	.09	.06	50	340

1/ To convert meters to feet, multiply by 3.281.

11150100 SAN ANTONIO RESERVOIR NEAR BRADLEY CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

AT PLEYTO RECREATION AREA (Lat 35°52'03", long 120°59'41", in Pleyto Grant, Monterey County)

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG						
25...	1200	.5	446	8.8	26.0	10.2
25...	1201	1.0	446	8.4	26.0	6.0
25...	1202	2.0	454	7.8	24.0	3.0
25...	1203	3.0	449	7.6	24.0	2.9
25...	1204	4.0	439	7.6	24.0	2.2

AT HARRIS CREEK (Lat 35°48'40", long 120°55'55", in Pleyto Grant, Monterey County)

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG						
25...	1300	.5	405	8.7	25.0	8.1
25...	1301	1.0	404	--	24.5	8.2
25...	1302	2.0	408	--	24.0	8.1
25...	1303	3.0	407	--	23.5	7.3
25...	1304	4.0	407	--	23.5	7.3
25...	1305	5.0	407	--	23.5	6.4
25...	1306	6.0	411	--	23.0	4.9
25...	1307	7.0	411	--	23.0	4.8
25...	1308	8.0	411	--	23.0	3.5
25...	1309	9.0	406	--	23.0	3.4
25...	1310	10.0	410	--	22.5	3.1
25...	1311	11.0	404	--	22.5	2.2
25...	1312	12.0	404	--	22.5	1.6
25...	1313	13.0	403	--	22.0	1.1
25...	1314	14.0	407	--	21.5	1.0
25...	1315	15.0	405	--	21.0	1.0
25...	1316	16.0	411	--	20.0	.8
25...	1317	17.0	409	--	19.5	.7
25...	1318	18.0	414	--	18.0	.6
25...	1319	19.0	425	--	17.0	.4
25...	1320	20.0	434	--	15.0	.3
25...	1321	21.0	425	--	14.0	.1

1/ To convert meters to feet, multiply by 3.281.

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

AT DAM (Lat 35°47'57", long 120°53'10", in sec.34, T.24 S., R.10 E., Monterey County)

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG						
25...	1000	.5	407	8.4	23.5	7.3
25...	1001	1.0	407	8.4	23.5	7.4
25...	1002	2.0	407	8.4	23.5	7.1
25...	1003	3.0	402	8.2	23.5	6.6
25...	1004	4.0	406	8.2	23.0	6.4
25...	1005	5.0	406	8.0	23.0	5.8
25...	1006	6.0	406	8.0	23.0	5.4
25...	1007	7.0	406	8.0	23.0	5.4
25...	1008	8.0	406	8.1	23.0	5.3
25...	1009	9.0	406	8.1	23.0	5.1
25...	1010	10.0	406	8.1	23.0	5.0
25...	1011	11.0	406	8.1	23.0	4.5
25...	1012	12.0	404	8.0	22.5	3.2
25...	1013	13.0	404	7.8	22.5	2.3
25...	1014	14.0	404	7.6	22.5	1.5
25...	1015	15.0	407	7.6	21.5	1.3
25...	1016	16.0	405	7.5	21.0	1.2
25...	1017	17.0	405	7.5	20.0	1.0
25...	1018	18.0	407	7.6	19.0	.9
25...	1019	19.0	417	7.6	16.5	.8
25...	1020	20.0	415	7.7	15.5	.6
25...	1021	21.0	428	7.8	14.5	.5
25...	1022	22.0	419	8.0	14.0	.4
25...	1023	23.0	419	8.2	14.0	.4
25...	1024	24.0	422	8.3	13.0	.4
25...	1025	25.0	422	8.5	12.5	.1
25...	1026	26.0	422	8.7	12.5	.0
25...	1027	27.0	422	8.8	12.5	.0
25...	1028	28.0	426	9.0	12.0	.0
25...	1029	29.0	426	9.1	12.0	.0
25...	1030	30.0	426	9.1	12.0	.0
25...	1031	31.0	426	9.2	12.0	.0
25...	1032	32.0	426	9.2	12.0	.0
25...	1033	33.0	426	9.0	12.0	.0
25...	1034	34.0	426	--	12.0	.0
25...	1035	35.0	426	--	12.0	.0
25...	1036	36.0	426	--	12.0	.0

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM
AUG												
25...	1040	4.0	406	8.0	23.0	5.8	180	57	44	17	19	18
25...	1050	19.0	417	7.6	16.5	.8	180	41	46	16	17	17

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
AUG											
25...	.6	3.7	150	0	120	83	16	.4	18	278	275
25...	.6	3.4	170	0	140	71	15	.4	18	278	271

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG											
25...	.38	.01	.01	.08	.49	.57	.58	.08	.00	40	20
25...	.38	.01	.01	.68	.42	1.1	1.1	.37	.00	40	130

1/ To convert meters to feet, multiply by 3.281.

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, Camp Roberts Military Reservation, on left bank 2.2 mi (3.5 km) downstream from Nacimiento Dam, and 7.6 mi (12.2 km) southwest of Bradley.

DRAINAGE AREA.--322 mi^2 (834 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 597 ft (182 m) above mean sea level (Corps of Engineers bench mark).

REMARKS.--Records good except those for period of no gage-height record Sept. 21-30, which are fair. Flow regulated by Nacimiento Dam (station 11149300), 2.2 mi (3.5 km) upstream. No diversion above station.

AVERAGE DISCHARGE (unadjusted).--20 years, 264 ft^3/s (7.476 m^3/s), 191,300 acre-ft/yr (236 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge not determined, occurred sometime during period Sept. 21-30, gage height, unknown; no flow Feb. 1-15, Mar. 10-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	121	121	3.1	0	16	15	15	67	68	67	69
2	7.7	123	121	1.4	0	30	15	15	67	68	68	68
3	8.6	123	121	.83	0	15	15	14	68	67	68	68
4	76	123	121	.30	0	11	15	14	69	67	68	69
5	78	123	120	.23	0	1.4	15	14	69	65	68	68
6	78	123	120	.72	0	.26	15	14	69	67	68	39
7	105	123	94	.53	0	.07	15	15	69	66	68	13
8	130	123	71	.28	0	.02	14	15	69	67	68	12
9	130	123	70	.39	0	.01	14	14	68	66	68	12
10	129	123	70	.91	0	0	15	14	68	66	68	12
11	128	124	70	4.7	0	0	15	14	68	67	68	13
12	128	123	70	4.9	0	0	15	14	68	66	68	13
13	128	123	70	4.6	0	0	15	14	68	67	68	13
14	128	123	70	4.5	0	0	15	14	68	66	68	13
15	128	122	70	4.4	0	0	15	14	68	66	68	13
16	128	123	70	4.2	2.4	.08	15	14	68	67	68	13
17	127	122	70	4.2	4.3	3.8	15	14	68	66	68	13
18	125	122	70	4.1	5.4	14	15	14	68	66	68	13
19	125	122	70	3.9	15	15	15	14	68	66	68	13
20	125	122	69	3.9	15	15	15	14	68	66	68	50
21	125	122	70	4.1	15	15	15	14	68	67	68	392
22	124	122	70	4.2	15	15	15	14	68	67	68	392
23	124	121	70	4.2	16	15	15	14	67	66	68	392
24	124	121	70	4.2	16	15	15	14	68	67	68	392
25	124	121	70	4.0	16	15	15	38	67	66	68	392
26	124	121	70	.74	16	15	15	70	67	66	68	392
27	125	121	70	.14	16	15	15	70	68	67	68	392
28	124	120	70	.05	16	15	15	69	68	68	69	392
29	124	121	70	.03	---	15	15	67	67	68	69	392
30	124	121	72	.01	---	15	15	67	68	68	69	392
31	124	---	40	.01	---	15	---	67	---	68	69	---
TOTAL	3590.3	3665	2470	73.77	168.1	286.64	448	788	2039	2068	2111	4517
MEAN	116	122	79.7	2.38	6.00	9.25	14.9	25.4	68.0	66.7	68.1	151
MAX	212	124	121	4.9	16	30	15	70	69	68	69	392
MIN	7.7	120	40	.01	0	0	14	14	67	65	67	12
AC-FT	7120	7270	4900	146	333	569	889	1560	4040	4100	4190	8960

CAL YR 1976 TOTAL 87881.30 MEAN 240 MAX 582 MIN 7.7 AC-FT 174300
WTR YR 1977 TOTAL 22224.81 MEAN 60.9 MAX 392 MIN 0 AC-FT 44080

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA

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

DRAINAGE AREA.--223 mi^2 (578 km^2).

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) above mean sea level.

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

AVERAGE DISCHARGE.--12 years, 87.3 ft^3/s (2.472 m^3/s), 63,250 acre-ft/yr (78.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft^3/s (396 m^3/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.--Maximum discharge, 1.2 ft^3/s (0.034 m^3/s) Mar. 16, gage height, 4.84 ft (1.475 m), no peak above base of 1,500 ft^3/s (42 m^3/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0	.07					
2						0	.06					
3						0	.02					
4						0	.01					
5						0	0					
6						0	0					
7						0	0					
8						0	0					
9						0	0					
10						0	0					
11						0	0					
12						0	0					
13						0	0					
14						0	0					
15						.01	0					
16						.43	0					
17						.15	0					
18						.10	0					
19						.06	0					
20						.06	0					
21						.12	0					
22						.18	0					
23						.20	0					
24						.15	0					
25						.07	0					
26						.04	0					
27						.03	0					
28						.01	0					
29					---	.08	0					
30					---	.08	0					
31		---			---	.03	---		---			---
TOTAL	0	0	0	0	0	1.80	.16	0	0	0	0	0
MEAN	0	0	0	0	0	.058	.005	0	0	0	0	0
MAX	0	0	0	0	0	.43	.07	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	3.6	.3	0	0	0	0	0

CAL YR 1976	TOTAL	1436.20	MEAN 3.92	MAX	54	MIN 0	AC-FT	2850
WTR YR 1977	TOTAL	1.96	MEAN .005	MAX	.43	MIN 0	AC-FT	3.9

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 SURFACE BED MATERIAL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JAN							
07...	1100	1	.00	--	--	1	20
07...	1105	1	.00	--	--	1	11
07...	1110	1	.00	--	1	3	19
07...	1115	1	.00	--	1	2	10
07...	1120	1	.00	--	1	5	20
07...	1125	1	.00	1	2	8	26
07...	1130	1	.00	--	1	6	12
07...	1135	1	.00	21	54	86	92

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
JAN							
07...	67	96	100	--	--	--	--
07...	38	78	96	99	100	--	--
07...	39	54	66	75	85	93	100
07...	27	48	63	73	81	84	100
07...	37	55	69	80	89	100	--
07...	49	69	81	88	94	100	--
07...	25	46	63	75	84	100	--
07...	96	98	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, on left bank 6 mi (10 km) northwest of Bradley, and 7 mi (11 km) downstream from San Antonio River.

DRAINAGE AREA.--2,535 mi^2 (6,566 km^2).

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) above mean sea level (levels by Corps of Engineers).

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

AVERAGE DISCHARGE (unadjusted).--29 years, 430 ft^3/s (12.18 m^3/s), 311,500 acre-ft/yr (384 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117,000 ft^3/s (3,310 m^3/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, 697 ft^3/s (19.7 m^3/s), Aug. 5, gage height, 7.09 ft (2.161 m); minimum daily, 24 ft^3/s (0.68 m^3/s) Jan. 31, Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	145	163	175	24	164	350	404	387	482	530	554
2	234	143	163	137	51	162	365	388	403	482	646	561
3	124	140	167	131	68	143	363	382	385	511	660	560
4	106	139	168	186	75	190	363	397	384	518	667	539
5	134	138	151	137	76	196	358	407	381	514	677	237
6	137	175	130	83	75	199	388	429	382	496	681	539
7	131	196	140	56	74	177	398	454	385	484	681	539
8	160	198	139	49	74	200	393	499	388	476	657	539
9	283	183	132	43	76	234	390	473	417	519	634	539
10	297	180	132	39	77	239	398	363	433	530	627	539
11	290	167	132	37	77	246	391	346	436	530	626	539
12	286	161	134	96	74	248	382	363	434	511	625	539
13	242	146	136	74	46	249	304	343	422	410	627	539
14	195	148	147	64	30	255	306	340	422	572	643	539
15	186	155	149	57	26	257	367	315	423	553	653	539
16	193	155	155	54	56	359	376	336	416	533	646	539
17	198	149	162	52	87	291	370	311	407	507	641	539
18	203	150	164	41	94	326	379	299	401	502	642	520
19	185	150	166	33	114	355	433	302	416	506	630	470
20	173	150	165	31	124	351	438	309	421	510	607	433
21	170	148	162	31	124	358	433	313	422	516	607	433
22	173	149	165	30	126	367	422	317	448	522	604	433
23	174	146	165	30	114	368	432	319	440	581	584	433
24	172	142	169	30	102	364	431	314	421	584	591	433
25	169	147	165	29	113	358	424	311	408	574	599	433
26	165	151	162	28	129	350	419	310	412	562	627	433
27	163	147	162	27	132	342	429	343	418	551	626	433
28	156	143	165	26	137	327	443	446	429	557	649	433
29	147	149	169	26	---	309	438	469	430	558	655	433
30	143	160	179	26	---	318	395	458	475	529	641	433
31	146	---	186	24	---	337	---	427	---	529	588	---
TOTAL	5915	4650	4844	1882	2375	8639	11778	11487	12446	16209	19571	14672
MEAN	191	155	156	60.7	84.8	279	393	371	415	523	631	489
MAX	380	198	186	186	137	368	443	499	475	584	681	561
MIN	106	138	130	24	24	143	304	299	381	410	530	237
AC-FT	11730	9220	9610	3730	4710	17140	23360	22780	24690	32150	38820	29100

CAL YR 1976 TOTAL 112917 MEAN 309 MAX 645 MIN 26 AC-FT 224000
WTR YR 1977 TOTAL 114468 MEAN 314 MAX 681 MIN 24 AC-FT 227000

11151700 SALINAS RIVER AT SOLEDAD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1972-75, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
SEP												
01...	1345	208	434	8.5	23.5	9.2	180	0	150	.24	.00	.24

DATE	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO, PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)
SEP												
01...	.00	.21	.21	.22	.17	.52	2	1	<10	<10	0	<1

DATE	TOTAL CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)
SEP											
01...	10	20	0	<50	<49	1	5	<10	<9	1	1

DATE	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP											
01...	<100	<98	2	<10	.5	.0	20	0	30	6	3.9

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, on right bank 0.6 mi (1.0 km) downstream from Rocky Creek, and 14.5 mi (23.3 km) southwest of Greenfield.

DRAINAGE AREA.--113 mi^2 (293 km^2).

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. No regulation; small diversion for fishponds above station by pumping.

AVERAGE DISCHARGE.--16 years, 129 ft^3/s (3.653 m^3/s), 93,460 acre-ft/yr (115 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,800 ft^3/s (617 m^3/s) Dec. 6, 1966, gage height, 14.50 ft (4.420 m), present datum, from rating curve extended above 5,700 ft^3/s (161 m^3/s) on basis of slope-area measurement at gage-height 12.65 ft (3.856 m), present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 654 ft^3/s (18.5 m^3/s) Jan. 2, gage height, 6.05 ft (1.844 m), no peak above base of 1,500 ft^3/s (42 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	3.7	5.9	5.5	11	10	13	7.3	3.8	.35	0	1.0
2	1.5	3.5	5.7	54	10	9.9	12	7.7	3.5	.33	0	1.1
3	1.2	3.8	5.6	202	10	9.2	12	7.0	3.2	.22	0	1.2
4	.89	3.8	5.5	58	10	9.2	11	6.5	3.0	.15	0	1.1
5	.75	4.5	5.7	38	9.9	8.9	10	6.1	2.8	.12	0	.97
6	.73	4.6	6.1	36	9.7	8.9	9.3	6.2	2.7	.11	0	1.0
7	.75	4.6	5.9	33	9.6	8.7	9.1	6.5	2.4	.10	0	1.2
8	.89	4.6	6.1	29	9.4	8.7	8.7	8.6	2.2	.09	0	1.6
9	1.0	4.7	6.2	25	9.2	8.7	8.2	14	2.2	.07	0	1.8
10	1.3	5.0	6.3	23	9.2	8.7	7.6	13	2.6	.05	0	2.0
11	1.4	6.4	6.5	21	9.2	8.4	7.3	10	3.0	.04	0	2.1
12	1.8	7.5	6.9	20	9.2	8.4	7.0	9.5	3.2	.02	0	2.3
13	2.2	7.8	7.1	18	9.0	8.4	6.8	9.3	3.1	.01	0	2.7
14	2.5	7.4	7.1	17	8.9	8.4	6.7	8.4	3.1	.01	0	2.8
15	3.0	7.9	7.4	16	8.9	10	6.4	7.7	3.2	0	0	2.8
16	3.6	6.3	7.5	16	8.7	103	6.2	7.0	2.8	0	0	3.3
17	4.6	5.4	7.7	15	8.7	47	6.1	6.8	2.2	0	0	3.6
18	5.5	5.0	7.7	14	8.4	29	6.0	6.9	2.0	0	.21	3.7
19	6.5	5.5	7.9	13	8.4	23	5.7	6.6	1.9	0	.27	4.3
20	7.2	6.1	8.0	13	8.5	20	5.6	6.4	1.8	0	.23	5.6
21	6.9	7.1	8.1	13	9.9	18	5.4	5.9	1.8	0	.28	4.5
22	7.3	7.2	8.2	12	16	16	5.0	5.7	1.5	0	.28	3.9
23	7.1	7.0	8.3	12	13	15	4.4	5.7	1.2	0	.25	3.9
24	6.8	6.7	8.5	12	12	15	4.8	5.9	1.0	0	.24	4.2
25	6.7	6.7	8.7	12	11	16	5.1	6.2	.88	0	.21	4.3
26	6.3	6.5	8.7	11	11	15	5.2	6.3	.75	0	.25	4.7
27	5.9	6.2	8.7	11	10	14	5.3	6.3	.64	0	.28	4.5
28	5.6	6.0	8.7	11	10	13	5.3	5.7	.57	0	.38	3.6
29	4.6	6.0	10	11	---	13	5.5	5.4	.51	0	.55	2.7
30	4.0	6.0	22	11	---	13	5.6	4.8	.42	0	.71	2.4
31	3.8	---	61	11	---	13	---	4.1	---	0	.96	---
TOTAL	113.41	173.5	293.7	793.5	278.8	517.5	216.3	223.5	63.97	1.67	5.10	84.87
MEAN	3.66	5.78	9.47	25.6	9.96	16.7	7.21	7.21	2.13	.054	.16	2.83
MAX	7.3	7.9	61	202	16	103	13	14	3.8	.35	.96	5.6
MIN	.73	3.5	5.5	5.5	8.4	8.4	4.4	4.1	.42	0	0	.97
AC-FT	225	344	583	1570	553	1030	429	443	127	3.3	10	168

CAL YR 1976 TOTAL 4579.56 MEAN 12.5 MAX 182 MIN .42 AC-FT 9080
WTR YR 1977 TOTAL 2765.82 MEAN 7.58 MAX 202 MIN 0 AC-FT 5490

11151870 ARROYO SECO NEAR GREENFIELD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to current year.
WATER TEMPERATURES: Water years 1963-75.
SEDIMENT RECORDS: Water years 1962 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1962 to September 1975.
SEDIMENT RECORDS: October 1962 to September 1975.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV					
02...	1510	11.0	3.6	1	.01
DEC					
07...	1330	4.5	5.9	1	.02
JAN					
06...	1400	6.5	37	4	.40
FEB					
08...	1145	8.5	9.6	2	.05
MAR					
02...	1430	9.0	10	1	.03
APR					
05...	1245	14.5	11	10	.30
MAY					
02...	1720	17.0	7.8	8	.17
JUN					
28...	1315	28.0	.57	12	.02

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, on right bank just downstream from bridge, 1.5 mi (2.4 km) downstream from Vaquero Creek, and 10 mi (16 km) south of Soledad.

DRAINAGE AREA.--244 mi^2 (632 km^2).

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

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

GAGE.--Water-stage recorder. Datum of gage is 342.20 ft (104.303 m) above mean sea level (Corps of Engineers bench mark). 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 good. No regulation or large diversion above station.

AVERAGE DISCHARGE.--76 years, 159 ft^3/s (4.503 m^3/s), 115,200 acre-ft/yr (142 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft^3/s (801 m^3/s) Apr. 3, 1958, gage height, 16.40 ft (4.999 m), present datum, from rating curve extended above 12,000 ft^3/s (340 m^3/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, 562 ft^3/s (15.9 m^3/s) Jan. 3, gage height, 4.20 ft (1.280 m), no peak above base of 2,500 ft^3/s (71 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	1.9	4.3	41	11	11	16	3.5	2.3	.57		0
2	.24	2.0	4.5	25	11	12	15	4.0	2.8	.31		0
3	.24	1.9	4.8	181	12	12	14	5.0	2.8	.19		0
4	.26	1.8	4.9	58	11	12	14	5.2	4.5	.13		0
5	1.7	1.9	5.3	35	11	12	13	4.2	4.1	.11		0
6	1.6	1.5	5.3	30	11	12	12	3.8	3.9	.06		0
7	1.5	1.3	5.8	28	12	10	10	4.4	3.8	.05		0
8	1.4	1.5	6.4	26	12	10	9.7	5.9	4.0	.04		0
9	1.4	1.6	6.6	22	12	10	9.5	7.5	4.6	.04		0
10	1.1	1.6	6.9	20	12	10	9.4	8.6	4.8	.04		0
11	1.1	1.2	6.9	19	12	10	9.3	8.7	4.8	.04		0
12	.97	1.2	6.9	17	12	11	8.7	7.3	4.4	.03		0
13	.90	1.8	7.9	16	12	10	8.4	6.2	4.5	.03		0
14	.90	3.4	7.8	15	11	12	7.9	5.6	4.9	.03		0
15	.90	3.9	7.8	15	11	12	7.8	5.0	5.0	.02		0
16	.85	4.3	8.0	14	11	72	7.3	4.1	4.8	.02		0
17	.89	5.4	8.1	14	11	53	7.3	3.5	4.9	.01		0
18	.82	4.9	8.3	13	11	33	7.0	3.2	4.0	.01		0
19	.82	4.5	8.5	13	11	27	6.1	3.0	3.6	.01		0
20	.65	4.3	8.8	13	11	24	5.6	2.7	3.8	.01		0
21	.63	4.1	9.0	12	11	21	5.7	2.3	3.3	0		0
22	.63	4.1	9.0	12	12	20	4.7	2.1	2.8	0		0
23	.62	4.3	9.3	12	17	19	4.3	2.3	2.5	0		0
24	.57	3.9	9.3	12	15	18	3.8	2.4	2.2	0		0
25	.58	3.9	9.3	12	14	18	3.2	2.3	1.9	0		.04
26	1.5	3.9	9.6	12	13	18	3.1	2.3	1.7	0		0
27	2.0	3.7	9.7	12	13	18	2.7	2.5	1.5	0		0
28	2.1	3.7	9.7	12	12	17	2.3	2.8	1.2	0		0
29	2.3	3.7	9.8	12	---	16	3.3	2.8	1.1	0		0
30	2.2	4.3	13	12	---	16	3.4	2.7	.85	0		0
31	2.3	---	66	11	---	17	---	2.4	---	0		---
TOTAL	33.89	91.5	297.5	746	335	573	234.5	128.3	101.35	1.75	0	.04
MEAN	1.09	3.05	9.60	24.1	12.0	18.5	7.82	4.14	3.38	.057	0	.001
MAX	2.3	5.4	66	181	17	72	16	8.7	5.0	.57	0	.04
MIN	.22	1.2	4.3	11	11	10	2.3	2.1	.85	0	0	0
AC-FT	67	181	590	1480	664	1140	465	254	201	3.5	0	.08

CAL YR 1976 TOTAL 4352.75 MEAN 11.9 MAX 243 MIN 0 AC-FT 8630
WTR YR 1977 TOTAL 2542.83 MEAN 6.97 MAX 181 MIN 0 AC-FT 5040

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, near left bank on downstream side of bridge on Chualar-River Road, 2 mi (3 km) southwest of Chualar.

DRAINAGE AREA.--4,042 mi^2 (10,469 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to September 1977.

GAGE.--Nonrecording gage. Datum of gage is 68.00 ft (20.726 m) above mean sea level.

REMARKS.--Records poor. Daily discharge 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), Naciminento Reservoir (station 11149300), and San Antonio Reservoir (station 11150100). Large withdrawals from ground water and small surface-water diversions for municipal use and irrigation above station.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 80 ft^3/s (2.27 m^3/s) Oct. 1; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	32	33	35	2.0		0	14	32	11	13	32
2	68	31	28	37	.08		0	13	31	11	12	28
3	35	33	31	42	0		0	14	30	11	13	30
4	25	33	31	51	0		0	15	31	12	17	31
5	26	31	30	48	0		0	15	26	14	24	32
6	31	30	29	48	0		0	15	23	14	26	32
7	30	30	28	43	0		0	15	20	13	29	30
8	34	35	27	39	0		0	17	19	11	31	27
9	62	39	25	35	0		0	20	16	11	32	25
10	70	42	24	32	0		0	22	14	11	33	26
11	66	43	22	30	0		0	21	13	12	33	25
12	62	43	22	28	0		0	19	13	14	33	25
13	56	42	23	27	0		0	19	13	14	34	25
14	51	42	24	28	0		0	19	13	12	34	25
15	47	42	25	29	0		0	19	13	11	36	25
16	42	41	25	26	0		0	19	12	9.0	40	25
17	37	39	26	23	0		0	19	12	6.2	35	25
18	37	38	26	20	0		0	18	11	4.5	34	25
19	36	37	26	18	0		0	17	11	3.4	34	25
20	35	36	27	16	0		0	16	12	3.4	34	26
21	34	35	26	14	0		0	16	12	3.8	33	26
22	34	34	26	12	0		0	16	11	4.9	33	23
23	35	34	26	10	0		0	16	11	6.6	34	21
24	36	34	27	9.2	0		0	16	11	9.0	33	21
25	37	34	28	7.9	0		12	23	12	12	32	26
26	37	34	29	.20	0		12	21	13	13	32	30
27	36	33	30	0	0		13	19	13	12	33	32
28	36	31	29	0	0		13	19	12	13	34	32
29	36	32	29	0	---		13	20	11	13	34	32
30	34	33	31	0	---		14	24	12	13	34	33
31	32	---	33	0	---		---	28	---	13	34	---
TOTAL	1317	1073	846	708.30	2.08	0	77	564	483	321.8	943	820
MEAN	42.5	35.8	27.3	22.8	.074	0	2.57	18.2	16.1	10.4	30.4	27.3
MAX	80	43	33	51	2.0	0	14	28	32	14	40	33
MIN	25	30	22	0	0	0	0	13	11	3.4	12	21
AC-FT	2610	2130	1680	1400	4.1	0	153	1120	958	638	1870	1630

WTR YR 1977 TOTAL 7155.18 MEAN 19.6 MAX 80 MIN 0 AC-FT 14190

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January to September 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
SPECIFIC CONDUCTANCE: Water year 1977.
WATER TEMPERATURE: Water year 1977.
SEDIMENT RECORDS: Water year 1977.

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

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

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,140 micromhos Jan. 24; minimum recorded, 429 micromhos Apr. 25.
WATER TEMPERATURES: Maximum recorded, 27.5°C June 21; minimum recorded, 5.5°C Jan. 26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML)	FECAL STREP-TOCOCCI KF AGAR (COL. PER 100 ML)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
JAN												
11...	1225	30	30	1000	8.2	6.0	170	1100	--	320	120	74
MAY												
10...	1200	22	22	490	8.0	14.0	220	470	3000	200	66	51
JUN												
20...	1300	12	12	515	7.5	24.0	80	380	690	210	58	51
JUL												
19...	1315	3.4	3.4	474	7.4	25.5	15	220	8260	200	53	49
AUG												
16...	1315	40	40	515	7.7	21.0	15	130	1000	200	43	50
SEP												
13...	1215	25	25	525	7.4	20.0	7	58	600	200	57	49

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
JAN												
11...	34	79	34	1.9	3.0	250	0	200	220	57	.2	19
MAY												
10...	17	21	19	.7	2.1	160	0	130	84	15	.3	15
JUN												
20...	19	25	21	.8	2.8	180	0	150	81	17	.3	11
JUL												
19...	19	23	20	.7	3.0	180	0	150	80	21	.4	15
AUG												
16...	18	22	19	.7	3.8	190	0	160	84	12	.4	17
SEP												
13...	20	22	19	.7	3.0	180	0	150	86	20	.3	18

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)
JAN											
11...	646	609	.88	52.3	1.3	--	--	.88	2.2	.38	--
MAY											
10...	283	284	.38	16.8	.17	--	--	1.3	1.5	.10	--
JUN											
20...	310	296	.42	10.0	.01	--	--	.75	.76	.33	--
JUL											
19...	299	299	.41	2.74	.00	--	--	.44	.44	.15	--
AUG											
16...	305	301	.41	32.9	.01	--	--	.33	.34	.20	--
SEP											
13...	315	307	.43	21.3	.00	.00	.14	.14	.14	.21	.13

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

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
JAN											
11...	1225	8	2	10	9	1	30	0	<50	<50	0
MAY											
10...	1200	6	2	<10	<10	0	30	0	<50	<50	0
JUL											
19...	1315	4	3	<10	<9	1	0	0	<50	<50	0

DATE	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
JAN											
11...	20	17	3	16000	10	<100	<95	5	250	240	10
MAY											
10...	20	14	6	15000	10	<100	<97	3	290	290	0
JUL											
19...	<10	<6	4	840	20	<100	<94	6	20	20	0

DATE	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN										
11...	.0	.0	.0	2	0	2	50	40	10	7.0
MAY										
10...	.0	.0	.0	1	1	0	50	40	10	10
JUL										
19...	.0	.0	.0	--	--	0	20	20	0	3.7

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)
AUG										
16...	1315	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METH-OXY-CHLOR (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)
AUG										
16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND Material specifically analyzed for but not detected.

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	JAN 11,77		MAY 10,77		JUN 20,77		JUL 19,77		AUG 16,77		SEP 13,77	
TIME	1225		1200		1300		1315		1315		1215	
TOTAL CELLS/ML	12000		45000		22000		2800		5600		14000	
DIVERSITY: DIVISION	1.1		0.4		0.7		1.0		1.4		1.1	
.CLASS	1.1		0.4		0.7		1.0		1.4		1.1	
..ORDER	1.4		0.6		1.0		1.6		2.0		1.6	
...FAMILY	1.7		2.6		1.2		2.3		2.7		2.1	
....GENUS	1.7		2.7		1.2		2.8		3.6		2.1	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-	380	3
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	440	1	*	0	220	8	790	14	1800	12
....NEPHROCYTIUM	--	-	--	-	--	-	--	-	590	10	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-	*	0
....SELENASTRUM	--	-	--	-	--	-	--	-	170	3	--	-
....TETRAEDRON	--	-	--	-	*	0	29	1	170	3	--	-
...SCENEDESMACEAE												
....CRUCIGENIA	--	-	--	-	--	-	290	10	170	3	--	-
....SCENEDESMUS	--	-	3500	8	1500	7	1000#	36	500	9	1000	7
....TETRASTRUM	--	-	--	-	120	1	--	-	670	12	*	0
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	130	1	--	-	--	-	--	-	--	-	1700	12
...PHACOTACEAE												
....PTEROMONAS	--	-	--	-	--	-	--	-	--	-	*	0
...VOLVOCACEAE												
....PANDORINA	--	-	--	-	--	-	--	-	--	-	900	6
..ZYGNEMATALES												
...DESMIDIACEAE												
....COSMARIUM	--	-	--	-	--	-	120	4	--	-	380	3
...ZYGNEMATACEAE												
....SPIROGYRA	--	-	--	-	--	-	--	-	290	5	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	1300	3	*	0	--	-	84	1	--	-
....MELOSIRA	2700#	22	--	-	850	4	500#	18	42	1	--	-
....STEPHANODISCUS	--	-	--	-	--	-	29	1	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	5700	13	--	-	--	-	--	-	--	-
....COCCONEIS	130	1	2600	6	--	-	260	9	--	-	--	-
...CYMBELLACEAE												
....EPITHEMIA	130	1	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	130	1	2200	5	--	-	--	-	--	-	--	-
...FRAGILARIACEAE												
....FRAGILARIA	--	-	2600	6	18000#	80	--	-	210	4	--	-
....SYNEDRA	130	1	--	-	--	-	43	2	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	--	-	1800	4	--	-	--	-	--	-	--	-
...NAVICULACEAE												
....DIPLONEIS	--	-	--	-	*	0	--	-	--	-	--	-
....NAVICULA	540	4	19000#	43	120	1	230	8	170	3	260	2
...NITZSCHIACEAE												
....NITZSCHIA	--	-	4400	10	210	1	87	3	130	2	--	-
...SURIRELLACEAE												
....CYMATOPLEURA	130	1	--	-	--	-	--	-	--	-	--	-
....SURIRELLA	130	1	1300	3	*	0	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROCOCCALES												
...CHROCOCCACEAE												
....AGMENELLUM	--	-	--	-	--	-	--	-	250	4	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-	170	3	--	-
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	1500	7	--	-	--	-	--	-
...OSCILLATORIACEAE												
....OSCILLATORIA	8100#	65	--	-	--	-	--	-	1100#	20	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.CRYPTOPHYCEAE												
..CRYPTOMONIDALES												
...CRYPTOMONODACEAE												
....CRYPTOMONAS	270	2	--	-	--	-	--	-	*	0	--	-
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	*	0	8100#	56
....TRACHELOMONAS	--	-	--	-	--	-	--	-	42	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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
July 19	29	.528	.472	.010	.001	5600	Polyethylene strip

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1										---	---	---
2										---	---	---
3										---	---	---
4										---	---	---
5										---	---	---
6										---	---	---
7										---	---	---
8										---	---	---
9										---	---	---
10										---	---	---
11										---	---	---
12										---	---	---
13										---	---	---
14										---	---	---
15										---	---	---
16										---	---	---
17										---	---	---
18										---	---	---
19										---	---	---
20										---	---	---
21										1060	1030	1040
22										1100	1060	1080
23										1120	1090	1110
24										1140	1120	1130
25										1130	1120	1120
26										1110	688	838
27										---	---	---
28										---	---	---
29										---	---	---
30										---	---	---
31										---	---	---
MONTH										---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	490	475	485
2							---	---	---	501	487	493
3							---	---	---	515	490	500
4							---	---	---	504	484	494
5							---	---	---	500	488	494
6							---	---	---	501	484	491
7							---	---	---	490	462	479
8							---	---	---	483	457	471
9							---	---	---	474	455	464
10							---	---	---	490	474	483
11							---	---	---	499	484	492
12							---	---	---	508	478	498
13							---	---	---	524	510	517
14							---	---	---	533	514	521
15							---	---	---	530	517	523
16							---	---	---	532	517	524
17							---	---	---	536	523	529
18							---	---	---	533	521	527
19							---	---	---	538	523	529
20							---	---	---	539	521	530
21							---	---	---	541	524	531
22							---	---	---	535	523	530
23							---	---	---	535	527	530
24							---	---	---	539	526	530
25							500	429	483	544	526	533
26							496	472	492	545	532	536
27							498	466	492	552	530	540
28							500	485	494	---	---	---
29							495	484	491	---	---	---
30							492	466	482	---	---	---
31							---	---	---	530	510	517
MONTH							---	---	---	552	455	510

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	518	506	511	---	---	---	---	---	---	522	517	519
2	518	505	511	---	---	---	---	---	---	521	506	517
3	542	510	523	---	---	---	---	---	---	523	515	520
4	558	524	537	---	---	---	---	---	---	527	520	523
5	---	---	---	---	---	---	---	---	---	527	521	523
6	---	---	---	538	525	533	---	---	---	528	521	524
7	---	---	---	537	529	533	---	---	---	527	522	523
8	---	---	---	---	---	---	---	---	---	527	521	523
9	---	---	---	---	---	---	480	476	478	528	523	526
10	505	494	499	---	---	---	488	481	483	531	527	529
11	511	493	501	---	---	---	491	486	488	532	526	529
12	505	498	502	---	---	---	491	487	489	532	524	529
13	506	501	504	---	---	---	493	489	491	533	523	527
14	512	499	503	544	539	542	503	495	498	542	529	535
15	529	502	514	---	---	---	516	506	509	545	533	538
16	521	502	512	---	---	---	519	509	516	548	535	544
17	529	508	522	---	---	---	512	506	509	562	550	556
18	547	510	525	---	---	---	512	508	511	568	547	555
19	533	510	524	---	---	---	512	506	509	569	556	563
20	532	514	525	---	---	---	509	504	507	586	565	572
21	530	521	526	---	---	---	510	501	506	586	576	580
22	543	528	533	---	---	---	514	502	508	577	568	572
23	---	---	---	---	---	---	518	508	513	569	559	565
24	---	---	---	---	---	---	520	510	516	601	566	577
25	---	---	---	---	---	---	519	511	515	625	604	614
26	---	---	---	---	---	---	517	510	514	620	603	612
27	---	---	---	---	---	---	519	510	514	611	601	608
28	---	---	---	---	---	---	521	511	516	606	594	600
29	---	---	---	---	---	---	525	509	520	615	594	602
30	---	---	---	---	---	---	522	517	520	611	592	599
31	---	---	---	---	---	---	521	515	517	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	625	506	553
YEAR	1140	429	550									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1							---	---				
2							---	---				
3							---	---				
4							---	---				
5							---	---				
6							---	---				
7							---	---				
8							---	---				
9							---	---				
10							---	---				
11							---	---				
12							---	---				
13							---	---				
14							---	---				
15							---	---				
16							---	---				
17							---	---				
18							---	---				
19							---	---				
20							---	---				
21							17.5	9.5				
22							17.5	11.0				
23							18.5	8.5				
24							18.0	7.5				
25							16.5	8.0				
26							19.0	5.5				
27							---	---				
28							---	---				
29							---	---				
30							---	---				
31							---	---				
MONTH							---	---				

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	21.5	13.5	25.5	16.5	---	---	---	---	23.0	19.0
2	---	---	24.0	12.0	24.5	13.5	---	---	---	---	23.0	18.0
3	---	---	23.0	11.0	25.5	13.5	---	---	---	---	23.0	17.0
4	---	---	21.0	9.5	27.0	13.5	---	---	---	---	24.0	17.0
5	---	---	19.5	9.0	---	---	---	---	---	---	24.5	18.0
6	---	---	20.0	8.0	---	---	24.5	11.5	---	---	24.0	18.0
7	---	---	17.5	7.5	---	---	23.5	14.0	---	---	24.0	18.5
8	---	---	13.5	11.0	---	---	---	---	---	---	23.5	18.0
9	---	---	18.0	10.0	---	---	---	---	21.5	15.5	22.5	18.0
10	---	---	19.0	12.0	20.0	13.0	---	---	22.0	16.0	22.5	17.0
11	---	---	16.5	12.5	24.0	13.0	---	---	22.5	16.5	23.0	17.0
12	---	---	21.0	12.0	23.5	13.0	---	---	20.0	16.5	21.5	17.0
13	---	---	22.5	13.5	22.0	14.0	---	---	20.0	16.0	23.0	15.0
14	---	---	22.5	13.5	24.5	14.0	23.5	14.0	22.5	14.5	23.5	17.0
15	---	---	22.5	12.0	25.0	15.0	---	---	22.5	16.0	20.0	16.0
16	---	---	21.5	11.0	24.0	15.0	---	---	21.0	17.0	19.5	14.5
17	---	---	23.0	11.5	24.5	14.5	---	---	23.0	17.5	23.0	14.5
18	---	---	21.0	11.5	21.5	13.5	---	---	23.5	17.5	23.0	15.0
19	---	---	25.5	15.0	21.5	13.0	---	---	23.5	18.0	20.0	17.5
20	---	---	24.5	15.0	26.0	13.0	---	---	22.5	18.0	23.5	16.0
21	---	---	24.0	14.0	27.5	15.5	---	---	23.5	17.5	24.0	16.5
22	---	---	18.5	13.5	25.5	15.5	---	---	23.0	17.5	23.0	16.5
23	---	---	19.5	12.0	---	---	---	---	23.5	18.0	22.0	15.5
24	---	---	25.0	13.5	---	---	---	---	26.0	19.5	24.0	17.5
25	21.0	7.5	25.5	14.0	---	---	---	---	24.5	19.5	23.5	14.5
26	21.0	9.0	25.0	14.0	---	---	---	---	24.0	20.0	24.5	17.0
27	19.5	7.5	22.0	13.0	---	---	---	---	23.5	17.5	22.0	19.0
28	22.0	7.5	---	---	---	---	---	---	25.0	18.0	23.0	17.0
29	23.5	12.5	---	---	---	---	---	---	26.0	20.0	22.5	19.0
30	22.0	12.5	---	---	---	---	---	---	24.0	19.5	21.5	15.0
31	---	---	26.5	15.0	---	---	---	---	24.0	19.0	---	---
MONTH	---	---	26.5	7.5	---	---	---	---	---	---	24.5	14.5
YEAR	27.5	5.5										

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM
JAN 11...	1300	6.0	30	30	390	32	59
MAY 10...	1145	16.0	22	22	469	28	51
JUN 20...	1300	24.0	12	12	153	5.0	--
JUL 19...	1300	25.5	3.4	3.4	28	.26	--
AUG 16...	1320	21.0	40	40	24	2.6	--
SEP 13...	1200	20.0	25	25	15	1.0	--

11152300 SALINAS RIVER NEAR CHUALAR, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
JAN 11...	76	91	99	100	--	--	--
MAY 10...	78	92	100	--	--	--	--
JUN 20...	--	--	--	--	100	--	--
JUL 19...	--	--	--	--	97	99	100
AUG 16...	--	--	--	--	--	--	--
SEP 13...	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	NUMBER OF SAMPLING POINTS	DISCHARGE (CFS)	INSTANTANEOUS DISCHARGE (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 19...	1140	1	.00	.00	2	5	25	78
19...	1145	1	.00	.00	--	--	5	44
19...	1150	1	.00	.00	1	2	15	86
19...	1155	1	.00	.00	5	15	52	91

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 19...	96	98	98	99	99	99	100
19...	90	99	100	--	--	--	--
19...	99	100	--	--	--	--	--
19...	96	98	99	100	--	--	--

11152500 SALINAS RIVER NEAR SPRECKELS, CA

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

DRAINAGE AREA.--4,156 mi^2 (10,764 km^2).

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 20.56 ft (6.267 m) above mean sea level. 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, 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 for municipal use and irrigation of about 95,000 acres (384 km^2) above station. Low flow represents waste water from Spreckels sugar refinery and Alisal sewage disposal plant.

AVERAGE DISCHARGE.--48 years (water years 1930-77), 392 ft^3/s (11.10 m^3/s), 284,000 acre-ft/yr (350 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,100 ft^3/s (2,350 m^3/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, 73 ft^3/s (2.07 m^3/s) Oct. 4, gage height, 5.33 ft (1.625 m); minimum daily, 0.34 ft^3/s (0.010 m^3/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	1.2	.81	2.9	1.0	1.5	1.1	1.7	1.7	1.1	1.2	.91
2	4.0	1.1	.83	3.1	.93	1.5	.97	1.6	1.6	1.1	1.3	1.1
3	3.9	1.1	.87	4.3	1.0	1.5	1.1	1.7	1.7	1.1	1.2	1.2
4	38	1.1	.88	3.9	1.1	1.6	1.1	1.7	1.7	1.1	1.2	1.2
5	64	1.2	.83	3.7	1.1	1.5	1.1	1.7	1.7	1.1	1.1	1.2
6	42	1.2	.76	3.8	1.2	1.4	1.1	1.7	1.7	1.2	1.0	1.3
7	23	1.2	.79	19	1.2	1.4	1.1	1.7	1.6	1.1	1.1	1.3
8	9.7	1.3	.85	26	1.2	1.4	1.1	1.8	1.6	1.2	1.0	1.3
9	2.3	1.2	.91	25	1.2	1.3	1.2	1.9	1.6	1.2	1.1	1.3
10	.52	1.1	.90	20	1.0	1.3	1.1	1.9	1.6	1.2	1.0	1.4
11	.34	1.2	.94	16	1.1	1.3	1.1	2.2	1.6	1.2	.96	1.5
12	1.1	1.1	.98	12	1.2	1.3	1.1	2.1	1.5	1.2	1.0	1.3
13	1.3	1.1	1.0	9.4	1.1	1.2	1.2	2.0	1.4	1.2	1.0	1.4
14	1.2	1.1	1.2	6.6	1.2	1.2	1.1	1.9	1.4	1.2	.96	1.5
15	1.2	1.1	1.2	4.8	1.2	1.2	1.1	1.9	1.4	1.2	1.1	1.2
16	1.2	1.0	1.2	4.7	1.2	1.4	1.3	1.8	1.4	1.2	.99	1.2
17	1.3	1.0	1.4	5.2	1.2	1.2	1.2	1.8	1.3	1.2	.84	1.4
18	1.3	1.0	1.5	3.9	1.2	1.2	1.2	1.8	1.3	1.2	1.0	1.4
19	1.2	.93	1.5	3.2	1.2	1.3	1.2	1.8	1.3	1.2	1.0	1.5
20	1.3	.96	1.6	2.9	1.1	1.2	1.3	1.8	1.2	1.1	1.0	1.5
21	1.3	.97	1.7	2.4	1.2	1.4	1.3	1.7	1.2	1.1	.89	1.6
22	1.3	.93	1.6	2.0	1.3	1.2	1.3	1.8	1.2	1.3	.88	1.6
23	1.3	.95	1.7	1.8	1.3	1.2	1.4	1.8	1.1	1.3	1.0	1.6
24	1.2	.92	1.8	1.5	1.4	1.1	1.4	1.7	1.1	1.3	1.1	1.4
25	1.2	.88	1.9	1.4	1.4	1.1	1.3	1.8	1.1	1.3	1.1	1.4
26	1.2	.85	2.0	1.3	1.4	1.1	1.6	1.7	1.1	1.3	1.1	1.4
27	1.2	.91	2.1	1.2	1.5	1.1	1.8	1.8	1.1	1.3	1.2	1.4
28	1.2	.87	2.1	1.2	1.5	1.1	1.8	1.8	1.0	1.3	1.1	1.5
29	1.2	.86	2.2	1.1	---	.98	1.8	1.7	1.1	1.3	1.0	1.4
30	1.2	.82	3.1	1.1	---	1.1	1.8	1.7	1.1	1.3	1.1	1.6
31	1.2	---	3.2	1.1	---	1.2	---	1.8	---	1.2	1.2	---
TOTAL	216.86	31.15	44.35	196.5	33.63	39.48	38.27	55.8	41.4	37.3	32.72	41.01
MEAN	7.00	1.04	1.43	6.34	1.20	1.27	1.28	1.80	1.38	1.20	1.06	1.37
MAX	64	1.3	3.2	26	1.5	1.6	1.8	2.2	1.7	1.3	1.3	1.6
MIN	.34	.82	.76	1.1	.93	.98	.97	1.6	1.0	1.1	.84	.91
AC-FT	430	62	88	390	67	78	76	111	82	74	65	81

CAL YR 1976 TOTAL 1229.70 MEAN 3.36 MAX 64 MIN .34 AC-FT 2440
WTR YR 1977 TOTAL 808.47 MEAN 2.22 MAX 64 MIN .34 AC-FT 1600

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-54, 1958 to current year.
CHEMICAL ANALYSES: Water years 1952-54, 1958-70, 1972 to current year. Published incorrectly as station 11152300 "near Chualar" in 1967.
BIOLOGICAL DATA: Water years 1975-77 (discontinued).
SPECIFIC CONDUCTANCE: Water years 1975 to January 1977 (discontinued).
WATER TEMPERATURES: Water years 1967 to current year. Published incorrectly as station 11152300 "near Chualar" in 1967-69.
SEDIMENT RECORDS: Water years 1950-51, 1967 to current year. Published incorrectly as station 11152300 "near Chualar" in 1967-69.
TURBIDITY: Water year 1973.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to January 1977 (discontinued).
WATER TEMPERATURES: December 1966 to current year.
SEDIMENT RECORDS: December 1966 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1975.

REMARKS.--Low flow represents waste water from Spreckels sugar refinery and Alisal sewage disposal plant. Where no maximum or minimum is shown, temperature is once-daily reading.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE (water years 1976-77): Maximum, 1,560 micromhos Mar. 9, 1976; minimum, 324 micromhos Oct. 7, 1975.
WATER TEMPERATURES (water years 1976-77): Maximum, 25.5°C Sept. 26, 1976; minimum, 4.5°C Dec. 19, 1975.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 18,900 mg/L Feb. 25, 1969; minimum daily mean, no flow for several days in 1968.
SEDIMENT DISCHARGE: Maximum daily, 2,790,000 tons (2,531,000 tonnes) Feb. 26, 1969; minimum daily, 0 tons (0 tonnes) on several days in 1968.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,300 micromhos Nov. 10; minimum recorded, 602 micromhos Oct. 5.
WATER TEMPERATURES: Maximum recorded, 24.0°C Oct. 2; minimum recorded, 6.0°C Jan. 10, 11.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 54 mg/L Jan. 7; minimum daily mean, 11 mg/L Oct. 31 to Nov. 2.
SEDIMENT DISCHARGE: Maximum daily, 7.9 tons (7.2 tonnes) Oct. 5; minimum daily, 0.02 ton (0.02 tonne) Oct. 11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	FECAL STREP-TOCOCCI KF AGAR (COL. PER 100 ML)
OCT											
18...	1230	1.3	1.3	1150	7.2	21.5	10	--	--	5400	--
NOV											
09...	1200	1.2	.98	1400	7.2	19.0	15	--	--	--	--
16...	1100	1.0	.75	--	--	--	--	--	87	--	0
DEC											
13...	1245	1.0	1.0	1000	7.3	17.0	9	--	0	--	0
SEP											
01...	1650	.91	1.4	1100	7.2	22.5	--	7.8	--	--	--

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT										
18...	240	0	54	25	120	51	3.4	12	310	0
NOV										
09...	260	22	56	29	120	49	3.2	12	290	0
16...	--	--	--	--	--	--	--	--	--	--
DEC										
13...	190	26	43	20	100	52	3.2	12	200	0
SEP										
01...	220	31	54	21	110	50	3.2	14	230	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)
OCT										
18...	250	91	120	.4	48	606	623	.82	2.13	--
NOV										
09...	240	84	140	.6	44	684	628	.93	2.22	--
16...	--	--	--	--	--	--	--	--	--	--
DEC										
13...	160	68	120	.4	27	539	489	.73	1.46	--
SEP										
01...	190	62	170	.4	45	--	663	.90	1.63	8.7

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

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)
OCT										
18...	--	.49	--	--	--	18	18	12	--	--
NOV										
09...	--	4.4	--	--	--	18	22	12	--	--
16...	--	--	--	--	--	--	--	--	--	--
DEC										
13...	--	7.4	--	--	--	8.1	16	11	--	--
SEP										
01...	.08	--	8.8	17	11	28	--	15	11	34

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)
OCT											
18...	1230	5	2	3	--	--	<10	<10	0	--	0
SEP											
01...	1650	--	--	5	1	320	<10	<9	1	<1	40

DATE	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)
OCT											
18...	0	0	--	--	<50	<50	0	--	40	26	14
SEP											
01...	--	--	10	0	<50	<49	1	5	70	49	21

DATE	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT											
18...	--	330	120	100	97	3	--	210	30	180	.0
SEP											
01...	18	--	50	<100	<97	3	<10	--	--	--	.1

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	PCB IN BOTTOM MA-TERIAL (UG/KG)
OCT										
18...	--	1	0	1	60	20	40	--	32	--
SEP										
01...	.3	--	--	--	120	50	70	70	42	5

DATE	TIME	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	ATRA-ZINE IN BOTTOM MATERI-AL (UG/KG DRY SOLIDS)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	DDD IN BOTTOM MA-TERIAL (UG/KG)	DDE IN BOTTOM MA-TERIAL (UG/KG)	P,P' DDE IN BOTTOM MA-TERIAL (UG/KG)	DDT IN BOTTOM MA-TERIAL (UG/KG)	P,P' DDT IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)
NOV										
16...	1100	ND	ND	0	ND	--	.0	--	.0	--
SEP										
01...	1650	.0	--	16	1.8	4.3	--	.0	--	.08

DATE	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)
NOV									
16...	ND	.0	ND	--	ND	ND	ND	ND	--
SEP									
01...	.4	2.6	.0	.00	.0	.2	.1	.0	.00

ND Material specifically analyzed for but not detected.

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHOXYCHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL TRITHION (UG/L)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL PARATHION (UG/L)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)
NOV 16...	ND	ND	--	ND	--	ND	--	ND	ND
SEP 01...	.0	--	.00	.0	.00	.0	.00	.0	0

DATE	TOTAL TRITHION (UG/L)	TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	2,4-D IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MATERIAL (UG/KG)	SIMAZINE IN BOTTOM MATERIAL (UG/KG DRY SOLIDS)
NOV 16...	--	ND	--	ND	--	ND	--	ND	ND
SEP 01...	.00	.0	.16	0	.00	0	.03	0	--

ND Material specifically analyzed for but not detected.

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

	OCT 4,76		NOV 9,76		DEC 13,76	
DATE						
TIME	1230		1200		1245	
TOTAL CELLS/ML	1100		6000		6300	
DIVERSITY: DIVISION	1.3		0.6		1.6	
.CLASS	1.3		0.6		1.6	
..ORDER	1.6		0.6		1.6	
...FAMILY	1.6		0.7		1.7	
....GENUS	1.8		0.7		0.0	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...SCENEDESMACEAE						
....CRUCIGENIA	110	9	160	3	--	-
....SCENEDESMUS	110	9	--	-	*	0
..TETRASPORALES						
...PALMELLACEAE	--	-	--	-	1400#	22
..ZYGNEMATALES						
...DESMIDIACEAE						
....COSMARIUM	53	5	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	79	7	--	-	--	-
..PENNALES						
...FRAGILARIACEAE						
....SYNEDRA	--	-	120	2	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	*	0
...NAVICULACEAE						
....NAVICULA	26	2	160	3	--	-
...NITZSCHIACEAE						
....NITZSCHIA	--	-	230	4	390	6
.CHRYSOPHYCEAE						
..CHRYSOMONADALES						
...OCHROMONADACEAE						
....OCHROMONAS	26	2	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROCCOCCALES						
...CHROCCOCCACEAE						
....ANACYSTIS	740#	65	--	-	--	-
..HORMOGONALES						
...OSCILLATORIACEAE						
....LYNGBYA	--	-	--	-	270	4
....OSCILLATORIA	--	-	5400#	89	3400#	54
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	*	0	71	1
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..PERIDINIALES						
...CERATIACEAE						
....CERATIUM	--	-	--	-	770	12

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

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Nov. 9	22	36.3	61.1	-	-	-	Polyethylene strip

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1150	966	1080	---	---	---	1090	906	1020	1040	907	1000
2	1210	1010	1100	---	---	---	1080	915	1010	1100	843	989
3	1090	584	805	---	---	---	1060	899	995	913	770	827
4	1100	610	881	---	---	---	1090	936	1030	1040	850	932
5	1010	602	688	---	---	---	1080	919	1030	1120	959	1040
6	1070	610	903	---	---	---	1070	906	994	1150	942	1030
7	1080	683	795	---	---	---	1120	974	1050	1010	877	966
8	1100	800	970	---	---	---	1080	958	1020	995	814	916
9	1050	954	997	---	---	---	1040	945	995	837	712	801
10	---	---	---	1300	1090	1190	1030	944	987	917	830	881
11	---	---	---	1280	1040	1160	1000	920	965	971	911	941
12	---	---	---	1250	1040	1130	959	852	916	1030	708	979
13	---	---	---	1230	1040	1150	1120	907	999	---	---	---
14	---	---	---	1230	1070	1150	1150	985	1090	---	---	---
15	---	---	---	1270	1070	1160	1130	971	1070	---	---	---
16	---	---	---	1270	1060	1150	1130	962	1050	---	---	---
17	---	---	---	1210	1050	1100	1190	892	1020	---	---	---
18	---	---	---	1200	1030	1100	1220	1060	1150	---	---	---
19	1220	1060	1150	1220	1030	1120	1110	954	1060	---	---	---
20	1210	997	1090	1190	1030	1120	1110	977	1060	---	---	---
21	1190	1050	1090	1180	1020	1090	1130	951	1080	---	---	---
22	---	---	---	1190	1000	1080	1170	994	1090	---	---	---
23	---	---	---	1180	988	1080	1090	934	1040	---	---	---
24	---	---	---	1170	995	1080	1060	911	1020	---	---	---
25	---	---	---	1150	983	1070	1170	878	1020	---	---	---
26	---	---	---	1160	966	1080	1080	953	1040	---	---	---
27	---	---	---	1150	1000	1100	1090	928	1030	---	---	---
28	---	---	---	1140	969	1070	1110	918	1030	---	---	---
29	---	---	---	1140	976	1070	1060	908	1000	---	---	---
30	---	---	---	1120	947	1050	999	695	874	---	---	---
31	---	---	---	---	---	---	986	761	872	---	---	---
MONTH	---	---	---	---	---	---	1220	695	1020	---	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	22.5	--	19.0	--	--	--	17.5	--	15.0	16.5	--	15.0	--	--	--	--	--	--
2	24.0	--	20.0	--	--	--	18.0	--	15.5	16.5	--	15.0	--	--	--	--	--	--
3	23.0	--	9.5	--	--	--	18.0	--	16.0	16.0	--	14.5	--	15.5	--	--	--	--
4	20.5	--	11.0	--	--	--	18.0	--	16.0	16.0	--	14.0	--	--	--	--	17.5	--
5	23.0	--	11.0	--	--	--	18.0	--	16.5	16.0	--	14.0	--	--	--	--	--	--
6	22.5	--	12.5	--	--	--	18.0	--	16.0	16.0	--	13.5	--	--	--	--	--	--
7	23.0	--	13.0	--	--	--	17.5	--	15.5	14.0	--	8.5	--	--	--	--	--	--
8	22.0	--	16.5	--	--	--	17.5	--	15.5	9.5	--	8.0	--	--	--	--	--	--
9	23.5	--	20.0	--	19.0	--	18.0	--	16.5	8.5	--	7.0	--	--	--	--	--	--
10	--	--	--	20.0	--	18.5	17.5	--	15.5	8.0	--	6.0	--	--	--	--	--	--
11	--	--	--	19.0	--	18.5	17.5	--	15.5	8.0	--	6.0	--	--	--	--	--	--
12	--	--	--	19.5	--	18.0	17.5	--	15.5	9.0	--	6.5	--	--	--	--	--	--
13	--	22.0	--	19.5	--	18.0	17.5	--	16.0	9.5	--	7.0	--	--	--	--	--	--
14	--	--	--	20.0	--	18.5	17.5	--	16.0	10.0	--	8.0	--	17.0	--	--	--	--
15	--	--	--	20.5	--	19.0	17.0	--	15.5	11.5	--	7.0	--	--	--	--	--	--
16	--	--	--	20.5	--	19.0	17.0	--	15.0	12.0	--	7.5	--	--	--	--	16.0	--
17	--	--	--	20.5	--	18.5	17.0	--	15.0	12.0	--	7.5	--	--	--	--	--	--
18	--	21.5	--	20.0	--	18.5	17.0	--	15.0	--	9.0	--	--	--	--	--	--	--
19	22.0	--	20.0	20.0	--	18.5	17.0	--	15.5	--	--	--	--	--	--	--	--	--
20	21.5	--	19.5	19.5	--	19.0	17.0	--	15.0	--	--	--	--	--	--	--	--	--
21	21.5	--	19.5	19.5	--	19.0	17.0	--	15.5	--	--	--	--	--	--	--	--	--
22	--	--	--	19.5	--	18.0	16.5	--	15.0	--	--	--	--	--	--	--	--	--
23	--	--	--	19.5	--	18.0	16.5	--	15.5	--	--	--	--	16.5	--	--	--	--
24	--	--	--	19.5	--	17.5	17.0	--	15.0	--	--	--	--	--	--	--	--	--
25	--	--	--	19.5	--	18.0	16.5	--	15.0	--	--	--	--	--	--	--	--	--
26	--	20.5	--	19.0	--	17.5	16.5	--	14.0	--	--	--	--	--	--	--	--	--
27	--	--	--	18.0	--	16.5	16.5	--	14.0	--	--	--	--	--	--	--	--	--
28	--	--	--	17.5	--	15.5	16.5	--	14.5	--	--	--	--	--	--	--	--	--
29	--	--	--	17.5	--	15.0	16.5	--	14.5	--	--	--	--	--	--	--	--	--
30	--	--	--	17.5	--	15.0	16.5	--	15.0	--	--	--	--	--	--	--	17.5	--
31	--	--	--	--	--	--	16.5	--	15.0	--	--	--	--	--	--	--	--	--
MONTH	--	--	--	--	--	--	18.0	--	14.0	--	--	--	--	--	--	--	--	--

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	APR MAX	APR DAILY	APR MIN	MAY MAX	MAY DAILY	MAY MIN	JUN MAX	JUN DAILY	JUN MIN	JUL MAX	JUL DAILY	JUL MIN	AUG MAX	AUG DAILY	AUG MIN	SEP MAX	SEP DAILY	SEP MIN
1	--	16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22.5	--
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	21.0	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	17.0	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	17.5	--	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21	--	17.0	--	--	--	--	--	--	--	--	23.0	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	21.0	--	--	23.0	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	--	20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	23.0	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER MEAN DISCHARGE (CFS)	OCTOBER MEAN CONCENTRATION (MG/L)	OCTOBER SEDIMENT DISCHARGE (TONS/DAY)	NOVEMBER MEAN DISCHARGE (CFS)	NOVEMBER MEAN CONCENTRATION (MG/L)	NOVEMBER SEDIMENT DISCHARGE (TONS/DAY)	DECEMBER MEAN DISCHARGE (CFS)	DECEMBER MEAN CONCENTRATION (MG/L)	DECEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	4.5	12	.15	1.2	11	.04	.81	12	.03
2	4.0	12	.13	1.1	11	.03	.83	12	.03
3	3.9	12	.13	1.1	12	.04	.87	12	.03
4	38	49	7.1	1.1	13	.04	.88	14	.03
5	64	45	7.9	1.2	14	.05	.83	14	.03
6	42	32	3.6	1.2	16	.05	.76	14	.03
7	23	30	1.9	1.2	17	.06	.79	15	.03
8	9.7	29	.76	1.3	19	.07	.85	16	.04
9	2.3	27	.17	1.2	21	.07	.91	16	.04
10	.52	25	.04	1.1	20	.06	.90	15	.04
11	.34	24	.02	1.2	19	.06	.94	14	.04
12	1.1	22	.07	1.1	19	.06	.98	14	.04
13	1.3	20	.07	1.1	18	.05	1.0	13	.04
14	1.2	20	.06	1.1	18	.05	1.2	13	.04
15	1.2	19	.06	1.1	17	.05	1.2	13	.04
16	1.2	18	.06	1.0	12	.03	1.2	13	.04
17	1.3	17	.06	1.0	12	.03	1.4	13	.05
18	1.3	16	.06	1.0	12	.03	1.5	13	.05
19	1.2	17	.06	.93	12	.03	1.5	13	.05
20	1.3	18	.06	.96	12	.03	1.6	13	.06
21	1.3	18	.06	.97	12	.03	1.7	13	.06
22	1.3	17	.06	.93	12	.03	1.6	13	.06
23	1.3	16	.06	.95	12	.03	1.7	16	.07
24	1.2	15	.05	.92	12	.03	1.8	20	.10
25	1.2	14	.05	.88	12	.03	1.9	20	.10
26	1.2	13	.04	.85	12	.03	2.0	20	.11
27	1.2	12	.04	.91	12	.03	2.1	25	.14
28	1.2	12	.04	.87	12	.03	2.1	25	.14
29	1.2	12	.04	.86	12	.03	2.2	25	.15
30	1.2	12	.04	.82	12	.03	3.1	30	.25
31	1.2	11	.04	---	---	---	3.2	30	.26
TOTAL	216.86	---	22.98	31.15	---	1.23	44.35	---	2.22

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.9	30	.23	1.0	31	.08	1.5	28	.11
2	3.1	30	.25	.93	31	.08	1.5	30	.12
3	4.3	30	.35	1.0	31	.08	1.5	31	.13
4	3.9	30	.32	1.1	31	.09	1.6	33	.14
5	3.7	30	.30	1.1	29	.09	1.5	30	.12
6	3.8	30	.31	1.2	28	.09	1.4	28	.11
7	19	54	3.1	1.2	27	.09	1.4	27	.10
8	26	39	2.7	1.2	26	.08	1.4	26	.10
9	25	27	1.8	1.2	25	.08	1.3	25	.09
10	20	24	1.3	1.0	24	.06	1.3	25	.09
11	16	22	.95	1.1	23	.07	1.3	24	.08
12	12	21	.68	1.2	22	.07	1.3	24	.08
13	9.4	23	.58	1.1	21	.06	1.2	24	.08
14	6.6	28	.50	1.2	20	.06	1.2	23	.07
15	4.8	29	.38	1.2	20	.06	1.2	23	.07
16	4.7	31	.39	1.2	20	.06	1.4	23	.09
17	5.2	31	.44	1.2	20	.06	1.2	23	.07
18	3.9	31	.33	1.2	20	.06	1.2	23	.07
19	3.2	31	.27	1.2	19	.06	1.3	23	.08
20	2.9	31	.24	1.1	19	.06	1.2	23	.07
21	2.4	31	.20	1.2	19	.06	1.4	23	.09
22	2.0	31	.17	1.3	18	.06	1.2	22	.07
23	1.8	31	.15	1.3	18	.06	1.2	22	.07
24	1.5	31	.13	1.4	18	.07	1.1	22	.07
25	1.4	31	.12	1.4	20	.08	1.1	21	.06
26	1.3	31	.11	1.4	22	.08	1.1	21	.06
27	1.2	31	.10	1.5	24	.10	1.1	21	.06
28	1.2	31	.10	1.5	26	.11	1.1	21	.06
29	1.1	31	.09	---	---	---	.98	20	.05
30	1.1	31	.09	---	---	---	1.1	20	.06
31	1.1	31	.09	---	---	---	1.2	20	.06
TOTAL	196.5	---	16.77	33.63	---	2.06	39.48	---	2.58

	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	1.1	20	.06	1.7	25	.11	1.7	28	.13
2	.97	20	.05	1.6	25	.11	1.6	28	.12
3	1.1	20	.06	1.7	28	.13	1.7	26	.12
4	1.1	20	.06	1.7	28	.13	1.7	26	.12
5	1.1	20	.06	1.7	28	.13	1.7	26	.12
6	1.1	20	.06	1.7	30	.14	1.7	26	.12
7	1.1	20	.06	1.7	30	.14	1.6	26	.11
8	1.1	20	.06	1.8	30	.15	1.6	26	.11
9	1.2	20	.06	1.9	32	.16	1.6	26	.11
10	1.1	20	.06	1.9	32	.16	1.6	26	.11
11	1.1	21	.06	2.2	32	.19	1.6	26	.11
12	1.1	21	.06	2.1	32	.18	1.5	26	.11
13	1.2	21	.07	2.0	32	.17	1.4	26	.10
14	1.1	21	.06	1.9	32	.16	1.4	26	.10
15	1.1	21	.06	1.9	32	.16	1.4	25	.09
16	1.3	21	.07	1.8	32	.16	1.4	25	.09
17	1.2	21	.07	1.8	32	.16	1.3	25	.09
18	1.2	21	.07	1.8	32	.16	1.3	25	.09
19	1.2	21	.07	1.8	32	.16	1.3	25	.09
20	1.3	21	.07	1.8	32	.16	1.2	25	.08
21	1.3	21	.07	1.7	32	.15	1.2	25	.08
22	1.3	21	.07	1.8	32	.16	1.2	25	.08
23	1.4	21	.08	1.8	28	.14	1.1	25	.07
24	1.4	21	.08	1.7	28	.13	1.1	24	.07
25	1.3	21	.07	1.8	28	.14	1.1	24	.07
26	1.6	25	.11	1.7	28	.13	1.1	24	.07
27	1.8	25	.12	1.8	28	.14	1.1	24	.07
28	1.8	25	.12	1.8	28	.14	1.0	24	.06
29	1.8	25	.12	1.7	28	.13	1.1	24	.07
30	1.8	25	.12	1.7	28	.13	1.1	24	.07
31	---	---	---	1.8	28	.14	---	---	---
TOTAL	38.27	---	2.21	55.8	---	4.55	41.4	---	2.83

11152500 SALINAS RIVER NEAR SPRECKELS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	1.1	24	.07	1.2	24	.08	.91	24	.06
2	1.1	24	.07	1.3	24	.08	1.1	24	.07
3	1.1	24	.07	1.2	24	.08	1.2	24	.08
4	1.1	24	.07	1.2	24	.08	1.2	24	.08
5	1.1	24	.07	1.1	24	.07	1.2	24	.08
6	1.2	24	.08	1.0	24	.06	1.3	24	.08
7	1.1	24	.07	1.1	24	.07	1.3	24	.08
8	1.2	24	.08	1.0	24	.06	1.3	24	.08
9	1.2	24	.08	1.1	24	.07	1.3	24	.08
10	1.2	24	.08	1.0	24	.06	1.4	24	.09
11	1.2	24	.08	.96	24	.06	1.5	24	.10
12	1.2	24	.08	1.0	24	.06	1.3	24	.08
13	1.2	24	.08	1.0	24	.06	1.4	24	.09
14	1.2	24	.08	.96	24	.06	1.5	24	.10
15	1.2	24	.08	1.1	24	.07	1.2	24	.08
16	1.2	24	.08	.99	24	.06	1.2	24	.08
17	1.2	24	.08	.84	24	.05	1.4	24	.09
18	1.2	24	.08	1.0	24	.06	1.4	24	.09
19	1.2	24	.08	1.0	24	.06	1.5	24	.10
20	1.1	24	.07	1.0	24	.06	1.5	24	.10
21	1.1	24	.07	.89	24	.06	1.6	24	.10
22	1.3	24	.08	.88	24	.06	1.6	24	.10
23	1.3	24	.08	1.0	24	.06	1.6	24	.10
24	1.3	24	.08	1.1	24	.07	1.4	24	.09
25	1.3	24	.08	1.1	24	.07	1.4	24	.09
26	1.3	24	.08	1.1	24	.07	1.4	24	.09
27	1.3	24	.08	1.2	24	.08	1.4	24	.09
28	1.3	24	.08	1.1	24	.07	1.5	24	.10
29	1.3	24	.08	1.0	24	.06	1.4	24	.09
30	1.3	24	.08	1.1	24	.07	1.6	24	.10
31	1.2	24	.08	1.2	24	.08	---	---	---
TOTAL	37.3	---	2.40	32.72	---	2.06	41.01	---	2.64
YEAR	808.47		64.53						

11152540 EL TORO CREEK NEAR SPRECKELS, CA

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

DRAINAGE AREA.--31.9 mi^2 (82.6 km^2).

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 fair except those for period of no gage-height record May 4 to June 9, which are poor. No regulation or diversion above station except for minor stock ponds.

AVERAGE DISCHARGE.--16 years, 1.45 ft^3/s (0.041 m^3/s), 1,050 acre-ft/yr (1.29 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 626 ft^3/s (17.7 m^3/s) Jan. 26, 1969, gage height, 5.99 ft (1.826 m), from rating curve extended above 93 ft^3/s (2.63 m^3/s) on basis of slope-area measurement of maximum flow; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16 ft^3/s (0.45 m^3/s) Jan. 2, gage height, 3.32 ft (1.012 m), no peak above base of 20 ft^3/s (0.6 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.07	.06	.13	.21	.12	.12	.42	.04			
2	.09	.08	.06	2.2	.19	.12	.11	.44	.04			
3	.05	.08	.07	3.1	.18	.12	.11	.06	.04			
4	.04	.07	.07	.24	.18	.11	.11	.06	.03			
5	.03	.08	.07	2.0	.18	.11	.11	.06	.03			
6	.02	.08	.07	.32	.17	.11	.11	.07	.03			
7	.02	.08	.07	.38	.16	.11	.11	.09	.03			
8	.02	.08	.07	.17	.17	.12	.11	.12	.04			
9	.02	.07	.08	.13	.16	.12	.10	.14	.05			
10	.03	.10	.07	.31	.16	.11	.10	.08	.05			
11	.03	.25	.07	.24	.16	.11	.10	.10	.03			
12	.02	.11	.08	.12	.16	.11	.10	.09	.04			
13	.01	.07	.08	.12	.15	.13	.11	.08	.04			
14	.01	.11	.08	.12	.14	.11	.10	.07	.06			
15	.03	.06	.08	.13	.13	.34	.10	.07	.04			
16	.03	.06	.08	.14	.14	.74	.09	.07	.03			
17	.03	.06	.08	.14	.14	.15	.09	.07	.02			
18	.04	.06	.08	.14	.13	.14	.08	.06	.03			
19	.05	.06	.08	.14	.14	.13	.09	.06	.05			
20	.05	.07	.09	.14	.13	.13	.09	.05	.03			
21	.05	.07	.09	.14	.15	.13	.08	.05	.02			
22	.06	.06	.10	.15	.12	.13	.08	.05	.01			
23	.06	.06	.10	.16	.13	.13	.07	.05	.01			
24	.07	.06	.10	.16	.12	.15	.07	.05	.01			
25	.07	.06	.10	.17	.12	.14	.10	.05	.01			
26	.05	.07	.10	.16	.12	.13	.08	.05	.01			
27	.05	.06	.10	.18	.12	.13	.08	.04	.01			
28	.05	.07	.10	.17	.11	.13	.06	.04	.01			
29	.09	.07	.11	.17	---	.13	.08	.04	.01			
30	.09	.06	1.4	.19	---	.12	.08	.04	0			
31	.09	---	.28	.19	---	.11	---	.04	---			---
TOTAL	2.65	2.34	4.07	12.25	4.17	4.67	2.82	2.76	.85	0	0	0
MEAN	.086	.078	.13	.40	.15	.15	.094	.089	.028	0	0	0
MAX	1.3	.25	1.4	3.1	.21	.74	.12	.44	.06	0	0	0
MIN	.01	.06	.06	.12	.11	.11	.06	.04	0	0	0	0
AC-FT	5.3	4.6	8.1	24	8.3	9.3	5.6	5.5	1.7	0	0	0

CAL YR 1976 TOTAL 37.34 MEAN .10 MAX 1.8 MIN 0 AC-FT 74
WTR YR 1977 TOTAL 36.58 MEAN .10 MAX 3.1 MIN 0 AC-FT 73

TEMBLADERO SLOUGH BASIN

11152600 GABILAN CREEK NEAR SALINAS, CA

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

DRAINAGE AREA.--36.7 mi^2 (95.1 km^2).

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

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.--No flow since May 14, 1975. No regulation or diversion above station.

AVERAGE DISCHARGE.--7 years, 3.59 ft^3/s (0.102 m^3/s), 2,600 acre-ft/yr (3.21 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--No flow during year.

11152650 RECLAMATION DITCH NEAR SALINAS, CA

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

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 473 ft^3/s (13.4 m^3/s) Apr. 2, 1974; minimum daily, 0.23 ft^3/s (0.007 m^3/s) July 5, 1977.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	.68	3.3	25	.63	2.8	3.6	22	4.7	6.7	4.2	10
2	33	2.9	4.5	12	.85	3.0	4.0	5.3	7.3	8.4	6.2	9.2
3	4.6	4.2	2.5	71	1.2	3.4	1.7	7.7	8.0	4.1	8.8	11
4	1.5	7.0	4.0	55	1.2	3.2	1.4	8.8	7.3	1.2	7.2	6.8
5	2.0	6.4	1.5	17	.98	3.4	2.3	9.5	4.0	.23	4.8	4.1
6	2.3	4.0	1.3	6.1	.98	2.8	4.0	11	3.2	1.6	6.5	3.4
7	2.8	2.0	2.8	3.4	.79	2.5	5.0	11	7.7	4.7	7.0	7.9
8	3.0	.68	2.5	2.1	3.5	2.3	4.8	14	3.5	5.7	4.9	10
9	2.8	3.6	4.6	1.3	3.0	4.5	4.5	20	4.9	5.1	6.0	10
10	1.2	5.5	4.5	1.6	1.8	3.3	4.2	7.9	5.7	3.2	9.4	10
11	.68	19	2.9	1.6	1.7	5.0	2.6	21	4.8	1.4	9.2	8.6
12	2.9	22	1.5	1.3	1.6	5.5	5.0	41	2.8	2.5	9.3	7.4
13	4.8	7.5	.98	1.0	1.0	5.7	4.8	4.5	.27	5.3	8.8	8.7
14	8.1	23	4.0	.98	1.9	3.0	5.1	2.2	1.7	4.5	6.9	8.4
15	6.8	7.9	5.1	.98	2.3	6.1	5.0	1.3	3.4	4.3	3.8	7.5
16	6.8	7.2	4.6	.73	1.9	40	5.3	.63	5.0	5.5	7.5	8.2
17	4.6	7.0	5.1	.73	2.1	4.6	4.3	3.0	5.5	3.3	8.7	5.4
18	2.1	8.3	3.9	1.4	2.0	3.4	3.6	5.7	5.4	1.7	9.2	3.1
19	7.7	8.8	1.5	2.2	1.6	3.6	5.7	10	2.8	3.1	9.6	8.4
20	7.2	7.7	.91	1.7	.79	1.5	5.5	4.0	.76	6.1	8.7	9.0
21	6.2	3.4	1.8	1.4	6.1	1.4	4.8	1.5	2.5	7.4	5.8	7.1
22	6.6	2.2	2.9	1.5	2.2	3.9	5.1	1.2	2.9	6.6	4.1	5.6
23	5.5	6.4	3.7	.85	4.0	4.5	6.1	.68	3.3	7.3	5.9	6.6
24	3.6	6.1	1.8	.73	1.8	7.9	4.8	2.5	6.2	6.8	10	8.5
25	1.8	4.3	1.1	.85	1.6	5.5	3.4	5.5	7.6	2.9	12	5.1
26	4.5	2.4	1.2	1.3	1.5	4.6	4.6	5.5	2.3	6.3	10	2.4
27	4.8	4.8	1.1	1.2	.79	2.9	6.6	7.1	.37	5.9	9.6	6.2
28	4.6	1.8	1.2	.98	1.6	2.0	7.0	6.2	3.1	7.2	7.9	6.4
29	6.4	1.1	1.8	.79	---	4.5	5.5	6.3	4.6	9.2	5.3	6.1
30	5.3	3.4	74	.73	---	3.9	9.2	4.8	4.9	9.3	7.9	7.5
31	1.4	---	93	.53	---	3.6	---	2.8	---	7.5	9.0	---
TOTAL	196.58	191.26	245.59	217.98	51.41	154.3	139.5	254.61	126.50	155.03	234.2	218.6
MEAN	6.34	6.38	7.92	7.03	1.84	4.98	4.65	8.21	4.22	5.00	7.55	7.29
MAX	41	23	93	71	6.1	40	9.2	41	8.0	9.3	12	11
MIN	.68	.68	.91	.53	.63	1.4	1.4	.63	.27	.23	3.8	2.4
AC-FT	390	379	487	432	102	306	277	505	251	308	465	434

CAL YR 1976 TOTAL 2432.06 MEAN 6.65 MAX 93 MIN .63 AC-FT 4820
WTR YR 1977 TOTAL 2185.56 MEAN 5.99 MAX 93 MIN .23 AC-FT 4340

11152900 CEDAR CREEK NEAR BELL STATION, CA

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

DRAINAGE AREA.--12.8 mi^2 (33.2 km^2).

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 poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--16 years, 3.89 ft^3/s (0.110 m^3/s), 2,820 acre-ft/yr (3.48 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.5 ft^3/s (0.042 m^3/s) Oct. 1, gage height, 1.36 ft (0.415 m), no peak above base of 150 ft^3/s (4.2 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	0	.02	.04	.04	.04	.05	.04	.01			
2	.09	.01	.02	.17	.04	.04	.05	.03	.01			
3	.05	.01	.02	.10	.04	.04	.05	.03	.01			
4	.03	.01	.02	.06	.04	.04	.04	.03	.01			
5	.01	0	.02	.05	.04	.03	.04	.02	.01			
6	.01	0	.02	.07	.04	.03	.04	.02	.01			
7	.01	0	.02	.05	.04	.03	.04	.03	.01			
8	.01	0	.02	.05	.05	.03	.04	.05	.01			
9	0	0	.02	.04	.06	.04	.04	.07	.01			
10	0	0	.02	.04	.05	.04	.04	.06	.01			
11	0	.02	.02	.04	.05	.04	.03	.06	.01			
12	0	.04	.02	.05	.04	.03	.03	.07	.01			
13	0	.02	.02	.05	.04	.04	.03	.06	.01			
14	0	.04	.02	.04	.04	.04	.03	.05	.01			
15	0	.03	.02	.04	.04	.04	.03	.05	.01			
16	0	.02	.02	.04	.04	.07	.03	.04	.01			
17	0	.02	.02	.04	.04	.05	.02	.03	.01			
18	0	.02	.01	.04	.04	.05	.02	.02	.01			
19	0	.02	.01	.04	.04	.06	.02	.03	.01			
20	0	.02	.01	.04	.04	.06	.02	.02	.01			
21	0	.02	.01	.04	.07	.06	.02	.02	.01			
22	0	.02	.01	.04	.05	.05	.02	.02	0			
23	0	.02	.01	.04	.07	.05	.02	.02	0			
24	.01	.02	.01	.04	.05	.06	.02	.02	0			
25	.01	.02	.01	.04	.05	.06	.02	.02	0			
26	0	.02	.02	.04	.04	.05	.02	.02	0			
27	0	.02	.03	.04	.04	.05	.02	.01	0			
28	0	.02	.03	.04	.04	.05	.03	.01	0			
29	0	.02	.04	.04	---	.05	.02	.01	0			
30	0	.02	.11	.04	---	.05	.02	.01	0			
31	0	---	.08	.04	---	.05	---	.01	---			---
TOTAL	.50	.48	.73	1.53	1.26	1.42	.90	.98	.21	0	0	0
MEAN	.016	.016	.024	.049	.045	.046	.030	.032	.007	0	0	0
MAX	.27	.04	.11	.17	.07	.07	.05	.07	.01	0	0	0
MIN	0	0	.01	.04	.04	.03	.02	.01	0	0	0	0
AC-FT	1.0	1.0	1.4	3.0	2.5	2.8	1.8	1.9	.4	0	0	0

CAL YR 1976 TOTAL 6.29 MEAN .017 MAX .29 MIN 0 AC-FT 12
WTR YR 1977 TOTAL 8.01 MEAN .022 MAX .27 MIN 0 AC-FT 16

11153000 PACHECO CREEK NEAR DUNNEVILLE, CA

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

DRAINAGE AREA.--146 mi^2 (378 km^2).

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) above mean sea level. 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 fair. Flow regulated by Pacheco Lake 9 mi (14 km) upstream, capacity, 6,150 acre-ft (7.58 hm^3). Small diversions above station for irrigation.

AVERAGE DISCHARGE.--38 years, 32.3 ft^3/s (0.915 m^3/s), 23,400 acre-ft/yr (28.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s (357 m^3/s) Dec. 23, 1955, gage height, 21.0 ft (6.40 m), present site and datum, from floodmarks, from rating curve extended above 5,400 ft^3/s (153 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.92 ft^3/s (0.026 m^3/s) Oct. 1, gage height, 3.76 ft (1.146 m); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09							0	0			
2	0							0	0			
3	0							0	0			
4	0							0	0			
5	0							0	0			
6	0							0	0			
7	0							.02	0			
8	0							0	0			
9	0							.01	0			
10	0							0	.01			
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	.06			
20	0							0	.01			
21	0							0	0			
22	0							0	0			
23	0							.03	0			
24	0							.09	0			
25	0							.07	0			
26	0							0	0			
27	0							0	0			
28	0							0	0			
29	0				---			0	0			
30	0				---			0	0			
31	0	---			---		---	0	---			---
TOTAL	.09	0	0	0	0	0	0	.22	.08	0	0	0
MEAN	.003	0	0	0	0	0	0	.007	.003	0	0	0
MAX	.09	0	0	0	0	0	0	.09	.06	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.2	0	0	0	0	0	0	.4	.2	0	0	0

CAL YR 1976 TOTAL 1.79 MEAN .0050 MAX .31 MIN 0 AC-FT 3.6
WTR YR 1977 TOTAL 0.39 MEAN .0010 MAX .09 MIN 0 AC-FT .8

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, on left bank 200 ft (61 m) upstream from small left-bank tributary, 5.7 mi (9.2 km) upstream from Chesbro Dam, and 6.4 mi (10.3 km) west of Morgan Hill.

DRAINAGE AREA.--9.61 mi^2 (24.89 km^2).

WATER-DISCHARGE RECORDS

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. No regulation or diversion above station.

AVERAGE DISCHARGE.--6 years, 6.58 ft^3/s (0.186 m^3/s), 4,770 acre-ft/yr (5.88 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 795 ft^3/s (22.5 m^3/s) Jan. 16, 1973, gage height, 6.18 ft (1.884 m), from rating curve extended above 180 ft^3/s (5.10 m^3/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, 8.6 ft^3/s (0.24 m^3/s) Jan. 2, gage height, 2.67 ft (0.814 m), no peak above base of 200 ft^3/s (5.7 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.67	.30	.46	.33	0				
2			0	2.3	.27	.54	.33	0				
3			0	4.2	.27	.54	.32	0				
4			0	1.7	.27	.54	.27	0				
5			0	1.2	.25	.46	.27	0				
6			0	.96	.26	.39	.26	0				
7			0	.77	.27	.39	.25	0				
8			0	.67	.30	.39	.27	.22				
9			0	.64	.32	.39	.21	.29				
10			0	.64	.27	.27	.15	.08				
11			0	.58	.27	.18	.12	.02				
12			0	.54	.26	.18	.11	0				
13			0	.55	.30	.64	.08	0				
14			0	.54	.33	.64	.08	0				
15			0	.52	.38	.98	.03	0				
16			0	.42	.35	3.4	.01	0				
17			0	.44	.37	2.0	0	0				
18			0	.46	.28	1.4	0	0				
19			0	.44	.26	1.1	0	0				
20			0	.41	.32	.98	0	0				
21			0	.39	.63	.74	0	0				
22			0	.39	.60	.64	0	0				
23			0	.35	.83	.54	0	0				
24			0	.38	.51	.54	0	0				
25			0	.37	.33	.85	0	0				
26			0	.31	.37	.64	0	0				
27			0	.31	.36	.54	0	0				
28			0	.30	.36	.46	0	0				
29			0	.29	---	.46	0	0				
30			1.6	.27	---	.46	0	0				
31		---	1.4	.29	---	.39	---	0	---			---
TOTAL	0	0	3.0	22.30	9.89	22.13	3.09	.61	0	0	0	0
MEAN	0	0	.097	.72	.35	.71	.10	.020	0	0	0	0
MAX	0	0	1.6	4.2	.83	3.4	.33	.29	0	0	0	0
MIN	0	0	0	.27	.25	.18	0	0	0	0	0	0
AC-FT	0	0	6.0	44	20	44	6.1	1.2	0	0	0	0

CAL YR 1976 TOTAL 75.53 MEAN .21 MAX 2.8 MIN 0 AC-FT 150
WTR YR 1977 TOTAL 61.02 MEAN .17 MAX 4.2 MIN 0 AC-FT 121

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.
WATER TEMPERATURES: Water years 1972 to current year.
SEDIMENT RECORDS: Water years 1972 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1971 to current year.
SEDIMENT RECORDS: October 1971 to current year.

REMARKS.--Sediment table omitted for period of no flow July 1 to Sept. 30. Zero bedload discharge observed at flows less than 2.0 ft^3/s (0.057 m^3/s).

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Minimum recorded, 2.0°C Dec. 11, 14, 1972, Jan. 7, 1973.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,400 mg/L Mar. 1, 1974; minimum daily mean, no flow for many days each year.
SEDIMENT DISCHARGE: Maximum daily, 1,860 tons (1,690 tonnes) Mar. 1, 1974; minimum daily, 0 tons (0 tonnes) on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 59 mg/L Jan. 3; minimum daily mean, no flow for many days.
SEDIMENT DISCHARGE: Maximum daily, 0.86 ton (0.78 tonne) Jan. 3; minimum daily, 0 tons (0 tonnes) on many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					8.0	---	---					
2					---	---	---					
3					5.0	8.0	---					
4					---	---	---					
5					---	---	---					
6					---	---	---					
7					---	---	11.0					
8					---	---	---					
9					---	---	---					
10					---	7.0	---					
11					7.0	---	---					
12					---	---	---					
13					---	---	---					
14					---	---	---					
15					---	---	11.0					
16					---	8.0	---					
17					---	---	---					
18					7.0	7.0	---					
19					---	---	---					
20					---	---	---					
21					---	---	---					
22					---	---	---					
23					---	---	---					
24					8.0	10.0	---					
25					---	---	---					
26					---	---	---					
27					---	---	---					
28					11.5	---	---					
29					---	---	---					
30					---	10.0	---					
31					---	13.0	---					
MONTH					---	---	---					

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

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							0	0	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							0	0	0
22							0	0	0
23							0	0	0
24							0	0	0
25							0	0	0
26							0	0	0
27							0	0	0
28							0	0	0
29							0	0	0
30							1.6	23	.15
31							1.4	11	.05
TOTAL	0	0	0	0	0	0	3.00	---	.20

	JANUARY			FEBRUARY			MARCH		
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	.67	3	.01	.30	4	0	.46	3	0
2	2.3	34	.72	.27	3	0	.54	5	.01
3	4.2	59	.86	.27	3	0	.54	10	.01
4	1.7	12	.06	.27	3	0	.54	5	.01
5	1.2	5	.02	.25	3	0	.46	3	0
6	.96	4	.01	.26	3	0	.39	3	0
7	.77	4	.01	.27	3	0	.39	3	0
8	.67	4	.01	.30	3	0	.39	3	0
9	.64	4	.01	.32	3	0	.39	10	.01
10	.64	4	.01	.27	3	0	.27	14	.01
11	.58	4	.01	.27	3	0	.18	10	0
12	.54	4	.01	.26	3	0	.18	4	0
13	.55	4	.01	.30	3	0	.64	6	.01
14	.54	4	.01	.33	3	0	.64	5	.01
15	.52	4	.01	.38	3	0	.98	12	.06
16	.42	4	0	.35	3	0	3.4	26	.24
17	.44	4	0	.37	3	0	2.0	16	.09
18	.46	4	0	.28	3	0	1.4	15	.06
19	.44	4	0	.26	3	0	1.1	14	.04
20	.41	4	0	.32	3	0	.98	13	.03
21	.39	4	0	.63	3	.01	.74	12	.02
22	.39	4	0	.60	5	.01	.64	11	.02
23	.35	4	0	.83	8	.02	.54	10	.01
24	.38	4	0	.51	5	.01	.54	10	.01
25	.37	4	0	.33	3	0	.85	10	.02
26	.31	4	0	.37	3	0	.64	8	.01
27	.31	4	0	.36	3	0	.54	6	.01
28	.30	4	0	.36	3	0	.46	4	0
29	.29	4	0	---	---	---	.46	3	0
30	.27	4	0	---	---	---	.46	3	0
31	.29	4	0	---	---	---	.39	3	0
TOTAL	22.30	---	1.77	9.89	---	.05	22.13	---	.69

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

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	.33	3		0	0				
2	.33	3		0	0				
3	.32	3		0	0				
4	.27	3		0	0				
5	.27	3		0	0				
6	.26	3		0	0				
7	.25	3		0	0				
8	.27	3		.22	6				
9	.21	3		.29	3				
10	.15	3		.08	3				
11	.12	3		.02	2				
12	.11	3		0	0				
13	.08	3		0	0				
14	.08	3		0	0				
15	.03	3		0	0				
16	.01	3		0	0				
17	0	0		0	0				
18	0	0		0	0				
19	0	0		0	0				
20	0	0		0	0				
21	0	0		0	0				
22	0	0		0	0				
23	0	0		0	0				
24	0	0		0	0				
25	0	0		0	0				
26	0	0		0	0				
27	0	0		0	0				
28	0	0		0	0				
29	0	0		0	0				
30	0	0		0	0				
31	---	---		0	0				
TOTAL	3.09	---	0	.61	---	0	0	0	0
YEAR	61.02		2.71						

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, at left end of dam on Llagas Creek, and 2.5 mi (4.0 km) west of Morgan Hill. DRAINAGE AREA, 19.3 mi^2 (50.0 km^2). 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 at mean sea level (levels by South Santa Clara Valley Water Conservation District).

Reservoir is formed by earth- and rockfill dam completed in 1955. Capacity, 8,090 acre-ft (9.97 hm^3) 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, 8,220 acre-ft (10.1 hm^3) Feb. 10, 1973, elevation, 525.5 ft (160.17 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, 145 acre-ft (179,000 m^3) Oct. 1, elevation, 467.03 ft (142.351 m); no contents Oct. 7 to Sept. 30.

11154020 UVAS RESERVOIR.--Lat 37°04'02", long 121°41'25", in Las Uvas Grant, Santa Clara County, at center of dam on Uvas Creek, and 4.8 mi (7.7 km) southwest of Morgan Hill. DRAINAGE AREA, 30.4 mi^2 (78.7 km^2). 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 at mean sea level (levels by South Santa Clara Valley Water Conservation District).

Reservoir is formed by earth- and rockfill dam completed in 1957. Capacity, 10,000 acre-ft (12.3 hm^3) 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 reacharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 11,030 acre-ft (13.6 hm^3) 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, 163 acre-ft (201,000 m^3) Apr. 4-6, elevation, 418.42 ft (127.534 m); no contents Oct. 1 to Jan. 4, July 8 to Sept. 30.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST), AT 0800, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Chesbro Reservoir	Uvas Reservoir
Sept. 30, 1976..	180	0
Oct. 31.....	0	0
Nov. 30.....	0	0
Dec. 31.....	0	0
Jan. 31, 1977...	0	69
Feb. 28.....	0	92
Mar. 31.....	0	158
Apr. 30.....	0	137
May 31.....	0	105
June 30.....,	0	17
July 31.....	0	0
Aug. 31.....	0	0
Sept. 30.....	0	0

11153700 PAJARO RIVER NEAR GILROY, CA

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

DRAINAGE AREA.--399 mi^2 (1,033 km^2).

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) above mean sea level (levels by Corps of Engineers). Prior to Nov. 17, 1971, at site 45 ft (14 m) downstream at same datum.

REMARKS.--Records good except those for period of no gage-height record Sept. 1-30, which are fair. Flow regulation by Pacheco Lake, capacity, 6,150 acre-ft (7.58 hm^3), Chesbro Reservoir (station 11153480) 21 mi (34 km) upstream and San Felipe Lake. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--18 years, 50.8 ft^3/s (1.439 m^3/s), 36,800 acre-ft/yr (45.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,900 ft^3/s (365 m^3/s) Jan. 25, 1969, gage height, 14.63 ft (4.459 m), from rating curve extended above 4,800 ft^3/s (136 m^3/s); no flow many days in 1961-62, 1971, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10 ft^3/s (0.28 m^3/s) Oct. 1, gage height, 3.89 ft (1.186 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	.53	0	.08	.01	.04	.01	.55	.08	.33	.55	.02
2	5.1	.50	0	.25	.01	.07	.01	.34	.26	.50	.23	.02
3	1.1	.38	0	2.2	.01	.05	.01	.26	.41	.45	.24	.02
4	.36	.24	0	.41	.02	.04	.01	.41	.16	.26	.40	.01
5	.30	.15	0	.22	.02	.04	.07	.61	.53	.37	1.0	.01
6	.26	.13	0	.22	.01	.03	.09	.59	.99	.54	.53	.04
7	.15	.13	0	.20	.01	.04	.08	.44	.98	.28	.46	.10
8	.11	.11	0	.12	.02	.05	.44	.45	.45	.24	.47	.20
9	.09	.08	0	.08	.02	.09	.20	.65	.38	.17	.85	.18
10	.06	.05	0	.08	.02	.11	.14	.41	.42	.35	.55	.25
11	.05	.12	0	.06	.02	.11	.11	.27	.22	.43	.58	.18
12	.04	.20	0	.06	.02	.09	.15	.21	.17	.50	.73	.36
13	.03	.31	0	.05	.01	.22	.11	.15	.27	.48	.78	.24
14	.02	.17	0	.04	.01	.28	.28	.19	.26	.62	.61	.30
15	.02	.13	0	.04	.01	.38	.55	.25	.17	1.4	.73	.26
16	.01	.10	0	.03	.01	.44	.36	.22	.19	.77	.46	.23
17	.01	.08	0	.03	.01	.36	.24	.18	.12	.65	1.6	.20
18	0	.08	0	.04	.01	.17	.31	.16	.30	.87	1.6	.18
19	0	.08	0	.03	.01	.08	.29	.13	.54	1.2	1.1	.20
20	0	.18	0	.03	.01	.05	.18	.13	.41	.66	.67	.19
21	0	.15	0	.04	.04	.03	.21	.15	.14	.39	.70	.16
22	.12	.08	0	.04	.07	.02	.16	.17	.19	.35	.79	.14
23	.39	.05	0	.03	.18	.01	.15	.16	.26	.33	.58	.12
24	.50	.21	0	.03	.16	.01	.20	.12	.37	.46	.50	.12
25	.59	.16	0	.03	.08	.01	.20	.09	.25	1.1	.71	.08
26	.54	.04	0	.02	.04	.01	.23	.06	.20	.72	.75	.12
27	.56	.02	0	.02	.04	.01	.36	.05	.22	.85	.67	.24
28	1.3	.01	.01	.02	.02	.01	.51	.07	.32	.76	.62	.22
29	1.6	.01	.01	.01	---	.01	.55	.13	.18	1.1	.22	.30
30	1.4	0	.09	.01	---	.01	.60	.17	.16	1.0	.06	.47
31	.97	---	.15	.01	---	.01	---	.10	---	.94	.03	---
TOTAL	24.58	4.48	.26	4.53	.90	2.88	6.81	7.87	9.60	19.07	19.77	5.16
MEAN	.79	.15	.008	.15	.032	.093	.23	.25	.32	.62	.64	.17
MAX	8.9	.53	.15	2.2	.18	.44	.60	.65	.99	1.4	1.6	.47
MIN	0	0	0	.01	.01	.01	.01	.05	.08	.17	.03	.01
AC-FT	49	8.9	.5	9.0	1.8	5.7	14	16	19	38	39	10

CAL YR 1976 TOTAL 856.63 MEAN 2.34 MAX 14 MIN 0 AC-FT 1700
WTR YR 1977 TOTAL 105.91 MEAN .29 MAX 8.9 MIN 0 AC-FT 210

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

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

DRAINAGE AREA.--21.0 mi^2 (54.4 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 486.47 ft (148.276 m) above mean sea level.

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

AVERAGE DISCHARGE.--16 years, 24.8 ft^3/s (0.702 m^3/s), 17,970 acre-ft/yr (22.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,580 ft^3/s (186 m^3/s) Oct. 13, 1962, gage height, 13.18 ft (4.017 m); no flow at times in 1961, 1964, 1976-77.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35 ft^3/s (0.99 m^3/s) Jan. 2, gage height, 3.88 ft (1.183 m), no peak above base of 800 ft^3/s (23 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.41	.32	2.4	1.0	1.2	1.2	.74	.40	.01		
2	.90	.39	.23	9.3	1.0	1.1	1.1	.76	.37	.01		
3	.65	.41	.67	16	1.0	1.0	1.1	.79	.33	0		
4	.48	.49	.66	5.8	1.0	.98	.94	.70	.27	0		
5	.41	.37	.66	3.3	1.0	.97	.79	.76	.26	0		
6	.38	.36	.63	2.8	.99	.94	.78	.69	.12	0		
7	.29	.36	.61	2.1	.99	.90	.95	.80	.19	0		
8	.27	.36	.59	1.8	1.1	.82	.97	1.3	.19	0		
9	.27	.36	.61	1.7	1.4	.85	.93	1.3	.22	0		
10	.29	.36	.61	1.6	1.2	.85	.89	1.1	.23	0		
11	.35	.56	.63	1.5	1.1	.80	.85	1.1	.23	0		
12	.27	2.2	.65	1.5	1.0	.81	.83	1.1	.22	0		
13	.29	1.2	.62	1.4	1.0	.95	.81	1.1	.23	0		
14	.32	1.4	.60	1.4	.99	1.2	.80	.96	.25	0		
15	.29	1.9	.61	1.3	.96	1.6	.82	.95	.24	0		
16	.32	1.1	.60	1.3	.95	17	.82	.80	.21	0		
17	.32	.89	.56	1.3	.93	5.4	.82	.87	.19	0		
18	.33	.70	.55	1.2	.92	3.1	.78	.87	.19	0		
19	.36	.70	.54	1.1	.89	2.2	.75	.85	.21	0		
20	.38	.70	.54	1.1	.88	1.9	.72	.73	.18	0		
21	.39	.68	.56	1.1	1.9	1.7	.74	.66	.15	0		
22	.40	.65	.62	1.1	2.1	1.5	.70	.65	.12	0		
23	.43	.65	.62	1.0	1.8	1.4	.76	.69	.09	0		
24	.49	.65	.58	1.0	1.8	1.9	.79	.69	.07	0		
25	.47	.64	.60	1.0	1.4	2.8	.78	.68	.07	0		
26	.46	.60	.59	1.0	1.3	2.0	.78	.62	.06	0		
27	.41	.60	.60	1.0	1.2	1.6	.69	.55	.04	0		
28	.38	.59	.67	1.0	1.2	1.5	.73	.59	.02	0		
29	.42	.59	.78	.99	---	1.2	.63	.54	.02	0		
30	.43	.60	8.9	.99	---	1.2	.60	.43	.01	0		
31	.44	---	7.4	.98	---	1.2	---	.44	---	0		---
TOTAL	13.19	21.47	33.41	71.06	33.00	62.57	24.85	24.81	5.38	.02	0	0
MEAN	.43	.72	1.08	2.29	1.18	2.02	.83	.80	.18	.0006	0	0
MAX	1.3	2.2	8.9	16	2.1	17	1.2	1.3	.40	.01	0	0
MIN	.27	.36	.23	.98	.88	.80	.60	.43	.01	0	0	0
AC-FT	26	43	66	141	65	124	49	49	11	.04	0	0

CAL YR 1976 TOTAL 356.69 MEAN .97 MAX 17 MIN 0 AC-FT 707
WTR YR 1977 TOTAL 289.76 MEAN .79 MAX 17 MIN 0 AC-FT 575

11154100 BODFISH CREEK NEAR GILROY, CA

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

DRAINAGE AREA.--7.40 mi^2 (19.17 km^2).

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.--18 years, 3.44 ft^3/s (0.097 m^3/s), 2,490 acre-ft/yr (3.07 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.3 ft^3/s (0.093 m^3/s) Mar. 15, gage height, 2.61 ft (0.796 m), no peak above base of 150 ft^3/s (4.2 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	.03	.07	.29	.10	.16	.11	.10	.02			
2	.39	.03	.06	.80	.10	.14	.09	.08	.02			
3	.21	.03	.07	1.0	.10	.14	.07	.09	.02			
4	.09	.02	.08	.41	.10	.12	.07	.09	.01			
5	.07	.03	.08	.30	.10	.11	.06	.08	.01			
6	.06	.03	.08	.30	.10	.10	.06	.10	.01			
7	.05	.02	.08	.25	.10	.10	.06	.14	.01			
8	.05	.02	.08	.22	.14	.10	.06	.14	.02			
9	.05	.02	.08	.20	.19	.14	.06	.13	.05			
10	.05	.02	.08	.18	.14	.15	.06	.10	.04			
11	.05	.10	.08	.18	.12	.11	.06	.10	.03			
12	.04	.24	.08	.18	.12	.11	.06	.09	.03			
13	.04	.12	.08	.18	.11	.16	.05	.08	.03			
14	.04	.46	.08	.17	.10	.19	.04	.06	.03			
15	.04	.28	.07	.16	.10	.34	.04	.06	.02			
16	.03	.19	.07	.15	.10	1.2	.04	.06	.02			
17	.02	.15	.07	.15	.10	.50	.04	.06	.02			
18	.02	.12	.06	.13	.10	.34	.04	.06	.02			
19	.03	.10	.07	.12	.09	.27	.03	.06	.02			
20	.02	.10	.07	.12	.10	.25	.03	.05	.02			
21	.02	.10	.07	.12	.49	.23	.04	.04	.01			
22	.03	.10	.07	.12	.30	.21	.04	.05	0			
23	.03	.10	.07	.12	.42	.22	.04	.05	0			
24	.04	.10	.07	.12	.30	.38	.04	.05	0			
25	.04	.10	.07	.11	.22	.31	.05	.05	0			
26	.03	.10	.07	.10	.20	.23	.05	.04	0			
27	.03	.08	.06	.10	.18	.21	.05	.04	0			
28	.03	.07	.07	.10	.18	.21	.06	.03	0			
29	.03	.07	.07	.10	---	.20	.07	.03	0			
30	.03	.07	.65	.10	---	.19	.07	.03	0			
31	.04	---	.70	.10	---	.15	---	.02	---			---
TOTAL	2.05	3.00	3.46	6.68	4.50	7.27	1.64	2.16	.46	0	0	0
MEAN	.066	.10	.11	.22	.16	.23	.055	.070	.015	0	0	0
MAX	.39	.46	.70	1.0	.49	1.2	.11	.14	.05	0	0	0
MIN	.02	.02	.06	.10	.09	.10	.03	.02	0	0	0	0
AC-FT	4.1	6.0	6.9	13	8.9	14	3.3	4.3	.9	0	0	0

CAL YR 1976 TOTAL 49.37 MEAN .13 MAX 4.6 MIN 0 AC-FT 98
WTR YR 1977 TOTAL 31.22 MEAN .086 MAX 1.2 MIN 0 AC-FT 62

11154200 UVAS CREEK NEAR GILROY, CA

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

DRAINAGE AREA.--71.2 mi^2 (184.4 km^2).

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

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

REMARKS.--No flow since Oct. 17, 1975. Flow regulated by Uvas Reservoir (station 11154020) 10 mi (16 km) upstream. Diversion above station for irrigation.

AVERAGE DISCHARGE.--18 years, 33.6 ft^3/s (0.952 m^3/s), 24,340 acre-ft/yr (30.0 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--No flow during year.

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, on left bank 0.9 mi (1.4 km) northwest of Willow Creek School, 1.3 mi (2.1 km) downstream from Willow Creek, and 10 mi (16 km) northwest of San Benito.

DRAINAGE AREA.--249 mi^2 (645 km^2).

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 925.52 ft (282.098 m) above mean sea level, unadjusted. 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 except those for period of no gage-height record Aug. 24 to Sept. 30, which are poor. Flow regulated by Hernandez Reservoir 40 mi (64 km) upstream beginning in December 1961, capacity, 18,700 acre-ft (23.1 hm^3). Small diversion above station for irrigation.

AVERAGE DISCHARGE.--38 years, 23.2 ft^3/s (0.657 m^3/s), 16,810 acre-ft/yr (20.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,210 ft^3/s (232 m^3/s) Apr. 3, 1958, gage height, 8.35 ft (2.545 m), site and datum then in use, from rating curve extended above 600 ft^3/s (17.0 m^3/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, 51 ft^3/s (1.44 m^3/s) Jan. 3, gage height, 4.25 ft (1.295 m); minimum daily, 0.05 ft^3/s (0.001 m^3/s) Apr. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	.29	.19	3.9	.43	.18	.19	1.6	.20	.16	.10	.08
2	12	.30	.19	3.4	.40	.18	.18	.84	.21	.18	.10	.09
3	6.2	.31	.19	23	.40	.21	.20	.59	.20	.16	.11	.08
4	3.3	.32	.19	15	.37	.19	.19	.46	.19	.16	.13	.08
5	2.2	.32	.21	4.2	.36	.20	.21	.35	.21	.16	.13	.08
6	1.5	.28	.21	3.1	.33	.21	.24	.33	.20	.16	.14	.08
7	1.0	.29	.19	2.4	.32	.21	.27	.41	.20	.16	.15	.08
8	.75	.29	.19	2.1	.29	.25	.31	.94	.25	.16	.14	.08
9	.64	.29	.19	2.0	.30	.26	.33	2.7	.33	.16	.13	.08
10	.53	.27	.19	1.9	.29	.26	.37	2.8	.32	.16	.12	.09
11	.43	.31	.19	1.8	.28	.29	.40	2.3	.28	.15	.10	.10
12	.36	.30	.18	1.7	.28	.30	.42	3.3	.27	.16	.10	.11
13	.25	.25	.18	1.5	.25	.34	.43	2.2	.28	.14	.10	.10
14	.22	.24	.18	1.5	.22	.34	.47	2.0	.26	.14	.10	.10
15	.24	.22	.17	1.4	.21	.35	.51	1.5	.25	.14	.10	.10
16	.25	.21	.16	1.4	.23	1.4	.54	1.0	.25	.13	.10	.10
17	.26	.20	.16	1.3	.22	.42	.60	.86	.23	.13	.11	.10
18	.23	.20	.16	1.2	.18	.32	.64	.72	.21	.13	.10	.10
19	.21	.19	.16	1.1	.19	.10	.67	.63	.22	.14	.10	.11
20	.21	.19	.16	.99	.19	.06	.73	.48	.21	.14	.10	.13
21	.21	.19	.16	.82	.19	.06	.75	.35	.19	.14	.10	.11
22	.23	.19	.16	.78	.17	.06	1.4	.32	.14	.13	.10	.10
23	.23	.19	.16	.76	.18	.07	1.6	.32	.15	.13	.10	.09
24	.25	.19	.16	.67	.18	.09	1.7	.31	.14	.13	.10	.09
25	.26	.20	.15	.61	.18	.09	1.3	.30	.14	.13	.09	.10
26	.27	.19	.15	.61	.17	.10	.32	.32	.15	.13	.09	.10
27	.26	.19	.14	.56	.17	.10	.05	.27	.15	.13	.09	.10
28	.22	.20	.14	.51	.19	.10	.26	.24	.15	.13	.09	.10
29	.26	.20	.15	.47	---	.13	2.2	.23	.16	.13	.09	.10
30	.28	.19	1.5	.47	---	.13	2.2	.21	.16	.13	.08	.10
31	.29	---	5.9	.46	---	.16	---	.19	---	.13	.08	---
TOTAL	48.54	7.20	12.41	81.61	7.17	7.16	19.68	29.07	6.30	4.46	3.27	2.86
MEAN	1.57	.24	.40	2.63	.26	.23	.66	.94	.21	.14	.11	.095
MAX	15	.32	5.9	23	.43	1.4	2.2	3.3	.33	.18	.15	.13
MIN	.21	.19	.14	.46	.17	.06	.05	.19	.14	.13	.08	.08
AC-FT	96	14	25	162	14	14	39	58	12	8.8	6.5	5.7

CAL YR 1976 TOTAL 826.09 MEAN 2.26 MAX 49 MIN .13 AC-FT 1640
WTR YR 1977 TOTAL 229.73 MEAN .63 MAX 23 MIN .05 AC-FT 456

11156500 SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1959-67, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 15...	1100	.10	1700	8.1	25.0	12.2	620	190	52

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 15...	120	170	37	3.0	3.4	520	0	430	350

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 15...	130	.4	11	1090	1.48	.29	.01	1400	10

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, on right bank 3.5 mi (5.6 km) southeast of Tres Pinos, and 6.2 mi (10.0 km) upstream from mouth.

DRAINAGE AREA.--206 mi^2 (534 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1715: Drainage area.

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

REMARKS.--Records fair except those for period of no gage-height record May 20 to June 28, which are 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).--38 years, 13.0 ft^3/s (0.368 m^3/s), 9,420 acre-ft/yr (11.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,060 ft^3/s (228 m^3/s) Apr. 4, 1941, gage height, 7.75 ft (2.362 m), from rating curve extended above 3,500 ft^3/s (99.1 m^3/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, 90 ft^3/s (2.55 m^3/s) Oct. 1, gage height, 4.94 ft (1.506 m), from rating curve extended above 17 ft^3/s (0.48 m^3/s) on basis of slope-area measurement at gage height 9.49 ft (2.893 m), no peak above base of 450 ft^3/s (13 m^3/s); minimum daily, 0.24 ft^3/s (0.007 m^3/s) July 21, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	1.5	1.2	1.4	1.2	.99	1.1	.93	.56	.77	.36	.37
2	15	1.5	1.2	1.4	1.2	.96	1.1	.89	.60	.73	.36	.38
3	4.8	1.4	1.2	1.4	1.2	.98	1.1	.90	.60	.66	.36	.38
4	4.0	1.4	1.2	1.4	1.3	.98	1.1	.89	.55	.60	.43	.33
5	3.6	1.4	1.2	1.4	1.3	.96	1.1	.92	.60	.65	.44	.33
6	3.1	1.4	1.2	1.4	1.3	1.0	1.1	.92	.58	.59	.51	.32
7	2.8	1.4	1.2	1.4	1.2	1.0	1.2	.96	.58	.59	.48	.34
8	2.6	1.3	1.2	1.4	1.1	.98	1.2	1.1	.70	.56	.47	.40
9	2.2	1.2	1.2	1.5	1.1	1.0	1.2	1.0	.82	.53	.54	.43
10	2.0	1.2	1.3	1.5	1.1	1.0	1.2	.96	.94	.49	.54	.43
11	1.7	1.3	1.3	1.4	1.1	1.1	1.2	1.1	.85	.42	.50	.43
12	1.5	1.2	1.3	1.4	1.1	1.1	1.2	1.0	.78	.36	.52	.48
13	1.3	1.2	1.2	1.4	1.1	1.1	1.2	1.0	.80	.34	.58	.47
14	1.3	1.2	1.2	1.4	1.1	1.1	1.2	1.0	.76	.34	.58	.44
15	1.3	1.2	1.2	1.4	1.1	1.1	1.1	1.0	.72	.33	.56	.46
16	1.4	1.2	1.2	1.4	.98	1.2	1.1	.98	.72	.26	.56	.47
17	1.4	1.2	1.2	1.4	.99	1.1	1.1	1.0	.67	.29	.50	.47
18	1.4	1.2	1.2	1.4	1.0	1.1	1.1	1.0	.61	.32	.48	.44
19	1.4	1.2	1.2	1.5	1.1	.96	1.1	1.0	.64	.26	.47	.52
20	1.4	1.2	1.2	1.5	1.1	.96	1.0	1.1	.60	.25	.48	.49
21	1.3	1.2	1.2	1.4	1.1	.95	1.0	.95	.55	.24	.47	.43
22	1.4	1.2	1.3	1.4	1.1	.94	1.0	.93	.48	.27	.47	.44
23	1.4	1.2	1.3	1.4	1.1	.96	1.0	.92	.42	.30	.43	.42
24	1.4	1.2	1.2	1.4	1.1	1.1	.98	.90	.47	.27	.44	.43
25	1.4	1.2	1.2	1.4	1.0	1.0	.94	.86	.51	.25	.42	.42
26	1.4	1.2	1.2	1.4	1.0	1.0	.93	.90	.57	.24	.41	.44
27	1.4	1.2	1.2	1.4	.99	1.0	.92	.82	.62	.30	.40	.44
28	1.4	1.2	1.2	1.4	.97	1.1	.91	.71	.72	.31	.38	.43
29	1.4	1.2	1.2	1.2	---	1.1	.92	.66	.79	.31	.35	.45
30	1.5	1.2	1.5	1.2	---	1.1	.92	.62	.71	.29	.34	.43
31	1.5	---	1.4	1.2	---	1.1	---	.58	---	.35	.36	---
TOTAL	108.7	37.8	38.2	43.2	31.03	32.02	32.22	28.50	19.52	12.47	14.19	12.71
MEAN	3.51	1.26	1.23	1.39	1.11	1.03	1.07	.92	.65	.40	.46	.42
MAX	39	1.5	1.5	1.5	1.3	1.2	1.2	1.1	.94	.77	.58	.52
MIN	1.3	1.2	1.2	1.2	.97	.94	.91	.58	.42	.24	.34	.32
AC-FT	216	75	76	86	62	64	64	57	39	25	28	25

CAL YR 1976 TOTAL 774.40 MEAN 2.12 MAX 50 MIN 1.1 AC-FT 1540
WTR YR 1977 TOTAL 410.56 MEAN 1.12 MAX 39 MIN .24 AC-FT 814

11157500 TRES PINOS CREEK NEAR TRES PINOS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 15...	1300	.54	1130	7.8	24.0	9.6	400	100	77

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 15...	50	110	37	2.4	2.7	360	0	300	200

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 15...	74	.3	28	724	.98	1.06	.76	850	20

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, on left bank 1,500 ft (457 m) downstream from Bird Creek, 0.9 mi (1.4 km) downstream from Tres Pinos Creek, 2.7 mi (4.3 km) west of Tres Pinos, and 4.8 mi (7.7 km) southeast of Hollister.

DRAINAGE AREA.--586 mi^2 (1,518 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 359.3 ft (109.51 m) above mean sea level (levels by Corps of Engineers).

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

AVERAGE DISCHARGE.--28 years, 27.5 ft^3/s (0.779 m^3/s), 19,920 acre-ft/yr (24.6 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 47 ft^3/s (1.33 m^3/s) Oct. 2, gage height, 4.99 ft (1.521 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	.01	.01	.01	.04	.03	.01	0				
2	16	.01	.01	.09	.04	.03	.01	0				
3	.06	0	.01	.28	.04	.04	.01	0				
4	.03	0	.01	.03	.03	.05	.01	0				
5	.03	0	.01	.02	.03	.05	.01	0				
6	.02	0	.01	.03	.03	.03	0	0				
7	.01	0	.01	.69	.03	.03	0	0				
8	.01	0	.01	.81	.03	.04	.01	.01				
9	.01	0	.01	.51	.02	.04	0	.01				
10	.01	.01	.01	.38	.02	.03	0	.01				
11	0	.01	.01	.33	.01	.03	0	.01				
12	.01	.02	.01	.07	.01	.04	.01	.01				
13	0	.02	.01	.03	.01	.06	.01	.01				
14	0	.01	.01	.02	.01	.04	.01	.01				
15	0	.01	.01	.02	.01	.04	.01	.01				
16	0	.01	.01	.02	.01	.10	.01	0				
17	0	.01	.01	.02	.01	.04	0	0				
18	0	.01	.01	.02	.01	.04	0	0				
19	0	.01	.01	.03	.01	.04	0	0				
20	0	0	.01	.02	.01	.03	0	0				
21	0	0	.01	.02	.03	.03	0	0				
22	0	0	.01	.02	.02	.03	0	0				
23	0	0	.01	.02	.04	.02	0	0				
24	0	.01	.01	.03	.02	.04	0	0				
25	0	.01	.01	.03	.01	.04	0	0				
26	0	.01	.01	.03	.01	.02	0	0				
27	0	.01	.01	.04	.01	.01	0	0				
28	0	.01	.01	.04	.02	.01	0	0				
29	0	.01	.01	.03	---	.01	0	0				
30	.01	.01	.10	.03	---	.01	0	0				
31	.01	---	.08	.03	---	.01	---	0	---			---
TOTAL	33.21	.21	.47	3.75	.57	1.06	.11	.08	0	0	0	0
MEAN	1.07	.007	.015	.12	.020	.034	.004	.003	0	0	0	0
MAX	17	.02	.10	.81	.04	.10	.01	.01	0	0	0	0
MIN	0	0	.01	.01	.01	.01	0	0	0	0	0	0
AC-FT	66	.4	.9	7.4	1.1	2.1	.2	.2	0	0	0	0

CAL YR 1976 TOTAL 598.06 MEAN 1.63 MAX 18 MIN 0 AC-FT 1190
WTR YR 1977 TOTAL 39.46 MEAN .11 MAX 17 MIN 0 AC-FT 78

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, on right bank at downstream side of bridge on State Highway 156, and 1.6 mi (2.6 km) west of Hollister.

DRAINAGE AREA.--607 mi^2 (1,572 km^2).

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

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

REMARKS.--No daily flow since Apr. 8, 1976. Flow regulated by Hernandez Reservoir 73 mi (117 km) upstream, capacity, 18,700 acre-ft (23.1 hm^3). Some small diversions above station for irrigation. Figures of discharge for calendar year 1976 are as follows: Total, 12.43 ft^3/s (0.35 m^3/s); mean, 0.034 ft^3/s (0.001 m^3/s); maximum, 4.4 ft^3/s (0.12 m^3/s); minimum, zero ft^3/s (zero m^3/s); total, 25 acre-ft (30,800 m^3).

AVERAGE DISCHARGE.--7 years, 15.2 ft^3/s (0.430 m^3/s), 11,010 acre-ft/yr (13.6 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.01 ft^3/s (<0.001 m^3/s) Oct. 1, gage height, 2.13 ft (0.649 m); no flow for entire year except for part of Oct. 1.

11158900 PESCADERO CREEK NEAR CHITTENDEN, CA

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

DRAINAGE AREA.--10.2 mi^2 (26.4 km^2).

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

GAGE.--Water-stage recorder and rain gage. Datum of gage is 124.13 ft (37.835 m) above mean sea level.

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

AVERAGE DISCHARGE.--7 years, 2.88 ft^3/s (0.082 m^3/s), 2,090 acre-ft/yr (2.58 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 326 ft^3/s (9.23 m^3/s) Nov. 14, 1972, gage height, 7.08 ft (2.158 m), from rating curve extended above 150 ft^3/s (4.25 m^3/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.2 ft^3/s (0.091 m^3/s) Jan. 2, gage height, 3.90 ft (1.189 m), no peak above base of 70 ft^3/s (2.0 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.06	.29	.18	.27	.08	.19				
2		0	.07	.70	.19	.27	.09	.14				
3		0	.09	1.1	.14	.27	.09	.10				
4		0	.11	.42	.14	.25	.15	.09				
5		0	.11	.32	.14	.18	.17	.09				
6		0	.10	.36	.16	.18	.17	.10				
7		0	.08	.28	.17	.18	.18	.18				
8		0	.10	.22	.22	.19	.18	.44				
9		0	.11	.22	.23	.25	.18	.51				
10		0	.11	.22	.18	.24	.18	.29				
11		0	.11	.18	.18	.21	.18	.23				
12		0	.11	.18	.18	.20	.17	.27				
13		0	.12	.18	.18	.25	.18	.25				
14		0	.12	.15	.18	.22	.17	.21				
15		0	.11	.14	.18	.26	.16	.20				
16		0	.11	.14	.18	.60	.14	.17				
17		0	.13	.14	.18	.24	.14	.16				
18		0	.13	.15	.18	.16	.13	.16				
19		0	.11	.18	.22	.14	.12	.19				
20		0	.12	.18	.20	.14	.11	.16				
21		0	.13	.18	.29	.14	.11	.15				
22		0	.14	.18	.33	.14	.11	.18				
23		0	.16	.18	.37	.15	.10	.21				
24		0	.14	.18	.35	.19	.10	.17				
25		.02	.11	.18	.26	.15	.12	.13				
26		.03	.13	.18	.25	.11	.13	.12				
27		.03	.14	.18	.27	.11	.10	.10				
28		.03	.14	.18	.27	.11	.10	.06				
29		.04	.16	.18	---	.11	.10	.03				
30		.05	.79	.18	---	.11	.11	.01				
31		---	.82	.18	---	.11	---	0	---			---
TOTAL	0	.20	4.97	7.73	6.00	6.13	4.05	5.29	0	0	0	0
MEAN	0	.007	.16	.25	.21	.20	.14	.17	0	0	0	0
MAX	0	.05	.82	1.1	.37	.60	.18	.51	0	0	0	0
MIN	0	0	.06	.14	.14	.11	.08	0	0	0	0	0
AC-FT	0	.4	9.9	15	12	12	8.0	10	0	0	0	0
(†)	0	1.02	1.27	1.36	.79	.92	.09	1.36	.11	0	0	.24

CAL YR 1976 TOTAL 52.14 MEAN .14 MAX 1.6 MIN 0 AC-FT 103
WTR YR 1977 TOTAL 34.37 MEAN .094 MAX 1.1 MIN 0 AC-FT 68

† Precipitation, in inches.

11159000 PAJARO RIVER AT CHITTENDEN, CA

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

DRAINAGE AREA.--1,186 mi^2 (3,072 km^2).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records fair. Flow regulated by Hernandez Reservoir, capacity, 18,700 acre-ft (23.1 hm^3), Pacheco Lake, capacity, 6,150 acre-ft (7.58 hm^3), Chesbro Reservoir (station 11153480), Uvas Reservoir (station 11154020), and San Felipe Lake. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--38 years, 139 ft^3/s (3.936 m), 100,700 acre-ft/yr (124 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,000 ft^3/s (680 m^3/s) Dec. 24, 1955, gage height, 32.46 ft (9.894 m), from rating curve extended above 8,300 ft^3/s (235 m^3/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, 16 ft^3/s (0.45 m^3/s) Oct. 2, gage height, 2.40 ft (0.732 m); minimum daily, 0.09 ft^3/s (0.003 m^3/s) Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	.87	.95	3.0	1.1	1.5	1.1	.36	.39	.89	.68	.42
2	15	.95	.90	2.6	1.1	1.8	1.1	.31	.42	.89	.73	.38
3	9.1	1.1	.90	4.8	1.1	2.1	1.1	.29	.41	.61	.67	.26
4	4.4	1.4	.90	5.2	1.1	2.3	1.2	.33	.43	.39	.54	.20
5	2.4	1.2	.86	3.4	1.1	2.5	1.2	.30	.61	.34	.39	.17
6	1.5	.95	.84	2.6	1.2	2.5	1.2	.28	1.0	.28	.44	.18
7	1.2	.86	.83	2.3	1.2	2.6	1.8	.37	.80	.24	.52	.30
8	1.1	.93	.83	2.0	1.2	1.7	1.6	.61	.58	.25	.64	.47
9	1.1	.99	.82	1.7	1.2	1.4	1.6	1.8	.40	.29	.73	.49
10	1.0	.93	.81	1.5	1.3	1.7	1.7	2.3	.43	.37	.74	.44
11	.98	1.0	.81	1.3	1.3	1.6	1.6	1.9	.28	.47	.81	.48
12	.93	1.1	.82	1.3	1.3	1.3	1.4	1.2	.18	.50	.78	.52
13	.85	1.9	.80	1.3	1.2	1.2	1.1	1.1	.74	.43	.67	.45
14	.79	2.1	.79	1.3	1.2	1.0	1.1	.99	.64	.34	.64	.39
15	.77	1.9	.78	1.2	1.2	.93	.93	.87	.50	.29	.84	.30
16	.75	1.7	.80	1.2	1.1	1.9	.94	.85	.52	.32	.88	.26
17	.74	1.3	.80	1.1	1.1	2.0	1.1	.83	.37	1.8	.80	.24
18	.73	1.1	.77	1.2	1.1	1.7	1.6	.77	.70	.87	.53	.19
19	.72	1.0	.77	1.2	1.0	1.6	1.2	.77	1.5	.99	.43	.23
20	.71	.96	.78	1.2	1.1	1.3	.79	.74	.96	1.1	.87	.24
21	.69	.94	.80	1.2	1.5	1.1	.63	.67	.40	.57	1.0	.20
22	.67	.94	.83	1.2	1.6	.91	.45	.66	.50	.39	.91	.15
23	.68	.95	.80	1.2	2.2	.85	.38	.69	.78	.30	.86	.14
24	.69	1.0	.78	1.2	3.1	.95	.34	.66	1.0	.27	.81	.12
25	.73	2.9	.78	1.2	4.0	1.2	.34	.59	.80	.24	.71	.10
26	.75	1.9	.79	1.2	2.6	1.2	.33	.59	.62	.22	.64	.09
27	.76	1.2	.79	1.2	1.7	1.1	.32	.58	.97	.28	.51	.14
28	.76	1.1	.83	1.2	1.5	1.1	.30	.56	.90	.30	.45	.12
29	.77	.95	.89	1.1	---	1.1	.29	.52	.99	.23	.55	.12
30	.78	.94	1.4	1.1	---	1.2	.30	.48	1.0	.23	.64	.10
31	.81	---	2.5	1.1	---	1.1	---	.43	---	.39	.57	---
TOTAL	63.86	37.06	27.75	54.3	41.4	46.44	29.04	23.40	19.82	15.08	20.98	7.89
MEAN	2.06	1.24	.90	1.75	1.48	1.50	.97	.75	.66	.49	.68	.26
MAX	15	2.9	2.5	5.2	4.0	2.6	1.8	2.3	1.5	1.8	1.0	.52
MIN	.67	.86	.77	1.1	1.0	.85	.29	.28	.18	.22	.39	.09
AC-FT	127	74	55	108	82	92	58	46	39	30	42	16

CAL YR 1976	TOTAL	1494.36	MEAN 4.08	MAX 32	MIN .03	AC-FT	2960	
WTR YR 1977	TOTAL	387.02	MEAN 1.06	MAX 15	MIN .09	AC-FT	768	

11159000 PAJARO RIVER AT CHITTENDEN, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
Chemical analyses: Water years 1952 to current year.

COOPERATION.--Records were furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
DEC 14...	1000	.71	2310	8.2	5.0	13.9	580	120	33	120
JAN 26...	1330	1.2	3150	8.1	10.5	16.4	740	300	82	130
MAY 24...	1145	.65	2730	7.7	17.5	7.5	670	170	110	95

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
DEC 14...	360	6.5	560	0	460	290	460	1450	1.97
JAN 26...	470	7.5	510	12	440	500	620	2120	2.88
MAY 24...	470	7.9	600	0	490	340	600	2000	2.72

DATE	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO, PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)
DEC 14...	2.78	--	--	--	--	--	--	--	--
JAN 26...	6.87	.34	--	.06	.50	.14	.04	.12	2000
MAY 24...	3.51	.02	.00	.00	.30	.09	.08	.25	2600

11159200 CORRALITOS CREEK AT FREEDOM, CA

LOCATION.--Lat 36°56'22", long 121°46'10", in Los Corralitos Grant, Santa Cruz County, on right bank just upstream from Green Valley Road bridge, 0.2 mi (0.3 km) north of Freedom, and 2.3 mi (3.7 km) north of Watsonville.

DRAINAGE AREA.--27.8 mi^2 (72.0 km^2).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records fair. No regulation; Watsonville Water Works can divert up to 8.0 ft^3/s (0.23 m^3/s) daily above station for municipal supply, domestic use, and irrigation.

AVERAGE DISCHARGE.--21 years, 13.5 ft^3/s (0.382 m^3/s), 9,780 acre-ft/yr (12.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,680 (75.9 m^3/s) Apr. 2, 1958, gage height, 12.59 ft (3.837 m); no flow at times.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 67 ft^3/s (1.90 m^3/s) Jan. 2, gage height, 2.91 ft (0.887 m), no peak above base of 600 ft^3/s (17 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	0	0	.33	0	0						0
2	0	0	0	8.5	0	0						0
3	0	0	0	17	0	0						0
4	0	0	0	2.4	0	0						0
5	0	0	0	.52	0	0						0
6	0	0	0	.32	0	0						0
7	0	0	0	.12	0	0						0
8	0	0	0	.08	0	0						0
9	0	0	0	0	0	0						0
10	0	0	0	0	0	0						0
11	0	0	0	0	0	0						0
12	0	0	0	0	0	0						0
13	0	0	0	0	0	0						0
14	0	.49	0	0	0	0						0
15	0	.04	0	0	0	.94						0
16	0	0	0	0	0	8.4						0
17	0	0	0	0	0	3.3						0
18	0	0	0	0	0	1.4						0
19	0	0	0	0	0	.09						.09
20	0	0	0	0	0	0						0
21	0	0	0	0	.43	0						0
22	0	0	0	0	0	0						0
23	0	0	0	0	1.0	0						0
24	0	0	0	0	.71	.22						0
25	0	0	0	0	.13	.39						0
26	0	0	0	0	0	.11						0
27	0	0	0	0	0	0						0
28	0	0	0	0	0	0						0
29	0	0	0	0	---	0						0
30	0	0	5.4	0	---	0						0
31	0	---	9.2	0	---	0	---		---			---
TOTAL	.19	.53	14.6	29.27	2.27	14.85	0	0	0	0	0	.09
MEAN	.006	.018	.47	.94	.081	.48	0	0	0	0	0	.003
MAX	.19	.49	9.2	17	1.0	8.4	0	0	0	0	0	.09
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.4	1.1	29	58	4.5	29	0	0	0	0	0	.2

CAL YR 1976 TOTAL 216.02 MEAN .59 MAX 33 MIN 0 AC-FT 428
WTR YR 1977 TOTAL 61.80 MEAN .17 MAX 17 MIN 0 AC-FT 123

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SEDIMENT RECORDS: Water year 1976-77 (discontinued).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
MAR									
16...	1630	11.0	7.1	28	.54	98	99	100	--
17...	1040	9.5	3.3	52	.46	26	36	86	100

11159690 APTOS CREEK NEAR APTOS, CA

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

DRAINAGE AREA.--10.2 mi^2 (26.4 km^2).

WATER-DISCHARGE RECORDS

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 fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--6 years, 6.51 ft^3/s (0.184 m^3/s), 4,720 acre-ft/yr (5.82 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft^3/s (0.37 m^3/s) Dec. 30, gage height, 1.13 ft (0.344 m), no peak above base of 100 ft^3/s (2.8 m^3/s); minimum daily, 0.45 ft^3/s (0.013 m^3/s) Aug. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	.70	.76	2.0	.86	1.2	1.1	1.3	.70	.54	.47	.51
2	1.7	.70	.80	3.6	.91	1.1	1.1	1.1	.70	.54	.45	.54
3	1.3	.70	.79	5.7	.94	1.1	1.1	.99	.70	.54	.47	.54
4	1.1	.70	.78	3.4	.90	1.1	1.0	.99	.70	.54	.47	.54
5	1.1	.70	.78	2.5	.92	1.1	.99	.97	.64	.54	.47	.54
6	1.1	.63	.79	1.8	.90	1.1	.99	.88	.54	.54	.47	.54
7	.99	.61	.79	1.3	.90	1.0	.99	.88	.54	.54	.47	.54
8	.99	.61	.79	1.1	1.4	.95	1.0	1.0	.54	.54	.47	.54
9	.99	.60	.79	1.1	1.3	.88	1.1	1.3	.58	.54	.47	.54
10	.99	.54	.79	1.1	1.2	.88	1.1	1.1	.61	.54	.47	.54
11	.92	1.4	.88	1.1	1.1	.88	.99	1.1	.61	.54	.47	.54
12	.88	1.5	.88	1.1	1.1	.88	.99	1.1	.61	.54	.47	.54
13	.88	.91	.88	1.1	1.1	1.0	.99	1.1	.61	.54	.47	.54
14	.88	3.4	.88	1.1	1.0	1.1	.91	.99	.61	.54	.47	.54
15	.88	1.5	.88	1.1	1.0	2.5	.88	.89	.61	.54	.47	.54
16	.86	1.2	.88	1.1	1.0	7.0	.88	.88	.61	.54	.47	.54
17	.78	1.0	.88	1.0	1.0	3.3	.88	1.4	.61	.48	.47	.54
18	.78	.84	.88	.99	.94	2.4	.88	1.1	.61	.47	.47	.54
19	.78	.71	.88	.99	.89	2.3	.88	.84	.60	.47	.47	3.3
20	.78	.75	.88	.99	.86	2.1	.88	.88	.54	.47	.47	1.6
21	.78	.79	.79	.99	2.8	1.6	.88	.88	.54	.47	.50	1.0
22	.78	.79	.79	.99	1.7	1.5	.88	.88	.54	.47	.54	.90
23	.78	.77	.79	.99	2.4	1.4	.88	.88	.54	.47	.54	.86
24	.78	.73	.79	.99	1.5	1.9	.88	.88	.54	.47	.54	.78
25	.78	.71	.79	.99	1.2	2.1	.88	.88	.54	.47	.50	.78
26	.78	.70	.79	.99	1.1	1.5	.88	.88	.54	.47	.47	.79
27	.78	.70	.79	.88	1.1	1.4	.88	.88	.54	.47	.47	.80
28	.74	.62	.79	.88	1.1	1.2	.88	.88	.54	.47	.47	.95
29	.70	.70	1.0	.88	---	1.1	.88	.76	.54	.47	.47	1.2
30	.70	.70	8.5	.88	---	1.1	.90	.70	.53	.47	.47	.90
31	.70	---	4.9	.86	---	1.1	---	.70	---	.47	.47	---
TOTAL	28.98	26.91	37.38	44.49	33.12	49.77	28.45	29.99	17.66	15.70	14.82	23.55
MEAN	.93	.90	1.21	1.44	1.18	1.61	.95	.97	.59	.51	.48	.79
MAX	2.0	3.4	8.5	5.7	2.8	7.0	1.1	1.4	.70	.54	.54	3.3
MIN	.70	.54	.76	.86	.86	.88	.88	.70	.53	.47	.45	.51
AC-FT	57	53	74	88	66	99	56	59	35	31	29	47

CAL YR 1976 TOTAL 474.46 MEAN 1.30 MAX 9.8 MIN .54 AC-FT 941
WTR YR 1977 TOTAL 350.82 MEAN .96 MAX 8.5 MIN .45 AC-FT 696

11159690 APTOS CREEK NEAR APTOS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976-77 (discontinued).
CHEMICAL ANALYSES: Water year 1977.
SEDIMENT RECORDS: Water year 1976-77 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 25...	1130	.50	900	7.8	14.5	9.4	330	43	72

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 25...	37	110	41	2.6	5.6	350	0	290	100

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 25...	110	.3	37	645	.88	.87	.09	150	40

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB 08...	1130	9.0	1.4	7	.03	39

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, on left bank 0.2 mi (0.3 km) upstream from highway bridge in town of Soquel, and 0.4 mi (0.6 km) downstream from Bates Creek.

DRAINAGE AREA.--40.2 mi^2 (104.1 km^2).

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) above mean sea level.

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

AVERAGE DISCHARGE.--26 years, 41.2 ft^3/s (1.167 m^3/s), 29,850 acre-ft/yr (36.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft^3/s (447 m^3/s) Dec. 23, 1955, gage height, 22.33 ft (6.806 m), from rating curve extended above 2,900 ft^3/s (82.1 m^3/s) on basis of slope-area measurement of maximum flow; no flow July 30 to Aug. 2, Aug. 28-30, Sept. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 118 ft^3/s (3.34 m^3/s) Dec. 30, gage height, 3.46 ft (1.055 m), no peak above base of 1,000 ft^3/s (28 m^3/s); no flow July 30 to Aug. 2, Aug. 28-30, Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	1.7	3.0	12	3.1	3.3	3.9	3.6	1.1	.51	0	.02
2	3.7	1.4	2.7	25	3.1	3.2	3.7	3.2	1.0	.44	0	.19
3	2.6	1.4	2.5	19	3.1	3.1	3.6	2.6	.86	.39	.05	.25
4	2.1	1.2	2.6	14	3.0	3.1	3.4	2.4	.68	.36	.05	.18
5	1.9	1.2	2.6	11	3.0	3.1	3.3	2.4	.72	.24	.14	.15
6	1.7	1.1	2.7	9.0	3.0	3.0	3.2	2.3	.75	.22	.14	.06
7	1.7	1.2	2.8	6.6	3.0	3.0	3.0	2.5	.87	.34	.24	.01
8	1.8	1.1	3.1	5.4	4.2	2.8	3.5	3.1	.84	.45	.08	0
9	1.8	1.1	3.5	4.9	4.2	3.0	3.7	3.6	1.3	.45	.09	.07
10	1.9	1.1	3.6	4.5	3.7	3.0	3.1	3.1	1.5	.31	.20	.45
11	2.0	4.7	3.5	4.6	3.7	2.7	3.1	3.1	1.3	.40	.12	.26
12	2.0	3.8	3.4	4.6	3.6	2.7	3.0	3.0	1.0	.50	.27	.32
13	1.8	2.5	3.5	4.3	3.5	3.2	2.7	2.8	1.0	.70	.15	.16
14	1.9	26	3.5	4.1	3.4	3.2	2.7	2.3	.99	.59	.17	.29
15	1.8	6.8	3.6	3.9	3.3	11	2.7	2.1	.82	.29	.08	.29
16	2.0	4.3	3.6	3.8	3.3	42	2.6	2.0	.95	.30	.08	.59
17	2.2	3.6	3.6	3.7	3.3	15	2.6	1.8	1.1	.38	.02	.66
18	2.0	3.4	3.6	3.8	3.2	9.1	2.4	2.0	1.1	.28	.02	.52
19	2.1	3.2	3.7	3.7	3.0	6.9	2.2	2.2	1.1	.29	.06	9.3
20	2.0	3.3	3.7	3.5	2.9	6.0	2.5	2.1	1.1	.14	.05	3.1
21	1.9	3.3	3.6	3.5	9.5	5.3	2.3	1.6	.91	.11	.67	1.6
22	2.0	3.2	3.7	3.4	5.7	4.8	2.4	1.8	.70	.15	1.3	1.3
23	2.0	3.2	3.7	3.3	8.4	4.5	2.3	1.8	.77	.05	.51	1.0
24	2.1	3.1	3.6	3.2	6.1	6.1	2.3	1.7	.69	.05	.34	.99
25	1.7	3.0	3.7	3.4	4.1	7.4	2.5	1.7	.72	.12	.16	.92
26	1.7	3.0	3.8	3.3	3.6	6.1	2.4	1.7	.76	.05	.08	.83
27	1.5	2.7	3.7	3.2	3.4	5.1	2.3	1.8	.86	.02	.02	.87
28	1.4	2.9	3.8	3.1	3.5	4.6	2.2	1.7	.51	.03	0	1.2
29	1.4	3.0	4.3	3.0	---	4.3	2.2	1.5	.49	.01	0	1.4
30	1.7	3.0	49	3.0	---	4.1	2.4	1.3	.70	0	0	1.2
31	1.9	---	31	3.0	---	4.1	---	1.2	---	0	.05	---
TOTAL	62.9	104.5	178.7	186.8	110.9	188.8	84.2	70.0	27.19	8.17	5.14	28.18
MEAN	2.03	3.48	5.76	6.03	3.96	6.09	2.81	2.26	.91	.26	.17	.94
MAX	4.6	26	49	25	9.5	42	3.9	3.6	1.5	.70	1.3	9.3
MIN	1.4	1.1	2.5	3.0	2.9	2.7	2.2	1.2	.49	0	0	0
AC-FT	125	207	354	371	220	374	167	139	54	16	10	56

CAL YR 1976 TOTAL 1467.16 MEAN 4.01 MAX 52 MIN .22 AC-FT 2910
WTR YR 1977 TOTAL 1055.48 MEAN 2.89 MAX 49 MIN 0 AC-FT 2090

11160000 SOQUEL CREEK AT SOQUEL, CA--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: January 1966 to current year.

INSTRUMENTATION.--Temperature recorder since January 1966.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 30.5°C Aug. 29, 1968; minimum recorded, 2.0°C Jan. 30, 1975.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 21.0°C Sept. 2; minimum, 4.5°C Dec. 27, 28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 19...	1330	.09	680	7.7	19.0	8.2	290	93	79

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 19...	23	47	26	1.2	5.2	240	0	200	110

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 19...	58	.3	39	480	.65	.12	.01	100	30

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB 08...	1215	12.0	4.3	6	.07	53

11160000 SOQUEL CREEK AT SOQUEL, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	16.0	13.0	10.0	9.5	7.0	8.0	6.5	9.5	9.0	11.0	10.5
2	17.5	15.0	13.0	10.0	9.5	7.5	9.5	8.0	9.0	9.0	10.5	10.5
3	18.5	14.5	13.0	10.0	10.0	8.0	9.0	7.0	9.0	9.0	11.0	10.5
4	18.5	15.0	13.5	10.5	9.5	7.5	8.5	6.5	9.0	9.0	12.5	11.0
5	19.0	15.5	14.0	10.5	9.5	7.0	7.5	6.0	10.0	9.5	14.5	12.0
6	19.5	15.5	13.5	10.5	9.5	7.0	8.0	6.0	11.0	10.5	14.5	13.0
7	18.5	16.0	13.5	11.0	10.0	7.5	7.5	6.0	12.0	11.5	14.5	13.5
8	19.0	16.0	13.0	10.5	9.5	7.5	8.0	7.0	12.0	12.0	13.5	13.5
9	18.5	15.0	13.5	11.0	10.0	7.5	7.0	6.5	12.0	11.5	14.5	13.5
10	17.0	15.5	14.0	11.5	9.0	7.0	7.0	6.5	11.5	11.5	13.5	11.5
11	17.0	14.5	13.5	12.5	9.0	7.0	7.0	6.5	11.5	11.0	13.5	11.0
12	18.0	14.0	14.0	12.5	8.5	6.0	8.0	7.0	11.5	11.0	13.0	11.5
13	18.0	14.0	13.5	12.0	8.5	6.5	7.0	6.5	11.5	11.0	12.0	10.5
14	16.5	13.0	14.0	13.0	8.5	6.0	6.5	6.5	12.0	11.0	12.0	10.0
15	16.0	12.5	15.0	13.0	8.0	6.0	6.5	6.5	12.0	11.5	12.0	11.0
16	15.5	12.5	14.5	12.5	8.5	6.0	7.0	6.5	12.0	12.0	11.0	10.0
17	15.5	12.5	14.5	12.0	8.0	6.0	7.0	6.5	12.0	12.0	11.0	10.0
18	15.5	13.5	14.0	12.0	8.5	6.0	7.5	7.0	12.0	12.0	12.0	9.5
19	16.5	13.5	14.0	11.5	8.5	6.0	8.5	7.5	12.0	12.0	13.0	10.5
20	16.5	13.5	13.5	12.0	8.5	6.0	9.0	8.5	12.5	12.0	13.0	12.0
21	16.5	13.5	14.0	12.5	8.5	6.0	10.5	9.0	12.5	12.5	14.0	12.0
22	15.5	13.5	13.5	11.5	8.0	6.0	11.0	10.5	12.5	12.5	15.0	13.0
23	15.5	13.5	13.0	10.5	9.5	7.0	11.0	11.0	12.5	12.5	14.5	13.0
24	15.5	14.0	13.0	10.5	8.5	6.0	11.0	11.0	12.5	11.0	13.0	11.0
25	15.5	13.0	12.0	10.0	8.0	5.5	11.0	10.0	11.0	11.0	13.0	11.0
26	15.0	11.5	12.0	10.0	7.5	5.0	10.0	10.0	11.0	10.5	13.5	11.0
27	14.5	11.0	10.5	8.5	7.5	4.5	10.0	10.0	11.5	10.5	14.0	12.0
28	13.5	10.5	9.5	7.0	7.5	4.5	10.0	9.0	11.5	10.5	12.5	11.0
29	12.5	10.0	9.0	7.0	9.5	5.0	9.0	9.0	---	---	12.5	10.5
30	13.0	10.0	9.5	7.0	8.5	7.0	9.0	9.0	---	---	13.0	11.0
31	12.5	10.0	---	---	9.0	6.5	9.0	9.0	---	---	12.5	10.5
MONTH	19.5	10.0	15.0	7.0	10.0	4.5	11.0	6.0	12.5	9.0	15.0	9.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	11.5	15.0	14.5	19.0	16.5	18.0	17.0	---	---	20.5	19.5
2	13.5	11.0	15.5	13.0	19.0	16.5	18.5	16.0	---	---	21.0	18.5
3	14.0	12.0	15.5	13.0	18.0	15.0	18.0	15.0	20.0	18.5	19.0	18.0
4	13.5	12.0	14.5	11.0	18.0	14.0	17.5	14.5	20.0	19.0	19.5	19.0
5	14.0	11.0	13.5	11.5	18.0	15.5	17.5	14.5	20.5	19.0	20.0	18.5
6	14.5	11.5	13.0	10.5	18.0	15.5	17.5	15.0	20.0	19.0	20.0	18.0
7	13.0	12.0	13.0	11.0	17.0	16.5	17.0	16.0	20.5	17.5	---	---
8	12.0	11.5	13.0	12.0	17.0	16.0	18.0	16.0	20.5	17.5	---	---
9	12.0	10.5	12.0	11.5	16.0	15.0	17.5	16.0	19.0	18.5	19.5	19.0
10	13.0	9.5	12.0	11.5	15.0	14.5	17.0	16.0	19.0	18.5	19.0	19.0
11	13.5	11.0	12.0	12.0	16.5	14.0	17.0	16.0	19.0	19.0	19.0	19.0
12	14.0	11.0	14.0	11.5	16.5	14.5	16.0	15.5	19.0	18.0	19.0	19.0
13	14.5	12.0	14.5	11.5	15.0	15.0	17.5	15.5	19.5	18.0	19.0	18.0
14	14.0	10.5	15.0	13.5	16.5	15.0	17.5	15.5	19.5	17.5	18.5	18.0
15	14.0	11.0	15.5	12.5	16.5	14.5	17.5	15.5	19.5	17.5	18.5	18.5
16	14.0	11.5	15.5	12.5	16.5	15.0	17.5	16.0	19.0	18.0	18.5	18.0
17	14.5	11.5	15.0	12.0	15.5	15.0	18.0	16.5	20.0	19.0	18.5	18.0
18	14.5	11.0	13.5	11.5	15.5	15.0	17.5	16.0	20.0	19.0	18.0	18.0
19	14.5	11.0	16.5	13.0	15.5	15.0	18.0	16.0	---	---	18.0	18.0
20	14.5	11.0	16.0	14.0	16.5	15.0	18.0	16.0	---	---	18.0	18.0
21	14.0	10.5	17.0	15.5	18.5	15.5	18.5	16.0	---	---	18.0	18.0
22	14.0	10.0	17.0	16.0	18.0	16.0	18.0	16.0	---	---	18.0	17.5
23	14.0	10.0	16.0	14.0	18.0	16.0	18.0	16.5	---	---	17.5	17.0
24	13.5	11.5	16.5	14.0	17.0	15.5	18.5	16.0	---	---	18.5	17.5
25	15.0	12.5	16.5	14.5	17.5	16.5	18.0	15.5	20.0	18.5	18.5	18.0
26	14.5	12.0	16.0	15.5	17.5	16.5	18.5	15.5	20.5	20.0	19.0	18.5
27	14.0	12.0	16.5	14.0	17.5	16.5	18.0	15.0	---	---	19.5	19.5
28	15.0	11.5	17.0	14.5	17.5	16.5	---	---	---	---	19.5	19.5
29	14.0	13.0	17.5	14.5	18.5	16.0	---	---	---	---	19.5	19.5
30	14.5	14.0	18.0	15.0	17.5	16.0	---	---	---	---	19.5	18.0
31	---	---	18.5	16.0	---	---	---	---	20.5	19.5	---	---
MONTH	15.0	9.5	18.5	10.5	19.0	14.0	18.5	14.5	---	---	21.0	17.0

11160020 SAN LORENZO RIVER NEAR BOULDER CREEK, CA

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

DRAINAGE AREA.--6.17 mi^2 (15.98 km^2).

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. No regulation or diversion above station.

AVERAGE DISCHARGE.--9 years, 6.17 ft^3/s (0.175 m^3/s), 4,470 acre-ft/yr (5.51 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11 ft^3/s (0.31 m^3/s) Mar. 15, gage height, 2.47 ft (0.753 m), no peak above base of 70 ft^3/s (2.0 m^3/s); minimum daily, 0.08 ft^3/s (0.002 m^3/s) Aug. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.53	.36	.49	.56	.42	.61	.48	.76	.42	.20	.09	.16
2	.39	.36	.49	2.1	.42	.57	.48	.61	.42	.22	.08	.17
3	.36	.36	.49	1.4	.46	.57	.48	.57	.42	.25	.10	.16
4	.36	.32	.49	.88	.49	.57	.48	.57	.40	.23	.10	.16
5	.30	.33	.49	.72	.49	.57	.48	.57	.39	.20	.10	.15
6	.30	.36	.49	.66	.49	.57	.48	.57	.36	.20	.13	.12
7	.30	.36	.49	.66	.46	.57	.42	.57	.36	.20	.13	.12
8	.30	.36	.49	.57	.50	.57	.46	.65	.39	.20	.13	.12
9	.30	.36	.49	.57	.52	.72	.49	.70	.47	.20	.13	.13
10	.30	.36	.49	.57	.49	.69	.46	.73	.49	.20	.13	.13
11	.30	.56	.49	.57	.47	.66	.42	.69	.49	.20	.12	.17
12	.30	.57	.49	.57	.46	.66	.42	.71	.40	.20	.12	.17
13	.30	.49	.49	.57	.49	.75	.42	.64	.42	.20	.12	.17
14	.25	.93	.49	.53	.49	.75	.42	.57	.42	.19	.12	.19
15	.26	.61	.49	.49	.49	2.8	.42	.59	.39	.17	.12	.25
16	.25	.50	.49	.49	.49	3.6	.42	.57	.37	.17	.10	.27
17	.25	.49	.49	.49	.49	.95	.42	.57	.36	.15	.10	.28
18	.28	.49	.49	.49	.49	.71	.42	.57	.39	.13	.10	.25
19	.30	.47	.49	.49	.49	.54	.42	.60	.42	.17	.10	.66
20	.30	.46	.49	.49	.51	.49	.42	.57	.40	.17	.10	.29
21	.28	.49	.49	.49	.91	.49	.42	.53	.35	.15	.11	.25
22	.30	.49	.49	.49	.73	.49	.42	.54	.30	.13	.11	.22
23	.30	.47	.49	.49	.86	.52	.42	.57	.30	.14	.10	.21
24	.30	.49	.49	.49	.71	.64	.42	.60	.30	.17	.10	.21
25	.30	.46	.49	.49	.65	.59	.42	.57	.30	.17	.12	.21
26	.30	.44	.49	.49	.57	.56	.47	.50	.28	.15	.11	.21
27	.30	.43	.49	.49	.57	.56	.49	.49	.30	.13	.15	.22
28	.30	.49	.49	.49	.61	.52	.49	.46	.27	.10	.14	.26
29	.30	.49	.52	.49	---	.52	.49	.44	.20	.12	.13	.25
30	.33	.49	1.0	.45	---	.52	.49	.43	.20	.10	.12	.24
31	.36	---	.71	.42	---	.51	---	.42	---	.09	.13	---
TOTAL	9.60	13.84	15.95	19.15	15.22	23.84	13.44	17.93	10.98	5.30	3.54	6.40
MEAN	.31	.46	.51	.62	.54	.77	.45	.58	.37	.17	.11	.21
MAX	.53	.93	1.0	2.1	.91	3.6	.49	.76	.49	.25	.15	.66
MIN	.25	.32	.49	.42	.42	.49	.42	.42	.20	.09	.08	.12
AC-FT	19	27	32	38	30	47	27	36	22	11	7.0	13

CAL YR 1976 TOTAL 259.46 MEAN .71 MAX 4.4 MIN .23 AC-FT 515
WTR YR 1977 TOTAL 155.19 MEAN .43 MAX 3.6 MIN .08 AC-FT 308

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, 1977.
SEDIMENT RECORDS: Water year 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 17...	1530	.08	600	7.7	20.0	8.4	240	5	76

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 17...	13	30	21	.8	1.4	290	0	240	46

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 17...	15	.4	23	348	.47	.08	.03	260	60

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, 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 mi^2 (29.3 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to September 1977.

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

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

EXTREME FOR CURRENT YEAR.--Maximum discharge, 108 ft^3/s (3.06 m^3/s) Mar. 15, gage height, 2.29 ft (0.698 m), no peak above base of 150 ft^3/s (4.2 m^3/s); minimum daily 0.41 ft^3/s (0.012 m^3/s) Oct. 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.63	1.1	2.5	1.1	1.4	1.4	1.7	.71	.56	.56	.58
2	1.1	.50	1.1	18	1.0	1.3	1.4	.89	.71	.60	.60	.56
3	.84	.50	.97	9.1	1.1	1.2	1.4	.71	.71	.57	.65	.58
4	.79	.63	.95	3.0	1.1	1.2	1.3	.70	.69	.53	.71	.50
5	.76	.50	.91	2.1	1.1	1.1	1.3	.66	.66	.53	.70	.50
6	.72	.50	.86	1.8	1.0	1.1	1.2	.66	.66	.56	.72	.52
7	.67	.50	.86	1.6	1.0	1.1	1.2	.67	.65	.54	.64	.48
8	.66	.50	.80	1.7	1.7	1.1	1.3	.84	.57	.54	.47	.56
9	.65	.48	.80	1.3	1.5	1.5	1.4	.91	.68	.54	.45	.61
10	.66	.50	.72	1.3	1.2	1.4	1.2	.87	.75	.54	.52	.64
11	.65	1.4	.62	1.3	.99	1.4	1.2	.86	.79	.54	.50	.69
12	.65	.88	.62	1.4	.97	1.4	1.2	.88	.71	.54	.54	.70
13	.68	.71	.62	1.3	.97	1.8	1.1	.80	.71	.52	.53	.65
14	.67	8.8	.62	1.3	.97	1.7	1.0	.81	.71	.54	.52	.66
15	.69	1.6	.62	1.2	.97	30	1.0	.80	.71	.52	.68	.52
16	.74	1.1	.62	1.2	.97	17	.99	.80	.71	.47	.53	.60
17	.80	1.1	.90	1.2	.97	4.8	1.0	.80	.71	.51	.55	.62
18	.84	1.1	.71	1.2	1.0	3.6	1.0	.83	.71	.54	.53	.65
19	.62	1.1	.71	1.2	1.1	3.2	1.0	.86	.70	.58	.51	4.8
20	.46	1.1	.71	1.2	1.0	2.6	.79	.84	.67	.58	.51	.85
21	.44	1.1	.71	1.1	5.5	2.2	.62	.75	.65	.58	.49	.65
22	.44	1.1	.71	1.1	2.2	2.0	.58	.78	.64	.53	.50	.60
23	.43	1.1	.71	1.2	3.8	2.0	.58	.80	.62	.44	.52	.54
24	.43	1.0	.71	1.2	2.2	2.7	.58	.80	.64	.57	.53	.52
25	.45	1.0	.71	1.2	1.7	2.2	.62	.80	.63	.57	.51	.48
26	.42	1.0	.71	1.1	1.6	1.9	.66	.80	.65	.55	.50	.56
27	.41	1.0	.71	1.1	1.4	1.8	.62	.80	.64	.52	.54	.58
28	.41	1.1	.71	1.1	1.4	1.6	.67	.77	.61	.53	.57	.68
29	.43	1.1	2.3	1.0	---	1.6	.75	.71	.65	.55	.54	.71
30	.45	1.1	15	1.0	---	1.6	.72	.71	.57	.51	.51	.56
31	.47	---	4.8	1.0	---	1.6	---	.71	---	.51	.51	---
TOTAL	19.93	34.73	43.60	67.0	41.51	101.1	29.78	25.32	20.22	16.71	17.14	22.15
MEAN	.64	1.16	1.41	2.16	1.48	3.26	.99	.82	.67	.54	.55	.74
MAX	1.5	8.8	15	18	5.5	30	1.4	1.7	.79	.60	.72	4.8
MIN	.41	.48	.62	1.0	.97	1.1	.58	.66	.57	.44	.45	.48
AC-FT	40	69	86	133	82	201	59	50	40	33	34	44

WTR YR 1977 TOTAL 439.19 MEAN 1.20 MAX 30 MIN .41 AC-FT 871

11160070 BOULDER CREEK AT BOULDER CREEK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-77 (discontinued).
CHEMICAL ANALYSES: Water years 1973-75, 1977.
SEDIMENT RECORDS: Water year 1976-77 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 18...	0930	.54	300	7.0	17.0	8.5	110	12	29

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 18...	9.1	13	20	.5	2.1	120	0	100	14

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 18...	10	.1	18	156	.21	.23	.28	20	70

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB 07...	1300	8.5	1.0	4	.01	51

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, on left bank at downstream side of bridge on Zayante Road in town of Zayante, 0.4 mi (0.6 km) upstream from Lompico Creek, 2.0 mi (3.2 km) east of Ben Lomond, and 3.2 mi (5.1 km) upstream from mouth.

DRAINAGE AREA.--11.1 mi^2 (28.7 km^2).

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--20 years, 10.5 ft^3/s (0.297 m^3/s), 7,610 acre-ft/yr (9.38 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,700 ft^3/s (105 m^3/s) Apr. 2, 1958, gage height, 7.70 ft (2.347 m), from rating curve extended above 1,200 ft^3/s (34.0 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times, caused by filling of pools upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37 ft^3/s (1.05 m^3/s) Jan. 2, gage height, 2.32 ft (0.707 m), no peak above base of 450 ft^3/s (13 m^3/s); no flow several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.31	.54	2.5	.61	.72	.76	1.0	.23	.11	.01	.01
2	.89	.31	.57	11	.65	.68	.74	.77	.21	.09	.01	.02
3	.55	.29	.57	10	.67	.67	.70	.51	.21	.10	.01	.02
4	.45	.26	.57	2.7	.67	.65	.66	.48	.20	.09	.01	.02
5	.44	.24	.57	2.3	.67	.63	.64	.43	.19	.08	.01	.02
6	.41	.24	.57	2.1	.64	.62	.62	.50	.18	.07	.02	.01
7	.39	.26	.51	1.1	.64	.64	.58	.67	.18	.07	.02	0
8	.38	.24	.50	.85	.94	.63	.73	.73	.18	.08	.02	0
9	.33	.24	.50	.76	.91	.67	.80	.98	.23	.07	.02	0
10	.31	.24	.50	.70	.78	.66	.65	.89	.32	.10	.02	0
11	.27	.82	.56	.65	.76	.58	.61	.72	.25	.09	.02	0
12	.27	1.2	.57	.73	.73	.58	.56	.68	.22	.08	.01	0
13	.27	.77	.57	.68	.71	.72	.50	.56	.22	.06	.02	0
14	.26	4.7	.57	.65	.70	.71	.50	.48	.22	.08	.03	0
15	.24	1.1	.57	.60	.66	4.4	.45	.43	.19	.08	.03	0
16	.24	.85	.57	.57	.67	9.1	.44	.39	.18	.07	.04	.03
17	.28	.73	.57	.57	.66	2.8	.44	.37	.20	.06	.04	.06
18	.27	.63	.57	.58	.64	1.7	.39	.41	.18	.05	.03	.08
19	.31	.50	.57	.63	.61	1.4	.39	.49	.20	.04	.03	4.1
20	.31	.52	.57	.57	.57	1.2	.36	.42	.19	.04	.03	.90
21	.29	.57	.57	.57	1.9	1.0	.36	.39	.15	.04	.02	.28
22	.30	.57	.57	.57	1.1	.94	.39	.36	.12	.04	.02	.18
23	.27	.57	.57	.61	1.7	.96	.38	.43	.12	.04	.02	.30
24	.27	.53	.57	.64	1.1	1.9	.35	.48	.13	.04	.02	.14
25	.27	.50	.57	.64	.85	1.6	.41	.39	.11	.03	.02	.14
26	.27	.50	.57	.64	.77	1.1	.42	.40	.08	.03	.03	.13
27	.25	.49	.57	.60	.75	.95	.39	.43	.11	.03	.02	.11
28	.24	.44	.57	.66	.76	.89	.39	.33	.11	.03	.02	.16
29	.26	.50	.61	.67	---	.83	.42	.31	.10	.02	.02	.16
30	.27	.50	10	.64	---	.83	.39	.29	.10	.02	.02	.15
31	.28	---	6.7	.58	---	.77	---	.26	---	.02	.02	---
TOTAL	11.04	19.62	32.96	47.06	22.82	41.53	15.42	15.98	5.31	1.85	.66	7.02
MEAN	.36	.65	1.06	1.52	.82	1.34	.51	.52	.18	.060	.021	.23
MAX	1.2	4.7	10	11	1.9	9.1	.80	1.0	.32	.11	.04	4.1
MIN	.24	.24	.50	.57	.57	.58	.35	.26	.08	.02	.01	0
AC-FT	22	39	65	93	45	82	31	32	11	3.7	1.3	14

CAL YR 1976 TOTAL 281.71 MEAN .77 MAX 10 MIN .11 AC-FT 559
WTR YR 1977 TOTAL 221.27 MEAN .61 MAX 11 MIN 0 AC-FT 439

11160300 ZAYANTE CREEK AT ZAYANTE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-74, 1976-77 (discontinued).
CHEMICAL ANALYSES: Water years 1973-74, 1977.
WATER TEMPERATURES: Water years 1970-73.
SEDIMENT RECORDS: Water years 1970-73, 1976-77 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: February 1970 to September 1973.
SEDIMENT RECORDS: February 1970 to September 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 25...	1515	.01	800	8.0	22.0	10.2	270	26	81

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 25...	17	62	33	1.6	4.0	300	0	250	71

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 25...	65	.4	33	482	.66	.01	.09	180	40

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB 04...	1020	4.5	.63	13	.02	56

11160500 SAN LORENZO RIVER AT BIG TREES, CA

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

DRAINAGE AREA.--106 mi^2 (275 km^2).

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) above mean sea level (Santa Cruz County bench mark) 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 hm^3). Many small diversions above station for domestic supply.

AVERAGE DISCHARGE.--41 years, 131 ft^3/s (3.710 m^3/s), 94,910 acre-ft/yr (117 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,400 ft^3/s (861 m^3/s) Dec. 23, 1955, gage height, 22.55 ft (6.873 m) site and datum then in use, from rating curve extended above 11,000 ft^3/s (312 m^3/s) on basis of slope-area measurement of maximum flow; minimum, 0.8 ft^3/s (0.023 m^3/s), regulated, June 25, 1939; minimum daily, 5.6 ft^3/s (0.16 m^3/s) July 27, 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 263 ft^3/s (7.45 m^3/s) Mar. 15, gage height, 4.36 ft (1.329 m), no peak above base of 1,400 ft^3/s (40 m^3/s); minimum daily, 5.6 ft^3/s (0.16 m^3/s) July 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	13	11	24	14	16	12	15	9.2	8.0	5.8	6.9
2	19	12	11	87	14	15	13	13	8.6	7.9	6.1	6.7
3	15	10	12	102	14	14	13	11	8.6	7.8	6.3	6.5
4	12	11	12	32	14	15	12	11	8.8	8.0	6.2	6.5
5	12	10	12	28	14	15	12	12	8.3	7.7	6.2	6.3
6	12	11	12	26	14	15	12	13	8.0	6.9	6.3	6.4
7	11	11	12	23	14	15	12	12	8.5	6.9	6.2	6.3
8	11	10	12	21	16	15	13	13	8.4	6.9	6.4	6.5
9	11	10	12	20	17	15	13	12	8.8	6.7	6.3	8.6
10	13	10	12	18	16	15	12	12	9.6	6.8	6.4	6.4
11	11	19	12	17	15	15	12	12	9.9	7.0	6.5	6.6
12	10	18	12	18	15	15	13	12	8.7	6.8	6.7	6.7
13	10	16	12	18	15	16	13	12	9.1	7.0	6.9	6.4
14	10	65	12	17	14	16	13	11	9.4	6.9	6.9	6.7
15	9.8	25	12	16	14	61	13	11	8.9	6.7	6.7	6.6
16	10	16	12	16	14	128	13	11	8.1	6.6	7.5	7.0
17	10	13	12	16	14	32	13	11	12	6.8	7.2	7.0
18	10	13	12	15	14	25	12	11	9.3	7.6	5.8	7.1
19	10	12	13	15	14	24	12	11	9.6	6.9	6.2	46
20	10	12	12	15	14	23	12	12	15	6.2	6.1	16
21	10	12	12	15	25	19	12	12	14	6.1	7.0	11
22	10	12	12	15	24	13	12	12	10	5.8	6.8	9.4
23	11	12	12	15	27	14	12	11	9.5	5.8	6.7	8.7
24	11	12	12	15	27	17	12	10	9.2	5.9	8.6	8.1
25	11	12	12	14	21	15	12	11	8.9	6.2	6.8	8.0
26	10	12	12	14	18	14	12	12	9.2	5.8	6.2	8.1
27	10	12	12	14	17	14	12	12	9.0	5.6	6.0	8.0
28	11	12	12	14	17	13	12	11	8.3	5.6	6.1	9.8
29	11	12	13	14	---	13	12	11	8.0	6.0	6.2	9.5
30	11	11	110	14	---	13	12	11	8.2	6.0	6.0	8.9
31	11	---	49	14	---	13	---	10	---	5.7	6.5	---
TOTAL	356.8	436	507	702	466	663	370	361	281.1	206.6	201.6	272.7
MEAN	11.5	14.5	16.4	22.6	16.6	21.4	12.3	11.6	9.37	6.66	6.50	9.09
MAX	23	65	110	102	27	128	13	15	15	8.0	8.6	46
MIN	9.8	10	11	14	14	13	12	10	8.0	5.6	5.8	6.3
AC-FT	708	865	1010	1390	924	1320	734	716	558	410	400	541

CAL YR 1976 TOTAL 5951.6 MEAN 16.3 MAX 162 MIN 7.6 AC-FT 11800
WTR YR 1977 TOTAL 4823.8 MEAN 13.2 MAX 128 MIN 5.6 AC-FT 9570

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1906-7, 1952 to current year.
CHEMICAL ANALYSES: Water years 1906-7, 1952-67, 1969-70, 1973-75, 1977.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1966 to current year.
SEDIMENT RECORDS: October 1972 to current year.

INSTRUMENTATION.--Temperature recorder since May 1966.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 25.5°C July 14, 1972; minimum recorded, 1.5°C Dec. 15; 1967.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,170 mg/L Jan. 16, 1973; minimum daily mean, 1 mg/L on several days in 1972-74, 1975.
SEDIMENT DISCHARGE: Maximum daily, 125,000 tons (113,000 tonnes) Jan. 16, 1973; minimum daily, 0.06 ton (0.05 tonne) on several days in 1974-76.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 22.0°C July 30; minimum, 3.5°C Dec. 28, 29.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 199 mg/L Dec. 30; minimum daily mean, 2 mg/L on several days in December.
SEDIMENT DISCHARGE: Maximum daily, 84 tons (76 tonnes) Dec. 30; minimum daily, 0.06 ton (0.05 tonne) on several days in December.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 18...	1145	6.7	425	6.9	18.0	9.1	140	17	44

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 18...	7.4	27	29	1.0	2.0	150	0	120	37

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 18...	28	.2	.2	221	.30	4.00	.29	80	30

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	10.5	15.0	14.5	18.0	16.5	20.0	16.0	20.5	17.5	18.5	16.0
2	12.0	10.5	15.0	14.5	17.5	15.5	21.0	16.5	21.0	17.5	19.0	15.0
3	12.5	11.0	15.0	14.0	17.0	15.5	20.0	16.0	20.0	17.0	18.5	13.5
4	13.0	11.5	14.5	13.0	17.5	15.5	19.5	14.5	21.0	17.0	19.5	14.5
5	13.5	12.5	14.0	13.0	18.5	16.5	19.0	13.5	20.5	16.5	20.0	15.0
6	14.5	13.0	13.5	12.5	19.0	17.0	19.0	13.5	20.0	16.5	19.5	15.0
7	14.0	13.0	12.5	11.5	18.5	17.5	19.5	11.0	20.0	15.5	19.0	15.0
8	13.5	12.0	12.5	12.0	18.5	17.0	19.5	15.0	19.5	15.5	18.5	15.0
9	13.0	11.5	12.5	11.5	17.0	16.0	20.0	15.0	20.0	15.5	17.0	15.0
10	12.5	11.5	12.5	12.0	16.0	15.0	19.5	15.0	20.0	15.5	17.5	14.5
11	13.0	12.0	12.5	11.5	16.0	15.0	19.5	15.0	19.5	16.0	17.5	14.5
12	14.0	12.5	12.5	11.5	16.0	15.0	18.0	15.0	19.5	16.0	17.5	14.5
13	14.5	13.0	13.0	11.5	16.0	15.5	18.0	15.0	19.5	15.5	16.5	13.0
14	14.0	13.0	14.0	13.0	16.5	15.5	19.5	14.5	19.5	14.5	17.0	15.0
15	14.0	13.0	14.5	13.5	17.0	15.5	19.5	14.5	19.5	15.0	16.0	14.0
16	14.5	13.5	14.5	13.5	17.0	16.0	19.5	15.0	20.0	15.5	15.0	13.5
17	14.5	13.5	14.5	13.0	17.0	16.0	20.0	15.5	20.5	16.5	17.0	14.5
18	14.5	13.5	13.5	12.5	17.0	15.5	20.5	16.0	20.5	16.0	17.0	14.0
19	14.5	13.0	14.0	13.0	17.0	15.5	20.5	16.0	20.0	15.5	17.0	16.0
20	14.5	13.0	15.5	14.0	17.5	15.5	21.0	15.5	19.5	15.5	16.5	16.0
21	14.5	13.0	16.0	14.5	20.0	15.5	21.0	15.5	19.5	15.0	16.5	15.0
22	14.0	12.5	15.5	14.5	20.5	15.5	21.0	15.5	19.0	15.0	16.0	14.5
23	13.5	12.0	14.5	13.5	19.5	16.0	20.5	16.0	19.0	15.0	16.0	14.5
24	14.0	12.5	14.0	13.0	19.5	15.0	20.5	16.0	20.0	16.5	16.5	15.0
25	14.5	13.0	14.5	14.0	20.0	15.5	20.5	15.5	20.0	15.5	16.5	15.0
26	15.0	13.5	14.5	14.0	19.5	15.5	20.5	15.0	20.0	16.5	16.5	15.0
27	14.5	13.0	15.0	13.5	20.0	15.5	20.5	15.0	19.5	14.5	17.0	16.5
28	14.5	13.0	15.0	14.0	20.5	15.5	20.5	15.0	20.5	15.5	16.5	16.0
29	14.5	13.5	15.0	14.0	19.5	16.0	21.5	15.0	21.5	17.0	17.0	16.0
30	15.0	14.5	16.0	14.5	20.5	15.5	22.0	17.0	20.5	16.5	16.0	15.0
31	---	---	17.0	15.5	---	---	21.0	16.5	19.0	16.5	---	---
MONTH	15.0	10.5	17.0	11.5	20.5	15.0	22.0	11.0	21.5	14.5	20.0	13.0

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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	23	21	1.3	13	5	.18	11	2	.06
2	19	7	.36	12	5	.16	11	2	.06
3	15	7	.28	10	4	.11	12	2	.06
4	12	5	.16	11	6	.18	12	2	.06
5	12	5	.16	10	7	.19	12	4	.13
6	12	5	.16	11	9	.27	12	6	.19
7	11	5	.15	11	7	.21	12	8	.26
8	11	5	.15	10	6	.16	12	6	.19
9	11	5	.15	10	6	.16	12	4	.13
10	13	5	.18	10	6	.16	12	3	.10
11	11	5	.15	19	16	.96	12	2	.06
12	10	4	.11	18	7	.34	12	3	.10
13	10	4	.11	16	6	.26	12	4	.13
14	10	4	.11	65	159	58	12	4	.13
15	9.8	4	.11	25	15	1.1	12	3	.10
16	10	4	.11	16	10	.43	12	2	.06
17	10	4	.11	13	9	.32	12	2	.06
18	10	5	.14	13	8	.28	12	2	.06
19	10	5	.14	12	7	.23	13	3	.11
20	10	5	.14	12	6	.19	12	4	.13
21	10	6	.16	12	5	.16	12	4	.13
22	10	6	.16	12	4	.13	12	4	.13
23	11	6	.18	12	4	.13	12	4	.13
24	11	6	.18	12	4	.13	12	4	.13
25	11	6	.18	12	4	.13	12	4	.13
26	10	6	.16	12	5	.16	12	4	.13
27	10	6	.16	12	7	.23	12	4	.13
28	11	5	.15	12	8	.26	12	4	.13
29	11	4	.12	12	6	.19	13	4	.14
30	11	3	.09	11	4	.12	110	199	84
31	11	3	.09	---	---	---	49	93	19
TOTAL	356.8	---	5.91	436	---	65.53	507	---	106.36

	JANUARY			FEBRUARY			MARCH		
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	24	21	1.3	14	5	.19	16	5	.22
2	87	152	60	14	5	.19	15	5	.20
3	102	159	55	14	5	.19	14	5	.19
4	32	40	3.5	14	5	.19	15	5	.20
5	28	20	1.5	14	4	.15	15	5	.20
6	26	15	1.1	14	4	.15	15	5	.20
7	23	11	.68	14	5	.19	15	6	.24
8	21	9	.51	16	6	.26	15	7	.28
9	20	9	.49	17	7	.32	15	11	.45
10	18	8	.39	16	6	.26	15	19	.77
11	17	6	.28	15	5	.20	15	20	.81
12	18	4	.19	15	4	.16	15	19	.77
13	18	4	.19	15	4	.16	16	19	.82
14	17	3	.14	14	4	.15	16	16	.69
15	16	3	.13	14	4	.15	61	152	75
16	16	4	.17	14	4	.15	128	141	69
17	16	4	.17	14	4	.15	32	100	8.6
18	15	4	.16	14	4	.15	25	60	4.1
19	15	6	.24	14	4	.15	24	20	1.3
20	15	9	.36	14	4	.15	23	14	.87
21	15	8	.32	25	19	1.5	19	9	.46
22	15	7	.28	24	10	.65	13	7	.25
23	15	6	.24	27	8	.58	14	6	.23
24	15	5	.20	27	7	.51	17	12	.55
25	14	4	.15	21	5	.28	15	9	.36
26	14	4	.15	18	4	.19	14	9	.34
27	14	4	.15	17	4	.18	14	12	.45
28	14	4	.15	17	5	.23	13	13	.46
29	14	4	.15	---	---	---	13	14	.49
30	14	4	.15	---	---	---	13	15	.53
31	14	4	.15	---	---	---	13	16	.56
TOTAL	702	---	128.59	466	---	7.78	663	---	169.59

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	12	13	.42	15	13	.53	9.2	5	.12
2	13	10	.35	13	10	.35	8.6	5	.12
3	13	6	.21	11	9	.27	8.6	5	.12
4	12	10	.32	11	6	.18	8.8	5	.12
5	12	13	.42	12	6	.19	8.3	4	.09
6	12	18	.58	13	7	.25	8.0	4	.09
7	12	18	.58	12	8	.26	8.5	4	.09
8	13	18	.63	13	6	.21	8.4	5	.11
9	13	18	.63	12	5	.16	8.8	6	.14
10	12	17	.55	12	5	.16	9.6	5	.13
11	12	17	.55	12	5	.16	9.9	4	.11
12	13	21	.74	12	5	.16	8.7	4	.09
13	13	33	1.2	12	5	.16	9.1	5	.12
14	13	45	1.6	11	5	.15	9.4	7	.18
15	13	43	1.5	11	5	.15	8.9	9	.22
16	13	36	1.3	11	5	.15	8.1	10	.22
17	13	33	1.2	11	4	.12	12	12	.39
18	12	32	1.0	11	4	.12	9.3	14	.35
19	12	31	1.0	11	4	.12	9.6	16	.41
20	12	30	.97	12	4	.13	15	18	.73
21	12	30	.97	12	4	.13	14	18	.68
22	12	29	.94	12	4	.13	10	17	.46
23	12	27	.87	11	5	.15	9.5	16	.41
24	12	26	.84	10	5	.14	9.2	15	.37
25	12	26	.84	11	5	.15	8.9	15	.36
26	12	27	.87	12	5	.16	9.2	14	.35
27	12	27	.87	12	5	.16	9.0	13	.32
28	12	25	.81	11	6	.18	8.3	12	.27
29	12	21	.68	11	6	.18	8.0	11	.24
30	12	18	.58	11	6	.18	8.2	9	.20
31	---	---	---	10	6	.16	---	---	---
TOTAL	370	---	24.02	361	---	5.70	281.1	---	7.61

	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	8.0	8	.17	5.8	9	.14	6.9	26	.48
2	7.9	7	.15	6.1	8	.13	6.7	20	.36
3	7.8	7	.15	6.3	7	.12	6.5	16	.28
4	8.0	7	.15	6.2	7	.12	6.5	15	.26
5	7.7	7	.15	6.2	7	.12	6.3	14	.24
6	6.9	7	.13	6.3	7	.12	6.4	13	.22
7	6.9	7	.13	6.2	7	.12	6.3	13	.22
8	6.9	6	.11	6.4	7	.12	6.5	11	.19
9	6.7	6	.11	6.3	8	.14	8.6	14	.43
10	6.8	6	.11	6.4	8	.14	6.4	8	.14
11	7.0	7	.13	6.5	9	.16	6.6	9	.16
12	6.8	7	.13	6.7	9	.16	6.7	9	.16
13	7.0	7	.13	6.9	9	.17	6.4	7	.12
14	6.9	8	.15	6.9	9	.17	6.7	7	.13
15	6.7	8	.14	6.7	8	.14	6.6	7	.12
16	6.6	8	.14	7.5	7	.14	7.0	6	.11
17	6.8	7	.13	7.2	6	.12	7.0	7	.13
18	7.6	7	.14	5.8	5	.08	7.1	9	.17
19	6.9	7	.13	6.2	5	.08	46	100	26
20	6.2	6	.10	6.1	5	.08	16	40	1.7
21	6.1	6	.10	7.0	15	.28	11	18	.53
22	5.8	6	.09	6.8	20	.37	9.4	7	.18
23	5.8	6	.09	6.7	15	.27	8.7	6	.14
24	5.9	6	.10	8.6	16	.37	8.1	6	.13
25	6.2	6	.10	6.8	8	.15	8.0	6	.13
26	5.8	7	.11	6.2	7	.12	8.1	6	.13
27	5.6	7	.11	6.0	7	.11	8.0	7	.15
28	5.6	7	.11	6.1	8	.13	9.8	7	.19
29	6.0	7	.11	6.2	8	.13	9.5	8	.21
30	6.0	7	.11	6.0	8	.13	8.9	12	.29
31	5.7	7	.11	6.5	22	.39	---	---	---
TOTAL	206.6	---	3.82	201.6	---	5.02	272.7	---	33.70
YEAR	4823.8		563.63						

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

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1976	356.80	5.91	0	6
NOVEMBER ...	436.00	65.53	0	66
DECEMBER ...	507.00	106.36	2	108
JANUARY 1977	702.00	128.59	1	130
FEBRUARY ...	466.00	7.78	0	8
MARCH	663.00	169.59	5	175
APRIL	370.00	24.02	0	24
MAY	361.00	5.70	0	6
JUNE	281.10	7.61	0	8
JULY	206.60	3.82	0	4
AUGUST	201.60	5.02	0	5
SEPTEMBER ..	272.70	33.70	0	34
TOTAL	4823.80	563.63	8	574

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV									
11...	1700	12.0	22	23	1.4	97	100	--	--
14...	0805	12.0	101	208	57	95	97	99	100
DEC									
30...	0735	7.5	87	85	20	94	98	100	--
30...	1445	8.0	115	30	9.3	91	97	100	--
31...	1410	8.5	32	48	4.1	96	98	100	--
JAN									
03...	1645	8.5	73	97	19	98	100	--	--
MAR									
16...	0730	8.5	167	87	39	92	93	95	100
SEP									
19...	1050	16.0	129	245	85	96	99	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, on right bank, 0.6 mi (1.0 km) downstream from small right-bank tributary, 1.2 mi (1.9 km) upstream from Mill Creek, and 3.1 mi (5.0 km) north of Davenport.

DRAINAGE AREA.--6.07 mi^2 (15.72 km^2).

WATER-DISCHARGE RECORDS

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.--8 years, 7.56 ft^3/s (0.214 m^3/s), 5,480 acre-ft/yr (6.76 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12 ft^3/s (0.34 m^3/s) Mar. 15, gage height, 3.08 ft (0.939 m), no peak above base of 100 ft^3/s (2.8 m^3/s); no flow Sept. 9-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	.69	.79	1.5	.79	.69	1.0	1.0	.69	.50	.60	.34
2	1.3	.69	.79	4.6	.79	.69	1.0	.90	.69	.60	.42	.42
3	1.2	.60	.69	5.0	.79	.69	.90	.79	.69	.60	.27	.34
4	1.1	.60	.69	2.5	.79	.69	.90	.79	.69	.60	.27	.34
5	1.0	.60	.69	1.7	.79	.69	.82	.69	.69	.60	.34	.34
6	1.0	.60	.69	1.5	.79	.69	.69	.79	.69	.60	.34	.12
7	.90	.60	.69	1.2	.79	.69	.69	.90	.69	.60	.42	.02
8	.90	.60	.69	1.1	1.3	.69	.90	1.1	.79	.60	.50	.02
9	.79	.60	.69	1.0	1.1	1.0	.90	1.1	.79	.60	.50	0
10	.79	.60	.69	1.0	.90	.79	.79	1.1	.90	.60	.50	0
11	.79	1.5	.79	1.0	.79	.69	.79	1.1	.90	.50	.60	0
12	.79	1.0	.79	1.0	.79	.69	.69	1.2	.90	.42	.42	0
13	.69	.79	.79	1.0	.69	.79	.69	1.0	.90	.50	.21	0
14	.69	.67	.90	1.0	.69	.79	.69	.90	.90	.50	.21	0
15	.60	1.6	.90	1.0	.69	3.5	.69	.90	.90	.42	.21	0
16	.60	1.1	1.0	1.0	.69	7.1	.60	.90	.90	.42	.21	0
17	.60	1.0	1.0	1.0	.60	2.9	.69	.90	.90	.34	.21	0
18	.60	.90	1.0	.90	.60	2.2	.69	.90	.90	.34	.21	0
19	.69	.90	1.0	.90	.60	1.7	.60	1.0	.90	.42	.21	2.7
20	.69	.90	1.0	.90	.60	1.5	.60	.90	.90	.42	.21	.90
21	.69	.90	1.0	.90	2.1	1.3	.60	.90	1.0	.42	.21	.69
22	.69	.90	1.1	.90	1.3	1.2	.60	.90	1.0	.42	.21	.60
23	.69	.79	1.1	.90	2.2	1.3	.60	.90	1.0	.42	.21	.50
24	.79	.79	1.1	.90	1.2	2.4	.60	.90	1.0	.42	.21	.50
25	.79	.79	1.1	.90	.90	1.6	.60	.90	1.0	.42	.27	.50
26	.69	.79	1.1	.90	.79	1.2	.60	1.0	1.0	.42	.34	.50
27	.69	.79	1.1	.79	.79	1.1	.60	1.0	.79	.42	.21	.50
28	.69	.79	1.1	.90	.79	1.0	.60	.90	.42	.42	.27	.69
29	.69	.79	1.5	.90	---	1.0	.60	.79	.50	.50	.27	.69
30	.69	.79	5.1	.79	---	1.0	.60	.79	.50	.50	.27	.69
31	.69	---	2.2	.79	---	1.0	---	.79	---	.60	.34	---
TOTAL	25.31	24.66	33.77	40.37	25.64	43.27	21.32	28.63	24.52	15.14	9.67	11.40
MEAN	.82	.82	1.09	1.30	.92	1.40	.71	.92	.82	.49	.31	.38
MAX	1.8	1.6	5.1	5.0	2.2	7.1	1.0	1.2	1.0	.60	.60	2.7
MIN	.60	.60	.69	.79	.60	.69	.60	.69	.42	.34	.21	0
AC-FT	50	49	67	80	51	86	42	57	49	30	19	23

CAL YR 1976 TOTAL 470.30 MEAN 1.29 MAX 7.6 MIN .60 AC-FT 933
WTR YR 1977 TOTAL 303.70 MEAN .83 MAX 7.1 MIN 0 AC-FT 602

11161800 SAN VICENTE CREEK NEAR DAVENPORT, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 26...	1120	.23	215	7.1	13.5	9.5	197	63	0	18

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 26...	4.3	16	35	.9	1.9	83	0	68	7.0

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 26...	14	.1	27	129	.18	.08	.05	30	20

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, on left bank at downstream side of highway bridge, 3.0 mi (4.8 km) east of Pescadero, and 5.3 mi (8.5 km) upstream from mouth.

DRAINAGE AREA.--45.9 mi^2 (118.9 km^2).

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 62.3 ft (18.99 m) above mean sea level.

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

AVERAGE DISCHARGE.--26 years, 39.4 ft^3/s (1.116 m^3/s), 28,550 acre-ft/yr (35.2 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 67 ft^3/s (1.90 m^3/s) Mar. 16, gage height, 2.43 ft (0.741 m), no peak above base of 700 ft^3/s (20 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	.80	2.3	3.3	2.1	2.6	2.1	1.9	1.3	.31	.05	0
2	2.1	.76	2.4	3.6	2.1	2.4	2.6	2.4	1.1	.31	.04	0
3	1.7	.73	2.6	17	2.1	2.3	2.5	2.4	.97	.31	.03	0
4	1.3	.82	2.5	6.7	2.1	2.0	2.4	2.0	.89	.28	.02	0
5	1.0	.82	2.4	3.5	2.1	1.8	2.7	1.7	.84	.27	.03	0
6	.90	.87	2.3	2.9	2.2	1.7	2.5	1.6	.82	.27	.03	0
7	.87	.85	2.0	2.7	2.3	1.7	2.4	1.7	.64	.28	.03	0
8	.86	.76	1.7	2.7	2.6	1.7	2.4	2.1	.70	.23	.03	0
9	.86	.90	1.6	2.7	3.2	2.2	2.4	2.1	.71	.27	.02	0
10	.90	.93	1.8	2.8	3.3	2.4	2.4	2.5	.75	.27	.02	0
11	.84	2.4	1.8	2.8	2.9	2.6	2.4	2.5	.86	.27	.02	0
12	.80	2.1	1.9	2.9	2.8	2.3	2.2	2.5	.97	.31	.02	0
13	.82	1.7	1.9	2.9	2.9	2.5	2.2	2.0	1.0	.31	.01	0
14	.89	7.6	1.7	2.8	2.9	2.7	2.0	2.1	.87	.31	.01	0
15	.85	2.5	1.7	2.7	2.9	6.4	2.0	2.4	.77	.27	.01	0
16	.82	1.8	1.9	2.7	3.0	45	1.9	2.2	.86	.23	.01	0
17	.73	1.7	2.0	2.7	3.0	14	1.8	2.0	.86	.17	0	0
18	.81	1.6	1.6	2.6	3.1	7.4	1.8	1.8	.87	.17	0	0
19	.73	1.7	1.4	2.5	3.1	5.2	1.7	2.0	.87	.16	0	0
20	.71	1.7	1.7	2.4	2.2	4.2	1.6	2.0	.86	.16	0	.03
21	.69	1.7	1.8	2.4	2.4	3.6	1.5	1.9	.91	.15	0	.27
22	.68	1.7	2.0	2.4	5.1	3.0	1.4	2.0	.94	.15	0	.23
23	.71	1.8	2.2	2.4	4.6	2.7	1.3	1.9	.85	.14	0	.20
24	.62	1.8	2.5	2.4	4.8	2.8	1.3	1.9	.74	.13	0	.22
25	.75	1.8	2.7	2.2	3.6	3.3	1.3	2.2	.57	.12	0	.23
26	.77	1.8	2.9	2.2	3.0	2.9	1.2	2.3	.52	.10	0	.23
27	.76	2.4	2.8	2.2	2.7	2.4	1.3	1.9	.39	.09	0	.23
28	.74	2.6	2.6	2.2	2.6	2.1	1.3	1.7	.35	.09	0	.24
29	.76	2.8	2.6	2.2	---	2.2	1.5	1.6	.31	.08	0	.28
30	.78	2.1	4.5	2.1	---	2.0	1.7	1.5	.31	.07	0	.32
31	.80	---	5.5	2.1	---	1.9	---	1.3	---	.06	0	---
TOTAL	28.55	53.54	71.3	99.7	81.7	142.0	57.8	62.1	23.40	6.34	.38	2.48
MEAN	.92	1.78	2.30	3.22	2.92	4.58	1.93	2.00	.78	.20	.012	.083
MAX	2.1	7.6	5.5	17	5.1	45	2.7	2.5	1.3	.31	.05	.32
MIN	.62	.73	1.4	2.1	2.1	1.7	1.2	1.3	.31	.06	0	0
AC-FT	57	106	141	198	162	282	115	123	46	13	.8	4.9

CAL YR 1976 TOTAL 1205.67 MEAN 3.29 MAX 44 MIN .45 AC-FT 2390
WTR YR 1977 TOTAL 629.29 MEAN 1.72 MAX 45 MIN 0 AC-FT 1250

11162500 PESCADERO CREEK NEAR PESCADERO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1965 to current year,
SEDIMENT RECORDS: Water years 1971, 1973.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1965 to current year.

INSTRUMENTATION.--Temperature recorder since April 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 22.5°C June 27, 1973; minimum recorded, 2.0°C Dec. 19, 1965.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 20.0°C June 25-27, June 29 to July 1; minimum, 3.5°C Dec. 27, 28, Jan. 16.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
JUL 27...	1500	.09	1070	7.8	17.0	9.9	54	330	13	84	28	110

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
JUL 27...	42	2.7	5.4	380	0	310	68	140	.4	28	652	.89

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SUS-PENDED SOLIDS (MG/L)	VOL. NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
JUL 27...	.16	116	52	52	.09	.11	.62	.71	.26	790	40

11162500 PESCADERO CREEK NEAR PESCADERO, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	10.0	15.5	14.0	18.0	15.0	20.0	17.0	18.5	15.0	---	---
2	14.5	9.5	16.5	12.5	18.0	13.0	19.0	16.5	18.0	16.0	---	---
3	14.5	9.5	15.0	13.5	17.0	12.5	19.0	16.0	17.0	16.0	---	---
4	15.0	10.0	16.0	12.5	19.5	13.5	17.5	15.5	17.5	16.0	---	---
5	15.5	11.5	15.0	13.0	19.5	14.5	18.5	15.0	17.0	16.0	---	---
6	16.0	11.5	15.0	11.5	19.5	15.5	19.0	14.5	17.0	16.0	---	---
7	13.0	12.0	13.5	11.0	19.5	16.0	19.0	15.5	16.5	15.5	---	---
8	13.5	12.0	12.5	11.0	17.5	15.5	19.5	15.5	16.5	15.5	---	---
9	15.0	11.5	12.0	11.5	15.5	14.5	18.0	16.0	16.5	15.5	---	---
10	15.0	10.5	13.0	11.5	16.5	14.5	18.5	15.0	17.5	15.5	---	---
11	15.5	12.0	12.5	11.5	17.5	14.5	18.5	15.0	16.5	16.0	---	---
12	16.0	10.5	13.5	11.0	16.5	14.5	18.5	16.0	16.5	15.5	---	---
13	15.0	11.5	13.5	11.5	15.0	14.0	18.5	16.0	16.5	15.5	---	---
14	15.5	10.5	15.0	12.5	17.0	14.0	19.0	15.5	17.0	15.5	---	---
15	15.5	10.0	16.0	12.5	18.5	14.5	19.0	15.5	17.0	15.0	---	---
16	16.0	11.0	15.0	12.5	18.0	15.0	18.5	15.5	16.5	15.0	---	---
17	15.5	10.5	16.0	11.5	17.0	15.5	19.0	15.5	---	---	---	---
18	15.0	10.0	14.5	12.5	16.5	15.0	19.5	16.0	---	---	---	---
19	15.5	9.5	17.0	13.0	15.0	14.0	19.5	16.5	---	---	---	---
20	15.0	9.5	17.5	13.5	18.0	13.5	18.0	15.5	---	---	18.5	16.0
21	14.5	9.5	15.5	14.0	19.5	14.5	18.0	14.5	---	---	18.0	14.5
22	14.5	9.5	14.5	13.5	19.5	15.0	18.0	14.5	---	---	17.5	14.0
23	15.0	9.5	15.0	12.5	19.5	15.5	17.5	16.0	---	---	17.5	14.0
24	14.0	10.5	16.5	13.0	19.0	15.0	16.5	15.5	---	---	17.5	16.0
25	15.5	12.0	16.0	12.5	20.0	16.0	17.0	15.5	---	---	17.0	13.5
26	15.0	12.0	15.5	13.5	20.0	16.0	17.0	14.0	---	---	17.5	15.5
27	15.5	12.0	17.0	12.5	20.0	16.0	17.0	13.5	---	---	18.5	16.5
28	15.5	10.5	17.0	12.5	19.5	15.0	16.5	13.5	---	---	18.5	17.5
29	16.0	13.0	17.5	12.5	20.0	16.0	18.0	13.0	---	---	18.5	17.0
30	16.0	13.5	18.0	12.5	20.0	16.5	18.5	14.0	---	---	18.0	15.0
31	---	---	18.5	13.0	---	---	---	---	---	---	---	---
MONTH	16.0	9.5	18.5	11.0	20.0	12.5	20.0	13.0	---	---	---	---

11162570 SAN GREGORIO CREEK AT SAN GREGORIO, CA

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

DRAINAGE AREA.--50.9 mi^2 (131.8 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 11.40 ft (3.475 m) above mean sea level.

REMARKS.--Records fair except those for periods of no gage-height record Oct. 23 to Nov. 24, Mar. 7 to Apr. 5, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--8 years, 34.3 ft^3/s (0.971 m^3/s), 24,850 acre-ft/yr (30.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,730 ft^3/s (106 m^3/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, not determined, occurred Mar. 16, gage height, unknown, no peak above base of 1,000 ft^3/s (28 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	.28	.82	3.5	1.5	2.0	1.7	1.2	.45	.02		
2	2.2	.29	.84	3.8	1.5	1.8	1.8	1.9	.44	.05		
3	1.4	.27	.79	24	1.4	1.8	1.6	1.7	.46	.09		
4	.79	.25	.79	7.9	1.3	1.9	1.4	1.5	.38	.09		
5	.49	.26	.79	4.2	1.3	1.8	1.3	1.3	.38	.07		
6	.40	.26	.79	3.2	1.4	1.7	1.3	.96	.45	.04		
7	.37	.27	.77	2.6	1.4	1.7	1.0	.98	.44	.03		
8	.38	.28	.83	2.6	1.8	1.8	1.3	2.0	.40	.11		
9	.39	.29	.93	2.4	2.6	2.0	1.4	2.1	.34	.17		
10	.35	.30	.84	2.2	2.5	2.2	1.4	2.5	.23	.19		
11	.35	.70	.94	2.2	1.9	2.1	1.3	2.5	.25	.16		
12	.35	.63	1.2	2.2	1.7	2.6	1.3	2.8	.14	.08		
13	.33	.50	1.3	2.2	1.7	2.4	1.1	2.3	.34	0		
14	.29	2.2	1.3	2.1	1.7	2.2	.93	1.8	.50	0		
15	.30	1.3	1.4	2.1	1.7	19	.65	1.6	.55	0		
16	.29	1.0	1.5	2.0	1.7	17	.73	1.5	.61	0		
17	.30	.86	1.6	1.9	1.7	5.0	.84	1.2	.59	0		
18	.32	.82	1.6	1.8	1.7	3.0	.71	1.1	.49	0		
19	.30	.86	1.7	1.7	1.7	1.8	.60	1.1	.49	0		
20	.29	.90	1.7	1.5	1.7	1.5	.71	1.0	.49	0		
21	.29	.90	1.7	1.5	3.3	1.4	.77	.99	.53	0		
22	.29	.89	1.7	1.5	5.9	1.3	.76	1.1	.50	0		
23	.29	.90	1.9	1.5	4.5	1.2	.76	1.3	.39	0		
24	.29	.92	1.9	1.5	4.3	2.0	.76	1.4	.37	0		
25	.29	.96	1.9	1.5	3.1	1.6	.84	1.3	.39	0		
26	.29	.99	2.1	1.5	2.5	1.5	.86	1.2	.33	0		
27	.29	.91	2.1	1.5	2.3	1.4	1.1	1.1	.27	0		
28	.28	.75	2.1	1.5	2.1	1.5	.80	.87	.24	0		
29	.25	.72	2.1	1.5	---	1.6	.75	.66	.19	0		
30	.23	.76	5.0	1.5	---	1.7	1.0	.61	.09	0		
31	.27	---	7.8	1.5	---	1.8	---	.51	---	0		---
TOTAL	14.35	21.22	52.73	92.6	61.9	92.3	31.47	44.08	11.72	1.10	0	0
MEAN	.46	.71	1.70	2.99	2.21	2.98	1.05	1.42	.39	.036	0	0
MAX	2.2	2.2	7.8	24	5.9	19	1.8	2.8	.61	.19	0	0
MIN	.23	.25	.77	1.5	1.3	1.2	.60	.51	.09	0	0	0
AC-FT	28	42	105	184	123	183	62	87	23	2.2	0	0

CAL YR 1976 TOTAL 819.43 MEAN 2.24 MAX 27 MIN .01 AC-FT 1630
WTR YR 1977 TOTAL 423.47 MEAN 1.16 MAX 24 MIN 0 AC-FT 840

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, on left bank 0.2 mi (0.3 km) downstream from State Highway 1, 0.5 mi (0.8 km) northwest of town of Half Moon Bay, and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--27.2 mi^2 (70.4 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 23.59 ft (7.190 m) above mean sea level.

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

AVERAGE DISCHARGE (unadjusted).--11 years, 13.0 ft^3/s (0.368 m^3/s), 9,420 acre-ft/yr (11.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,290 ft^3/s (36.5 m^3/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, 199 ft^3/s (5.64 m^3/s) Dec. 30, gage height, 4.46 ft (1.359 m), no peak above base of 200 ft^3/s (5.7 m^3/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	0	1.2	.39	.56	.37	0				
2		0	0	27	.40	.57	.50	0				
3		0	0	17	.47	.48	.27	0				
4		0	0	4.3	.56	.44	.12	0				
5		0	0	2.7	.47	.29	.17	0				
6		0	0	2.1	.52	.36	.10	0				
7		0	0	1.7	.49	.35	0	0				
8		0	0	1.5	1.9	.19	.11	.02				
9		0	0	1.3	.85	.74	.22	0				
10		0	0	1.3	.70	.36	.27	0				
11		0	0	1.3	.59	.19	.07	.08				
12		0	0	1.9	.50	.41	0	.12				
13		0	0	1.1	.46	.49	0	.05				
14		.07	0	1.1	.52	.25	0	.01				
15		0	0	1.1	.41	16	0	.01				
16		0	0	1.0	.47	16	0	0				
17		0	0	.88	.33	4.9	0	0				
18		0	0	.96	.13	3.4	0	0				
19		0	0	.95	.21	2.6	0	0				
20		0	0	.85	.44	2.4	0	0				
21		0	0	.77	2.3	2.0	0	0				
22		0	0	.61	.90	1.5	0	0				
23		0	0	.64	1.3	1.6	0	0				
24		0	0	.60	.73	2.9	0	0				
25		0	0	.66	.57	1.8	0	0				
26		0	0	.43	.53	1.6	0	0				
27		0	0	.31	.57	1.4	0	0				
28		0	0	.61	.65	1.2	0	0				
29		0	.21	.57	---	1.0	0	0				
30		0	18	.34	---	.95	0	0				
31		---	3.9	.31	---	.60	---	0	---			---
TOTAL	0	.07	22.11	77.09	18.36	67.53	2.20	.29	0	0	0	0
MEAN	0	.002	.71	2.49	.66	2.18	.073	.009	0	0	0	0
MAX	0	.07	18	27	2.3	16	.50	.12	0	0	0	0
MIN	0	0	0	.31	.13	.19	0	0	0	0	0	0
AC-FT	0	.1	44	153	36	134	4.4	.6	0	0	0	0
(†)	65	68	41	32	35	28	19	33	42	58	90	69

CAL YR 1976 TOTAL 186.63 MEAN .51 MAX 18 MIN 0 AC-FT 370 † 688
WTR YR 1977 TOTAL 187.65 MEAN .51 MAX 27 MIN 0 AC-FT 372 † 580

† 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, on left bank in Orange Memorial Park, 1.0 mi (1.6 km) southwest of South San Francisco Post Office.

DRAINAGE AREA.--10.8 mi^2 (28.0 km^2).

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) above mean sea level. 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 Mt., altitude, 930 ft (283 m) at site 2.7 mi (4.3 km) northwest of gaging station.

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

AVERAGE DISCHARGE.--14 years, 6.76 ft^3/s (0.191 m^3/s), 4,900 acre-ft/yr (6.04 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,880 ft^3/s (81.6 m^3/s) Jan. 16, 1973, gage height, 11.80 ft (3.597 m); no flow Oct. 5, 26, 1963.

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

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 11	0620	712	20.2	6.83	2.082	Jan. 2	1600	*2010	56.9	10.37	3.161
Dec. 30	1330	886	25.1	7.37	2.246	Sept. 19	0600	1120	31.7	8.04	2.451

Minimum daily discharge, 0.14 ft^3/s (0.004 m^3/s) Sept. 14-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	.73	.53	18	.43	.59	.59	1.1	.59	.64	1.1	.36
2	.98	.73	.60	144	.43	.59	.59	.59	.59	.84	.80	.30
3	.80	.61	.59	13	.43	.59	.59	2.1	.59	.59	.80	.30
4	1.0	.68	.59	1.9	.43	.59	.59	.59	.61	.59	.59	.30
5	.88	.86	.59	1.1	.43	.59	.59	.59	.59	.59	.59	.32
6	.80	.68	.59	.80	.43	.59	.59	.59	.61	.60	.80	.30
7	.80	.67	1.4	.59	.71	.59	.59	.62	.59	.59	.80	.30
8	.80	.68	2.3	.59	20	.59	.84	13	.59	.59	.80	.41
9	.80	.60	.80	.59	1.1	8.2	.70	1.9	.59	.59	.72	.36
10	.80	.59	.80	.59	.80	.59	.59	1.8	.65	.59	.73	.37
11	.80	49	2.1	.59	.59	.59	.59	.80	.59	.80	.82	.29
12	.85	.59	2.9	.80	.59	6.3	.59	.59	.60	.59	.84	.21
13	.80	8.5	2.7	.59	.59	3.8	.59	.59	.82	.59	1.1	.21
14	.80	29	3.2	.59	.59	.70	.59	.59	.61	.59	1.1	.14
15	.80	.65	2.1	1.1	.59	131	.59	.59	.59	.59	1.0	.14
16	.80	.59	1.1	.85	.59	13	.43	.59	.59	.59	.80	.14
17	1.1	.59	2.1	.80	.59	.80	.43	.59	.83	.64	.59	3.0
18	.83	.59	2.1	.80	.59	.72	.43	2.5	.59	.59	.59	1.5
19	.93	.59	.80	.59	.59	.59	.43	.80	.59	.59	.59	32
20	1.3	.59	1.1	.59	9.5	.59	.43	.59	.60	.59	.52	.59
21	2.2	.63	1.5	.59	24	.59	.43	.72	.59	.59	.59	.59
22	1.6	.59	1.2	.59	1.2	.64	.59	.59	.59	.59	.71	.59
23	1.1	.47	1.1	.59	5.3	13	.80	.59	.64	.43	1.0	.43
24	1.3	.50	1.1	.59	.80	18	1.1	.59	.68	.59	2.2	.43
25	.92	.63	.89	.59	.67	.80	2.7	.59	.59	.59	1.6	.43
26	.64	.74	.80	.59	.59	.72	.59	1.9	.60	.59	1.2	.43
27	.70	.59	.80	.43	.59	.59	.59	.59	.59	.50	1.0	.96
28	.70	.43	.59	.43	.59	.59	.43	.59	.59	.75	1.0	3.2
29	.76	.43	26	.43	---	.59	.43	.59	.60	.80	.80	2.5
30	.63	.54	139	.43	---	.59	.43	.59	.66	.80	.59	.30
31	.77	---	1.3	.43	---	.59	---	.59	---	1.1	.59	---
TOTAL	55.99	103.07	203.27	194.15	73.74	208.30	19.45	39.04	18.54	19.70	26.96	51.40
MEAN	1.81	3.44	6.56	6.26	2.63	6.72	.65	1.26	.62	.64	.87	1.71
MAX	28	49	139	144	24	131	2.7	13	.83	1.1	2.2	32
MIN	.63	.43	.53	.43	.43	.59	.43	.59	.59	.43	.52	.14
AC-FT	111	204	403	385	146	413	39	77	37	39	53	102
(†)	.36	.83	1.45	1.36	.58	1.85	.06	.43	.06	.04	.06	.27
(‡)	.49	1.68	2.66	2.41	1.29	3.01	.12	.63	.10	.05	.10	1.21

CAL YR 1976 TOTAL 997.37 MEAN 2.73 MAX 139 MIN .13 AC-FT 1980
WTR YR 1977 TOTAL 1013.61 MEAN 2.78 MAX 144 MIN .14 AC-FT 2010

† Precipitation, in inches, at San Bruno Mt. gage.
‡ Precipitation, in inches, at Skyline College gage.

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-77.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1970-76.
SEDIMENT RECORDS: Water years 1966-76.

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).

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
JUL 27...	1030	.30	1130	8.7	19.0	10.8	60	510	160	90	70	110

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
JUL 27...	31	2.1	9.9	380	24	340	190	150	.5	22	890	1.21

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)	SUSPENDED SOLIDS (MG/L)	VOL. NONFILTRABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
JUL 27...	.72	85	16	61	9.8	8.1	7.8	18	1.0	190	40

11162800 REDWOOD CREEK AT REDWOOD CITY, CA

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

DRAINAGE AREA.--1.82 mi^2 (4.71 km^2).

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

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 83.92 ft (25.579 m) above mean sea level.

REMARKS.--Records good except those for period of no gage-height record, Oct. 1 to Nov. 2, which are fair. Low flow at times affected by return flow from urban irrigation.

AVERAGE DISCHARGE.--18 years, 1.00 ft^3/s (0.028 m^3/s), 724 acre-ft/yr (893,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 644 ft^3/s (18.2 m^3/s) Jan. 31, 1963, gage height, 9.36 ft (2.853 m), from rating curve extended above 180 ft^3/s (5.10 m^3/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, 42 ft^3/s (1.19 m^3/s) Jan. 2, gage height, 2.60 ft (0.792 m), no peak above base of 100 ft^3/s (2.8 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	.03	.05	.09	.01	.02	.03	.32	.01	0	0	0
2	.03	.02	.02	5.2	.02	.01	.03	.01	.01	0	0	0
3	.02	.02	.02	1.6	.01	.01	.03	.01	.01	0	0	0
4	.02	.02	.03	.16	.02	.01	.03	.01	.02	0	0	0
5	.02	.02	.02	.14	.02	.01	.03	.01	.03	0	0	0
6	.02	.02	.02	.06	.01	.01	.03	.01	.02	0	0	0
7	.03	.03	.02	.04	.02	.01	.02	.20	.02	0	0	0
8	.03	.03	.03	.03	.38	.01	.02	.56	.02	0	0	0
9	.03	.01	.03	.03	.07	.11	.02	.10	.03	0	0	0
10	.02	.03	.02	.03	.03	.01	.02	.01	.03	0	0	0
11	.02	1.7	.04	.03	.03	.01	.01	.02	.02	0	0	0
12	.03	.08	.01	.22	.02	.02	.01	.04	0	0	0	0
13	.03	.03	.02	.04	.02	.11	.01	.01	0	0	.03	0
14	.03	2.0	.02	.03	.02	.01	.01	.01	0	0	0	0
15	.02	.07	.02	.03	.02	6.9	.01	.01	0	0	0	0
16	.02	.03	.03	.03	.03	2.0	.01	.01	0	0	0	0
17	.03	.06	.03	.03	.03	.18	.01	.01	.01	0	0	0
18	.03	.03	.04	.03	.02	.09	.01	.01	.01	0	0	0
19	.03	.03	.03	.04	.02	.06	.01	.01	.01	0	0	.71
20	.03	.03	.03	.04	.04	.05	.01	.01	.02	0	0	0
21	.04	.03	.03	.04	1.8	.05	.01	.01	0	0	0	0
22	.03	.04	.04	.04	.10	.05	.01	.01	0	0	0	0
23	.02	.03	.05	.04	.14	.07	.01	.19	0	0	.05	0
24	.04	.03	.05	.02	.06	.69	.01	.02	0	0	0	0
25	.02	.04	.19	.02	.02	.09	.01	.01	0	0	0	0
26	.04	.04	.01	.02	.02	.05	.01	.01	0	0	0	0
27	.03	.06	.02	.02	.01	.04	.01	.01	0	.01	0	0
28	.02	.07	.02	.01	.03	.04	.01	.01	0	.01	0	0
29	.02	.07	.44	.02	---	.04	.01	.01	0	.01	0	0
30	.02	.07	3.4	.02	---	.04	.01	.01	0	.01	0	0
31	.03	---	.26	.02	---	.03	---	.01	---	.07	0	---
TOTAL	4.80	4.77	5.04	8.17	3.02	10.83	.46	1.68	.27	.11	.08	.71
MEAN	.15	.16	.16	.26	.11	.35	.015	.054	.009	.004	.003	.024
MAX	4.0	2.0	3.4	5.2	1.8	6.9	.03	.56	.03	.07	.05	.71
MIN	.02	.01	.01	.01	.01	.01	.01	.01	0	0	0	0
AC-FT	9.5	9.5	10.0	16	6.0	21	.9	3.3	.5	.2	.2	1.4

CAL YR 1976 TOTAL 53.51 MEAN .15 MAX 10 MIN 0 AC-FT 106
WTR YR 1977 TOTAL 39.94 MEAN .11 MAX 6.9 MIN 0 AC-FT 79

11164500 SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CA

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

DRAINAGE AREA.--37.4 mi^2 (96.9 km^2).

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

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

REMARKS.--Records good. Flow regulated by Searsville Lake 5 mi (8 km) upstream, capacity, 952 acre-ft (1.17 hm^3). Diversions of about 800 acre-ft (986,000 m^3) 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.--38 years, 17.9 ft^3/s (0.507 m^3/s), 12,970 acre-ft/yr (16.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,560 ft^3/s (157 m^3/s) Dec. 22, 1955, gage height, 13.60 ft (4.145 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 82 ft^3/s (2.32 m^3/s) Mar. 15, gage height, 1.66 ft (0.506 m), no peak above base of 700 ft^3/s (20 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	.08	.21	.74	.14	.16	.05	.14				
2	.48	.10	.18	9.8	.14	.12	.04	.14				
3	.32	.12	.16	10	.14	.14	.04	.10				
4	.19	.12	.30	1.7	.16	.14	.04	.02				
5	.34	.14	.39	.70	.18	.10	.03	.02				
6	.35	.22	.32	.45	.21	.11	.03	.02				
7	.19	.22	.39	.31	.21	.77	.03	.04				
8	.24	.17	.32	.24	.55	.11	.04	.70				
9	.37	.20	.38	.22	.52	.30	.06	.64				
10	.34	.33	.47	.18	.40	.18	.07	.18				
11	.41	1.6	.42	.18	.34	.16	.09	.10				
12	.34	.38	.37	.25	.25	.18	.07	.08				
13	.23	.26	.33	.19	.28	.50	.08	.06				
14	.16	2.1	.34	.16	.24	.16	.11	.04				
15	.07	.42	.35	.14	.28	18	.12	.03				
16	.05	.25	.53	.14	.31	21	.15	.03				
17	.06	.15	.60	.15	.33	2.2	.14	.02				
18	.09	.22	.56	.17	.23	.69	.11	.02				
19	.09	.31	.52	.17	.14	.36	.08	.02				
20	.10	.30	.67	.15	.25	.24	.08	.04				
21	.10	.29	.43	.18	2.7	.14	.11	.02				
22	.10	.27	.63	.17	1.4	.14	.11	.02				
23	.13	.22	1.0	.25	.85	.13	.12	.02				
24	.19	.14	1.2	.08	1.0	.49	.11	.06				
25	.18	.14	1.2	.17	.45	.49	.24	.04				
26	.22	.21	1.4	.21	.22	.25	.25	.02				
27	.41	.16	1.4	.18	.18	.15	.24	.01				
28	.11	.14	1.5	.27	.16	.09	.14	.01				
29	.06	.16	.95	.17	---	.08	.11	.01				
30	.11	.19	5.8	.14	---	.08	.11	.01				
31	.08	---	1.6	.14	---	.07	---	0	---			---
TOTAL	8.51	9.61	24.92	28.00	12.26	47.73	3.00	2.66	0	0	0	0
MEAN	.27	.32	.80	.90	.44	1.54	.10	.086	0	0	0	0
MAX	2.4	2.1	5.8	10	2.7	21	.25	.70	0	0	0	0
MIN	.05	.08	.16	.08	.14	.07	.03	0	0	0	0	0
AC-FT	17	19	49	56	24	95	6.0	5.3	0	0	0	0
(†)	.33	1.02	.71	1.46	.52	1.70	.02	1.07	0	.08	0	.43

CAL YR 1976 TOTAL 191.96 MEAN .52 MAX 21 MIN 0 AC-FT 381
WTR YR 1977 TOTAL 136.69 MEAN .37 MAX 21 MIN 0 AC-FT 271

† 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, 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.--7.24 mi^2 (18.75 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 22.07 ft (6.727 m) above mean sea level. Prior to Sept. 25, 1958, at site 150 ft (46 m) downstream at different datum.

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

AVERAGE DISCHARGE.--25 years, 1.74 ft^3/s (0.049 m^3/s), 1,260 acre-ft/yr (1.55 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft^3/s (31.2 m^3/s) Feb. 27, 1973, gage height, 5.57 ft (1.698 m), from rating curve extended above 150 ft^3/s (4.25 m^3/s) on basis of step-backwater computations at gage heights 3.68 ft (1.122 m) and 5.33 ft (1.625 m); maximum gage height, 9.88 ft (3.011 m) Dec. 23, 1955, site and datum then in use (backwater from culvert); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 114 ft^3/s (3.23 m^3/s) Jan. 2, gage height, 1.68 ft (0.512 m), no peak above base of 200 ft^3/s (5.7 m^3/s); no flow for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	.17	.13	.90	.09	.09	.05	.91	.07	.06	.04	.05
2	.15	.12	.35	19	.06	.04	.05	.07	.07	2.1	.06	.04
3	.12	.09	.11	6.8	.08	.04	.07	.09	.08	.07	.06	.04
4	.11	.11	.13	.35	.04	.04	.08	.08	.05	.06	.03	.05
5	.09	.14	.13	.31	.06	.04	.04	.07	.09	.06	.06	.04
6	.13	.15	.10	.20	.05	.02	.04	.05	.11	.04	.06	.05
7	.13	.15	.11	.15	.04	.03	.06	3.6	.11	.04	.06	.03
8	.13	.13	.12	.15	.84	.03	.09	4.8	.11	.03	.04	.02
9	.17	.14	.11	.15	.12	.99	.03	1.2	.10	.01	.04	.01
10	.17	.13	.13	.15	.05	.05	.03	.10	.08	.01	.03	0
11	.13	7.6	.10	.15	.04	.07	.06	6.4	.07	.01	.03	.01
12	.15	.56	.11	.28	.06	.14	.07	.49	.09	.08	.04	.02
13	.16	.25	.10	.11	.05	1.3	.10	.05	.10	.03	.03	.07
14	.16	5.2	.11	.04	.06	.14	.04	.05	.10	.04	.03	.03
15	.14	.12	.11	.04	.07	22	.05	.03	.10	.04	.03	0
16	.17	.10	.11	.04	.08	8.2	.07	.11	.09	.05	.03	.03
17	.14	.08	.11	.04	.05	.46	.09	.14	.08	.08	.04	.04
18	.17	.08	.11	.07	.04	.14	.10	.28	.09	.04	.05	.03
19	.17	.09	.10	.09	.05	.05	.08	.16	.11	.04	.04	2.4
20	.13	.10	.11	.07	.49	.04	.06	.03	.09	.04	.04	.01
21	.18	.10	.11	.12	5.0	.05	.04	.04	.07	.04	.04	0
22	.20	.10	.13	.13	.14	.05	.08	.07	.08	.03	.04	0
23	.15	.15	.14	.12	.63	.10	.10	.32	.11	.07	.05	.01
24	.14	.18	.11	.09	.05	1.1	.03	.09	.09	.06	.04	0
25	.12	.09	.11	.11	.07	.07	.03	.09	.09	.06	.03	0
26	.16	.11	.14	.13	.04	.04	.03	.10	.10	.06	.04	.02
27	.19	.08	.14	.11	.05	.03	.03	.09	.11	.04	.04	.04
28	.11	.09	.14	.12	.09	.04	.07	.07	.07	.02	.06	.11
29	.14	.12	2.0	.10	---	.05	.07	.07	.07	.07	.03	.07
30	.15	.10	13	.10	---	.15	.05	.08	.07	.08	.03	.05
31	.12	---	.84	.10	---	.06	---	.10	---	.04	.05	---
TOTAL	8.38	16.63	19.35	30.32	8.49	35.65	1.79	19.83	2.65	3.50	1.29	3.27
MEAN	.27	.55	.62	.98	.30	1.15	.060	.64	.088	.11	.042	.11
MAX	4.0	7.6	13	19	5.0	22	.10	6.4	.11	2.1	.06	2.4
MIN	.09	.08	.10	.04	.04	.02	.03	.03	.05	.01	.03	0
AC-FT	17	33	38	60	17	71	3.6	39	5.3	6.9	2.6	6.5

CAL YR 1976 TOTAL 151.00 MEAN .41 MAX 13 MIN .07 AC-FT 300
WTR YR 1977 TOTAL 151.15 MEAN .41 MAX 22 MIN 0 AC-FT 300

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, at center of dam on Stevens Creek, 2.0 mi (3.2 km) southwest of Monte Vista.

DRAINAGE AREA.--17.3 mi^2 (44.8 km^2).

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 at mean sea level (levels by Santa Clara Valley Water District).

REMARKS.--Reservoir is formed by earthfill dam completed in 1936. Capacity, 3,600 acre-ft (4.44 hm^3) 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 (AT 0800) FOR PERIOD OF RECORD.--Maximum contents observed, 4,100 acre-ft (5.06 hm^3) 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 (AT 0800) FOR CURRENT YEAR.--Maximum contents observed, 330 acre-ft (407,000 m^3) Mar. 23, elevation, 476.70 ft (145.298 m); no contents Oct. 1 to Jan. 2, June 22 to Sept. 30.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Contents
Sept. 30, 1976	0
Oct. 31	0
Nov. 30	0
Dec. 31	0
Jan. 31, 1977	126
Feb. 28	180
Mar. 31	309
Apr. 30	222
May 31	192
June 30	0
July 31	0
Aug. 31	0
Sept. 30	0

NOTE.--Contents at 0800 on first day of following month.

RESERVOIRS IN GUADALUPE RIVER BASIN, CA

11166670 ALMADEN RESERVOIR.--Lat 37°09'54", long 121°49'39", in San Vicente Grant, Santa Clara County, 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, 11.9 mi^2 (30.8 km^2). 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 at mean sea level (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill dam completed in 1936. Capacity, 1,780 acre-ft (2.19 hm^3) between elevations 533.1 ft (162.49 m), invert of outlet tunnel and 606.9 ft (184.98 m), crest of spillway. Water released down Alamitos Creek for ground-water recharge by percolation and minor irrigation. Up to 100 ft^3/s (2.83 m^3/s) diverted to Calero Reservoir at times. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 2,150 acre-ft (2.65 hm^3) 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, 136 acre-ft (168,000 m^3) Apr. 4-8, elevation, 555.43 ft (169.295 m); no contents Oct. 1 to Jan. 2; May 17 to Sept. 30.

11166740 CALERO RESERVOIR.--Lat 37°11'00", long 121°47'28", in San Vicente Grant, Santa Clara County, 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, 6.96 mi^2 (18.03 km^2). 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 at mean sea level (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill dam completed to crest elevation 482.55 ft (147.081 m) in 1936 and raised to 483.5 ft (147.37 m) in 1962. Capacity, 10,160 acre-ft (12.5 hm^3) between elevations 393.7 ft (120.00 m), center of outlet tunnel and 483.5 ft (147.37 m), crest of spillway. Water released down Arroyo Calero for ground-water recharge by percolation and minor irrigation. Up to 100 ft^3/s (2.83 m^3/s) diverted from Almaden Reservoir to Calero Reservoir at times. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 10,520 acre-ft (13.0 hm^3) Apr. 7, 1967, elevation, 485.21 ft (147.892 m); no contents at times in each year except 1942-45, 1963-77.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 2,580 acre-ft (3.18 hm^3) Oct. 1, elevation, 451.15 ft (137.511 m); minimum observed, 299 acre-ft (369,000 m^3) Sept. 30, elevation, 419.23 ft (127.781 m).

11167370 GUADALUPE RESERVOIR.--Lat 37°11'57", long 121°52'42", in Los Capitancillos Grant, Santa Clara County, 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, 5.97 mi^2 (15.5 km^2). 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 at mean sea level (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill dam completed in 1936. Capacity, 3,740 acre-ft (4.61 hm^3) 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 observed, 3,750 acre-ft (4.62 hm^3) Apr. 4, 1974, elevation, 617.38 ft (188.177 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, 1974-77.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 220 acre-ft (271,000 m^3) June 13-16, elevation, 539.37 ft (164.400 m); minimum observed, 93 acre-ft (115,000 m^3) Oct. 1, elevation, 529.70 ft (161.453 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, at center of Austrian Dam on Los Gatos Creek, and 7.3 mi (11.7 km) southeast of Los Gatos. DRAINAGE AREA, 9.79 mi^2 (25.4 km^2). 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 at mean sea level (levels by San Jose Water Works).

Reservoir is formed by earthfill dam completed in 1951; topped by a 2-foot (0.6-m) inflatable surcharge dam since 1956. Usable capacity, 6,280 acre-ft (7.74 hm^3) between elevations 944 ft (287.7 m), elevation of outlet gates and 1,112 ft (338.9 m), top of 2-foot (0.6-m) inflatable surcharge dam. Dead storage, 60 acre-ft (74,000 m^3). Water released down Los Gatos Creek for domestic and industrial use. Record of contents furnished by San Jose Water Works.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 6,640 acre-ft (8.19 hm^3) 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, 967 acre-ft (1.19 hm^3) June 5, elevation, 1,032.5 ft (314.706 m); minimum observed, 417 acre-ft (514,000 m^3) Sept. 30, elevation, 1,014.0 ft (309.067 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, at center of dam on Los Gatos Creek, and 1.7 mi (2.7 km) south of Los Gatos. DRAINAGE AREA, 37.0 mi^2 (95.8 km^2). PERIOD OF RECORD, December 1952 to current year. Monthly contents prior to October 1959, published in WSP 1735. GAGE, nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District).

Reservoir is formed by earthfill dam completed in 1952. Capacity, 20,210 acre-ft (24.9 hm^3) between elevations 519 ft (158.2 m), invert at outlet tunnel and 649.9 ft (198.09 m), crest of spillway. Dead storage, 31 acre-ft (38,200 m^3). 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 hm^3) 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, 697 acre-ft (859,000 m^3) Jan. 17, elevation, 548.00 ft (167.030 m); no contents Jan. 25 to Mar. 10, July 29 to Sept. 30.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Almaden Reservoir a	Calero Reservoir a	Guadalupe Reservoir a	Lake Elsman b	Lexington Reservoir a
Sept. 30, 1976.....	0	2580	93	485	452
Oct. 31.....	0	2520	96	528	400
Nov. 30.....	0	1720	96	556	430
Dec. 31.....	0	1190	96	654	515
Jan. 31, 1977.....	101	1180	128	721	0
Feb. 28.....	98	1160	148	773	0
Mar. 31.....	135	1050	190	847	401
Apr. 30.....	92	929	203	893	460
May 31.....	0	831	219	961	512
June 30.....	0	656	217	841	364
July 31.....	0	427	210	669	0
Aug. 31.....	0	353	195	485	0
Sept. 30.....	0	299	188	417	0

a Contents at 0800 on first day of following month.
b Contents at 0800 on last day of month.

11169000 GUADALUPE RIVER AT SAN JOSE, CA

LOCATION.--Lat 37°20'04", long 121°53'54", Santa Clara County, on right bank at San Jose, 100 ft (30 km) downstream from Los Gatos Creek.

DRAINAGE AREA.--144 mi^2 (373 km^2).

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) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair. Flow regulated by Lexington Reservoir 12 mi (19 km) upstream and Calero, Almaden, Guadalupe Reservoirs, and Lake Elsman given elsewhere in this report, with water released during summer for percolation in spreading basins on tributaries. During current year, 685 acre-ft (845,000 m^3) was diverted by San Jose Water Works for urban use and zero acre-ft (zero m^3) 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 ft^3/s (259 m^3/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, 737 ft^3/s (20.9 m^3/s) Jan. 2, gage height, 3.41 ft (1.039 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	.18	.22	1.7	.26	.15	.17	3.4	.10	0		0
2	28	.28	.20	120	.25	.11	.16	1.7	.04	1.6		0
3	3.9	.27	.27	80	.23	.13	.14	.59	.09	.04		0
4	2.3	.27	.24	4.5	.27	.16	.08	.31	.05	0		0
5	2.1	.38	.23	1.8	.25	.16	.13	.24	0	.18		0
6	.50	.31	.24	8.1	.22	.12	.52	.33	0	0		0
7	.44	.33	.53	1.4	.29	.16	.17	8.6	0	0		0
8	.48	.42	.42	.44	.71	.22	.22	26	.13	.05		0
9	.44	.42	.41	.29	2.7	1.8	.17	12	.16	0		0
10	.30	.62	.34	.24	.67	.62	.15	2.4	.09	0		0
11	.52	47	.33	.26	.37	.67	.15	7.9	.08	0		0
12	.45	44	.29	3.0	.24	.33	.18	6.2	.02	0		0
13	.42	3.6	.25	1.8	.17	3.2	.15	1.9	0	0		0
14	.37	49	.28	.58	.17	2.1	.21	.62	0	0		0
15	1.0	3.6	.36	.29	.21	116	.21	.30	.05	0		0
16	.30	1.0	.42	.21	.27	93	.24	.17	.03	0		0
17	.27	.60	.32	.17	.30	2.3	.15	.17	.11	0		0
18	.32	.48	.31	.20	.26	.70	.31	.49	.04	0		0
19	.36	.43	.28	.22	.23	.28	.37	.45	0	0		29
20	.40	.41	.39	.18	.21	.16	.31	.19	0	0		3.6
21	.40	.29	.35	.18	4.5	.11	.19	.27	0	0		.65
22	.34	.25	.39	.17	2.6	.12	.18	.22	0	0		.23
23	.32	.27	.40	.15	15	.17	.21	.45	.04	0		.18
24	.27	.33	.37	.15	2.5	7.5	.16	.82	.05	0		.05
25	.27	.29	.35	.17	.43	6.2	.12	.21	.07	0		0
26	.26	.25	.38	.20	.20	1.7	.15	.20	0	0		0
27	.33	.22	.40	.23	.11	.62	.14	.16	0	0		0
28	.32	.23	.40	.22	.17	.39	.14	.12	0	0		0
29	.28	.32	2.6	.18	---	.31	.13	0	0	0		.03
30	.23	.21	162	.16	---	.22	.22	0	0	0		0
31	.17	---	21	.18	---	.21	---	0	---	0		---
TOTAL	145.06	156.26	194.97	227.37	33.79	239.92	5.83	76.41	1.15	1.87	0	33.74
MEAN	4.68	5.21	6.29	7.33	1.21	7.74	.19	2.46	.038	.060	0	1.12
MAX	99	49	162	120	15	116	.52	26	.16	1.6	0	29
MIN	.17	.18	.20	.15	.11	.11	.08	0	0	0	0	0
AC-FT	288	310	387	451	67	476	12	152	2.3	3.7	0	67

CAL YR 1976 TOTAL 2215.20 MEAN 6.05 MAX 262 MIN .07 AC-FT 4390
WTR YR 1977 TOTAL 1116.37 MEAN 3.06 MAX 162 MIN 0 AC-FT 2210

11169500 SARATOGA CREEK AT SARATOGA, CA

LOCATION.--Lat 37°15'16", long 122°02'18", in Quito Grant, Santa Clara County, on right bank on upstream side of private road bridge, 0.5 mi (0.8 km) southwest of Saratoga, and 0.7 mi (1.1 km) downstream from diversion dam.

DRAINAGE AREA.--9.22 mi^2 (23.88 km^2).

PERIOD OF RECORD.--October 1933 to current year. Prior to October 1951, published as Campbell Creek at Saratoga.

REVISED RECORDS.--WSP 1445: 1940, 1952(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder 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 good. Water is diverted for municipal use by San Jose Water Works at diversion dam above station.

AVERAGE DISCHARGE (adjusted for diversion).--44 years, 9.69 ft^3/s (0.274 m^3/s), 7,020 acre-ft/yr (8.66 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 50 ft^3/s (1.42 m^3/s) Mar. 15, gage height, 3.29 ft (1.003 m), no peak above base of 110 ft^3/s (3.1 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.25	.49	.89	.65	.63	.63	1.2	.31	.01		0
2	.44	.25	.49	11	.63	.63	.63	.89	.28	.04		0
3	.37	.23	.51	7.1	.63	.63	.53	.73	.25	.06		0
4	.34	.22	.53	2.3	.61	.58	.47	.67	.23	.04		0
5	.30	.20	.53	1.3	.58	.58	.49	.63	.19	.04		0
6	.28	.20	.53	1.1	.58	.58	.46	.63	.16	.03		0
7	.28	.21	.53	.89	.64	.61	.45	.60	.16	.02		0
8	.31	.23	.53	.86	.78	.63	.48	.84	.15	.01		0
9	.28	.23	.53	.86	.79	.72	.51	.90	.13	.01		0
10	.28	.25	.53	.72	.74	.77	.45	.77	.14	.02		0
11	.28	.57	.53	.69	.70	.74	.45	.78	.13	.01		0
12	.27	.50	.53	.79	.68	.92	.47	.87	.13	.01		0
13	.23	.37	.62	.74	.68	.79	.41	.67	.15	0		0
14	.23	1.8	.57	.74	.68	.74	.41	.63	.13	.01		0
15	.23	.52	.53	.74	.63	15	.41	.63	.11	.01		0
16	.23	.41	.53	.74	.58	13	.37	.63	.11	0		0
17	.24	.38	.53	.74	.58	3.2	.38	.59	.11	0		0
18	.25	.37	.53	.66	.61	.99	.41	.58	.11	0		0
19	.24	.41	.58	.63	.63	.74	.37	.57	.10	0		1.2
20	.25	.41	.58	.64	.65	.68	.34	.58	.09	0		.26
21	.23	.41	.58	.58	1.8	.63	.52	.58	.09	0		.18
22	.23	.41	.58	.58	1.0	.53	.63	.58	.06	0		.15
23	.23	.41	.58	.65	1.5	.63	.59	.54	.05	0		.14
24	.23	.43	.58	.66	1.1	.86	.63	.49	.04	0		.13
25	.23	.41	.58	.69	.86	.68	.72	.49	.03	0		.13
26	.23	.43	.58	.67	.80	.58	.63	.49	.04	0		.13
27	.23	.45	.58	.63	.79	.58	.59	.49	.02	0		.14
28	.22	.45	.58	.63	.63	.63	.58	.49	.03	0		.15
29	.20	.49	.84	.63	---	.63	.58	.45	.03	0		.16
30	.22	.49	4.1	.63	---	.68	.53	.41	.02	0		.16
31	.21	---	1.7	.65	---	.58	---	.36	---	0		---
TOTAL	8.29	12.39	22.01	41.13	21.53	50.17	15.12	19.76	3.58	.32	0	2.93
MEAN	.27	.41	.71	1.33	.77	1.62	.50	.64	.12	.010	0	.098
MAX	.50	1.8	4.1	11	1.8	15	.72	1.2	.31	.06	0	1.2
MIN	.20	.20	.49	.58	.58	.53	.34	.36	.02	0	0	0
AC-FT	16	25	44	82	43	100	30	39	7.1	.6	0	5.8
(†)	0	0	0	1.5	0	44	47	0	0	0	0	0

CAL YR 1976 TOTAL 135.82 MEAN .37 MAX 7.5 MIN .05 AC-FT 269 † 299
WTR YR 1977 TOTAL 197.23 MEAN .54 MAX 15 MIN 0 AC-FT 391 † 93

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

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CA

LOCATION.--Lat 37°16'09", long 122°03'36", in NE¼NE¼ sec.3, T.8 S., R.2 W., Santa Clara County, on right bank at upstream side of culvert on Mt. Eden Road, 750 ft (229 m) upstream from mouth, and 1.8 mi (2.9 km) northwest of Saratoga Post Office.

DRAINAGE AREA.--0.37 mi^2 (0.96 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

REVISED RECORDS.--WDR CA-75-2: 1973(P), 1974(M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 600 ft (183 m), from topographic map. Recording rain gage at Garrod Ranch 0.5 mi (0.8 km) north of gage. Altitude of gage is 950 ft (290 m), from topographic map.

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

AVERAGE DISCHARGE.--5 years, 0.26 ft^3/s (0.007 m^3/s), 188 acre-ft (232,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 107 ft^3/s (3.03 m^3/s) Feb. 1, 1975, gage height, 4.78 ft (1.457 m); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.2 ft^3/s (0.12 m^3/s) Mar. 15, gage height, 2.63 ft (0.802 m), no peak above base of 20 ft^3/s (0.6 m^3/s); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0		0		0				
2				.10		0		0				
3				.02		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		.03				
15				0		.51		0				
16				0		.06		0				
17				0		.01		0				
18				0		0		0				
19				0		0		0				
20				0		0		0				
21				0		0		0				
22				0		0		0				
23				0		0		0				
24				0		0		0				
25				0		0		0				
26				0		0		0				
27				0		0		0				
28				0		0		0				
29				0	---	0		0				
30				0	---	0		0				
31		---		0	---	0	---	0	---			---
TOTAL	0	0	0	.12	0	.58	0	.03	0	0	0	0
MEAN	0	0	0	.004	0	.019	0	.001	0	0	0	0
MAX	0	0	0	.10	0	.51	0	.03	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	.2	0	1.2	0	.06	0	0	0	0
(†)	.48	1.38	1.30	1.98	1.26	2.98	.06	1.38	0	.02	0	.99

CAL YR 1976 TOTAL 1.33 MEAN .0040 MAX .34 MIN 0 AC-FT 2.6
WTR YR 1977 TOTAL 0.73 MEAN .0020 MAX .51 MIN 0 AC-FT 1.4

† Precipitation, in inches, at Garrod Ranch gage.

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.
CHEMICAL ANALYSES: Water years 1972 to current year.
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.

REMARKS.--Sediment table omitted for periods of no flow Oct. 1 to Dec. 31, and July 1 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,320 mg/L Feb. 1, 1975; minimum daily mean, no flow for many days each year.
SEDIMENT DISCHARGE: Maximum daily, 400 tons (363 tonnes) Feb. 1, 1975; minimum daily, 0 tons (0 tonnes) on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 403 mg/L Mar. 15; minimum daily mean, no flow for many days.
SEDIMENT DISCHARGE: Maximum daily, 2.7 tons (2.4 tonnes) Mar. 15; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	SUSPENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAR									
15...	1935	1.4	725	8.5	340	150	430	16	1.2
15...	2135	.60	853	8.5	120	140	92	16	1.1

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
MAR									
15...	5.1	6.3	22	1.4	10	10	70	20	.0
15...	4.3	5.4	21	1.3	6	10	30	100	.1

DATE	TIME	POLYCHLORINATED NAPHTHALENES (UG/L)	TOTAL PCB (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLORDANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)
MAR								
15...	1935	.00	.0	.00	.0	.00	.01	.00

DATE	TOTAL DIAZINON (UG/L)	TOTAL DIELDRIN (UG/L)	TOTAL ENDOSULFAN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTACHLOR (UG/L)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)
MAR									
15...	.01	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL METHYL PARATHION (UG/L)	TOTAL METHYL TRITHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL TOXAPHENE (UG/L)	TOTAL TRITHION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
MAR								
15...	.00	.00	.00	0	.00	.07	.00	.00

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				---		---						
2				10.0		---						
3				10.0		---						
4				---		---						
5				---		---						
6				---		---						
7				---		---						
8				---		---						
9				---		---						
10				---		---						
11				---		---						
12				---		---						
13				---		---						
14				---		---						
15				---		8.5						
16				---		10.0						
17				---		12.0						
18				---		---						
19				---		---						
20				---		---						
21				---		---						
22				---		---						
23				---		---						
24				---		---						
25				---		---						
26				---		---						
27				---		---						
28				---		---						
29				---		---						
30				---		---						
31				---		---						
MONTH				---		---						

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	JANUARY			FEBRUARY			MARCH		
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	0	0	0				0	0	0
2	.10	387	.75				0	0	0
3	.02	106	.01				0	0	0
4	0	0	0				0	0	0
5	0	0	0				0	0	0
6	0	0	0				0	0	0
7	0	0	0				0	0	0
8	0	0	0				0	0	0
9	0	0	0				0	0	0
10	0	0	0				0	0	0
11	0	0	0				0	0	0
12	0	0	0				0	0	0
13	0	0	0				0	0	0
14	0	0	0				0	0	0
15	0	0	0				.51	403	2.7
16	0	0	0				.06	40	.01
17	0	0	0				.01	15	0
18	0	0	0				0	0	0
19	0	0	0				0	0	0
20	0	0	0				0	0	0
21	0	0	0				0	0	0
22	0	0	0				0	0	0
23	0	0	0				0	0	0
24	0	0	0				0	0	0
25	0	0	0				0	0	0
26	0	0	0				0	0	0
27	0	0	0				0	0	0
28	0	0	0				0	0	0
29	0	0	0				0	0	0
30	0	0	0				0	0	0
31	0	0	0				0	0	0
TOTAL	.12	---	.76	0	0	0	.58	---	2.71

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CA--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

		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				0	0				
2				0	0				
3				0	0				
4				0	0				
5				0	0				
6				0	0				
7				0	0				
8				0	0				
9				0	0				
10				0	0				
11				0	0				
12				0	0				
13				0	0				
14				.03	20				
15				0	0				
16				0	0				
17				0	0				
18				0	0				
19				0	0				
20				0	0				
21				0	0				
22				0	0				
23				0	0				
24				0	0				
25				0	0				
26				0	0				
27				0	0				
28				0	0				
29				0	0				
30				0	0				
31				0	0				
TOTAL	0	0	0	.03	---	0	0	0	0
YEAR	0.73		3.47						

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL SEDI-MENT (MG/L)	TOTAL SEDI-MENT DIS-CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM
JAN							
02...	1725	10.0	1.2	3550	12	65	80
MAR							
15...	1635	8.0	1.9	1290	6.6	65	79
15...	1925	8.5	1.2	501	1.6	75	88

DATE	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .062 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .125 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .250 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .500 MM
JAN							
02...	89	94	98	99	99	99	100
MAR							
15...	89	94	97	98	99	99	100
15...	94	98	99	99	100	--	--

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CA

LOCATION.--Lat 37°17'09", long 122°03'14", in NE¼NW¼ sec.35, T.7 S., R.2 W., Santa Clara County, on left bank 60 ft (18 m) upstream from culvert at Saratoga Golf Course, 0.2 mi (0.3 km) downstream from small right-bank tributary, and 2.2 mi (3.5 km) northwest of Saratoga Post Office.

DRAINAGE AREA.--0.27 mi^2 (0.70 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 600 ft (183 m), from topographic map.

REMARKS.--No flow since May 16, 1975. No regulation or diversion above station.

AVERAGE DISCHARGE.--5 years, 0.10 ft^3/s (0.003 m^3/s), 72 acre-ft/yr (88,800 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52 ft^3/s (1.47 m^3/s) Feb. 1, 1975, gage height, 4.93 ft (1.503 m); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--No flow during year.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.
CHEMICAL ANALYSES: Water years 1972, 1974-76.
WATER TEMPERATURES: Water years 1973-75.
SEDIMENT RECORDS: Water years 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to September 1975.
SEDIMENT RECORDS: October 1972 to current year.

REMARKS.--Sediment table omitted for period of no flow Oct. 1 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,040 mg/L Jan. 16, 1973; minimum daily mean, no flow for many days each year.
SEDIMENT DISCHARGE: Maximum daily, 319 tons (289 tonnes) Jan. 16, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: No flow during year.
SEDIMENT DISCHARGE: No flow during year.

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CA

LOCATION.--Lat 37°18'03", long 122°01'32", Santa Clara County, on right bank 100 ft (30 m) upstream from Rainbow Drive, and 1.6 mi (2.6 km) south of Cupertino.

DRAINAGE AREA.--3.98 mi^2 (10.31 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1973 to current year. October 1966 to September 1973 in files of Santa Clara Valley Water District.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 265 ft (81 m), from topographic map.

REMARKS.--Records good. No diversion above station. During current year, 571 acre-ft (704,000 m^3) imported from South Bay Aqueduct for percolation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 650 ft^3/s (18.4 m^3/s) Feb. 1, 1975, gage height, 6.00 ft (1.829 m); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43 ft^3/s (1.22 m^3/s) Mar. 15, gage height, 1.43 ft (0.436 m), no peak above base of 100 ft^3/s (2.8 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	2.7	.72	0		0		0	0			0
2	0	2.7	.82	4.7		0		0	.13			0
3	0	2.7	.47	.61		0		0	0			0
4	.60	1.2	0	0		0		0	0			0
5	2.2	0	0	0		0		0	0			0
6	2.2	0	0	0		0		0	0			0
7	2.1	0	0	0		0		0	0			0
8	2.1	0	0	0		0		.01	0			0
9	2.0	0	0	0		0		0	0			0
10	1.8	0	0	0		0		0	0			0
11	1.8	.40	0	0		0		0	0			0
12	1.8	.01	0	0		0		0	0			0
13	1.8	0	0	0		0		0	0			0
14	1.8	.32	0	0		0		0	0			0
15	1.6	0	0	0		6.9		0	0			0
16	2.7	0	0	0		2.6		0	0			0
17	3.9	0	0	0		0		0	0			0
18	3.9	0	0	0		0		0	0			0
19	3.6	.67	0	0		0		0	0			.80
20	3.3	1.2	0	0		0		0	0			0
21	3.3	0	0	0		0		0	0			.02
22	3.3	0	0	0		0		0	0			.61
23	3.3	0	0	0		0		0	0			.77
24	3.3	0	0	0		0		0	0			.78
25	3.0	0	0	0		0		0	0			.83
26	3.0	0	0	0		0		0	0			.79
27	3.0	0	0	0		0		0	0			.85
28	3.0	0	0	0		0		0	0			.84
29	2.7	.01	.10	0	---	0		0	0			.77
30	2.7	.53	.71	0	---	0		0	0			.78
31	2.7	---	0	0	---	0	---	0	---			---
TOTAL	73.50	12.44	2.82	5.31	0	9.5	0	.01	.13	0	0	7.84
MEAN	2.37	.41	.091	.17	0	.31	0	.0003	.004	0	0	.26
MAX	3.9	2.7	.82	4.7	0	6.9	0	.01	.13	0	0	.85
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	146	25	5.6	11	0	19	0	.02	.3	0	0	16

CAL YR 1976 TOTAL 473.32 MEAN 1.29 MAX 8.1 MIN 0 AC-FT 939
WTR YR 1977 TOTAL 111.55 MEAN .31 MAX 6.9 MIN 0 AC-FT 221

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974 to current year.
WATER TEMPERATURES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1973 to current year.
SEDIMENT RECORDS: October 1973 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 7,020 mg/L Feb. 1, 1975; minimum daily mean, no flow for many days each year.
SEDIMENT DISCHARGE: Maximum daily, 4,130 tons (3,750 tonnes) Feb. 1, 1975; minimum daily, 0 tons (0 tonnes) on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 748 mg/L Mar. 15; minimum daily mean, no flow for many days.
SEDIMENT DISCHARGE: Maximum daily, 57 tons (52 tonnes) Mar. 15; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	SUSPENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAR									
15...	1830	23	172	10.0	310	120	584	.67	.09
15...	1900	33	282	10.0	600	140	854	.71	.07
15...	1920	39	329	9.5	1100	170	2000	.94	.12
15...	2205	17	353	9.0	1600	160	2200	2.9	.21

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
MAR									
15...	2.4	2.5	3.2	.68	11	10	50	300	.1
15...	3.9	4.0	4.7	.25	19	10	120	400	.3
15...	2.1	2.2	3.1	1.2	44	<10	140	300	.4
15...	.29	.50	3.4	1.1	--	--	--	--	--

DATE	TIME	POLYCHLORINATED NAPHTHALENES (UG/L)	TOTAL PCB (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLORDANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)
MAR								
15...	1920	.00	.0	.00	.4	.00	.03	.11

DATE	TOTAL DIAZINON (UG/L)	TOTAL DIELDRIN (UG/L)	TOTAL ENDOSULFAN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTACHLOR (UG/L)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)
MAR									
15...	.14	.00	.00	.00	.00	.01	.00	.03	.11

DATE	TOTAL METHYL PARATHION (UG/L)	TOTAL METHYL TRITHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL TOXAPHENE (UG/L)	TOTAL TRITHION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
MAR								
15...	.00	.00	.00	0	.00	.13	.11	.07

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---		---						
2	---	14.5	12.0	14.0		---						
3	---	---	---	---		---						
4	---	---	---	---		---						
5	---	---	---	---		---						
6	23.5	---	---	---		---						
7	---	---	---	---		---						
8	---	---	---	---		---						
9	---	---	---	---		---						
10	---	---	---	---		---						
11	22.0	---	---	---		---						
12	---	---	---	---		---						
13	---	---	---	---		---						
14	---	---	---	---		---						
15	---	---	---	---		9.5						
16	---	---	---	---		---						
17	---	---	---	---		---						
18	---	---	---	---		---						
19	18.0	---	---	---		---						
20	---	---	---	---		---						
21	---	---	---	---		---						
22	---	---	---	---		---						
23	---	---	---	---		---						
24	---	---	---	---		---						
25	---	---	---	---		---						
26	---	---	---	---		---						
27	---	---	---	---		---						
28	17.0	---	---	---		---						
29	---	---	---	---		---						
30	---	---	---	---		---						
31	---	---	---	---		---						
MONTH	---	---	---	---		---						

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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	1.0	53	1.3	2.7	2	.01	.72	2	0
2	0	0	0	2.7	2	.01	.82	1	0
3	0	0	0	2.7	2	.01	.47	1	0
4	.60	2	.01	1.2	1	0	0	0	0
5	2.2	2	.01	0	0	0	0	0	0
6	2.2	2	.01	0	0	0	0	0	0
7	2.1	2	.01	0	0	0	0	0	0
8	2.1	2	.01	0	0	0	0	0	0
9	2.0	2	.01	0	0	0	0	0	0
10	1.8	2	.01	0	0	0	0	0	0
11	1.8	2	.01	.40	9	.07	0	0	0
12	1.8	2	.01	.01	1	0	0	0	0
13	1.8	2	.01	0	0	0	0	0	0
14	1.8	2	.01	.32	5	.03	0	0	0
15	1.6	2	.01	0	0	0	0	0	0
16	2.7	4	.04	0	0	0	0	0	0
17	3.9	3	.03	0	0	0	0	0	0
18	3.9	3	.03	0	0	0	0	0	0
19	3.6	3	.03	.67	2	.01	0	0	0
20	3.3	3	.03	1.2	1	0	0	0	0
21	3.3	3	.03	0	0	0	0	0	0
22	3.3	3	.03	0	0	0	0	0	0
23	3.3	3	.03	0	0	0	0	0	0
24	3.3	2	.02	0	0	0	0	0	0
25	3.0	2	.02	0	0	0	0	0	0
26	3.0	2	.02	0	0	0	0	0	0
27	3.0	2	.02	0	0	0	0	0	0
28	3.0	2	.02	0	0	0	0	0	0
29	2.7	2	.01	.01	1	0	.10	2	0
30	2.7	2	.01	.53	2	0	.71	20	.23
31	2.7	2	.01	---	---	---	0	0	0
TOTAL	73.50	---	1.80	12.44	---	.14	2.82	---	.23

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CA--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	JANUARY			FEBRUARY			MARCH		
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	0	0	0				0	0	0
2	4.7	484	23				0	0	0
3	.61	22	.11				0	0	0
4	0	0	0				0	0	0
5	0	0	0				0	0	0
6	0	0	0				0	0	0
7	0	0	0				0	0	0
8	0	0	0				0	0	0
9	0	0	0				0	0	0
10	0	0	0				0	0	0
11	0	0	0				0	0	0
12	0	0	0				0	0	0
13	0	0	0				0	0	0
14	0	0	0				0	0	0
15	0	0	0				6.9	748	57
16	0	0	0				2.6	360	8.4
17	0	0	0				0	0	0
18	0	0	0				0	0	0
19	0	0	0				0	0	0
20	0	0	0				0	0	0
21	0	0	0				0	0	0
22	0	0	0				0	0	0
23	0	0	0				0	0	0
24	0	0	0				0	0	0
25	0	0	0				0	0	0
26	0	0	0				0	0	0
27	0	0	0				0	0	0
28	0	0	0				0	0	0
29	0	0	0				0	0	0
30	0	0	0				0	0	0
31	0	0	0				0	0	0
TOTAL	5.31	---	23.11	0	0	0	9.50	---	65.40

	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				0	0		0	0	
2				0	0		.13	2	
3				0	0		0	0	
4				0	0		0	0	
5				0	0		0	0	
6				0	0		0	0	
7				0	0		0	0	
8				.01	1		0	0	
9				0	0		0	0	
10				0	0		0	0	
11				0	0		0	0	
12				0	0		0	0	
13				0	0		0	0	
14				0	0		0	0	
15				0	0		0	0	
16				0	0		0	0	
17				0	0		0	0	
18				0	0		0	0	
19				0	0		0	0	
20				0	0		0	0	
21				0	0		0	0	
22				0	0		0	0	
23				0	0		0	0	
24				0	0		0	0	
25				0	0		0	0	
26				0	0		0	0	
27				0	0		0	0	
28				0	0		0	0	
29				0	0		0	0	
30				0	0		0	0	
31				0	0		---	---	
TOTAL	0	0	0	.01	---	0	.13	---	0

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CA--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							0	0	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							.80	41	1.3
20							0	0	0
21							.02	1	0
22							.61	2	0
23							.77	2	0
24							.78	2	0
25							.83	2	0
26							.79	2	0
27							.85	2	0
28							.84	2	0
29							.77	2	0
30							.78	2	0
31							---	---	---
TOTAL	0	0	0	0	0	0	7.84	---	1.30
YEAR	111.55		91.98						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 15...	1930	9.0	42	2510	285	59	79	86	94	97	100

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL SEDI-MENT (MG/L)	TOTAL SEDI-MENT DIS-CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM	TOTAL SED. FALL DIAM. % FINER THAN .008 MM
JAN 02...	1415	14.0	13	798	28	39	66	86
02...	1515	14.0	9.1	585	14	56	75	86
MAR 15...	1620	12.0	5.4	144	2.1	--	--	--
15...	1720	11.0	9.1	135	3.3	--	--	--
15...	2055	8.5	29	3510	275	67	85	92
15...	2205	9.0	17	2840	130	74	86	95

DATE	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .062 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .125 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .250 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .500 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 1.00 MM
JAN 02...	99	100	--	--	--	--	--
02...	94	97	98	99	100	--	--
MAR 15...	--	--	91	95	97	99	100
15...	--	--	98	100	--	--	--
15...	97	99	100	--	--	--	--
15...	99	99	100	--	--	--	--

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM
MAR 15...	2020	8.5	13	38	15	2.4	1

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM
MAR 15...	2	4	27	53	76	92	100

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, on left bank 0.7 mi (1.1 km) downstream from Bear Creek, 5.0 mi (8.0 km) upstream from Coyote Creek Dam, and 6.4 mi (10.3 km) northeast of Gilroy.

DRAINAGE AREA.--109 mi^2 (282 km^2).

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 including period of no gage-height record Dec. 28 to Jan. 3. No regulation or diversion above station.

AVERAGE DISCHARGE.--17 years, 42.0 ft^3/s (1.189 m^3/s), 30,430 acre-ft/yr (37.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft^3/s (286 m^3/s) Jan. 31, 1963, gage height, 12.60 ft (3.840 m) site and datum then in use, from rating curve extended above 3,200 ft^3/s (90.6 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35 ft^3/s (0.99 m^3/s) Jan. 3, gage height, 3.72 ft (1.134 m), from peak-stage indicator, no peak above base of 1,000 ft^3/s (28 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	1.0	.92	.88	1.1	.80	1.3	.28	.02	
2			0	5.0	.87	.86	1.0	.68	1.2	.27	.02	
3			0	15	.87	.83	1.1	.65	1.2	.24	.01	
4			0	9.4	.87	.79	1.1	.60	1.2	.23	.01	
5			0	3.6	.91	.73	1.1	.62	1.2	.21	.01	
6			0	3.1	.95	.68	1.1	.62	1.1	.19	0	
7			0	2.3	.97	.68	1.0	.60	1.0	.19	0	
8			0	1.3	1.1	.69	1.0	.61	.97	.17	0	
9			0	.86	1.1	.71	.95	.59	.98	.16	0	
10			0	.70	1.3	.63	.97	.57	.86	.16	0	
11			0	.63	1.6	.64	.98	.60	.86	.14	0	
12			0	.59	1.7	.63	1.0	.58	.86	.14	0	
13			0	.57	1.7	.65	1.1	.55	.86	.13	0	
14			0	.60	1.7	.82	1.1	.53	.84	.12	0	
15			0	.56	1.6	1.1	1.1	.53	.87	.12	0	
16			0	.53	1.5	3.6	1.1	.50	.86	.11	0	
17			0	.52	1.4	4.6	1.0	.52	.86	.10	0	
18			0	.55	1.4	2.3	1.0	.53	.81	.10	0	
19			0	.57	1.4	1.6	1.0	.55	.74	.09	0	
20			0	.57	1.4	1.2	1.0	.56	.71	.09	0	
21			0	.60	2.0	1.1	1.0	.57	.69	.08	0	
22			0	.63	1.5	1.1	.99	.61	.65	.08	0	
23			0	.65	2.1	1.1	.97	.62	.59	.08	0	
24			0	.74	2.3	1.0	.95	.68	.51	.07	0	
25			0	.81	2.1	1.0	.95	.74	.46	.07	0	
26			0	.79	1.4	1.3	.89	.80	.42	.06	0	
27			0	.79	1.0	1.4	.87	.85	.40	.06	0	
28			0	.80	.94	1.3	.84	.89	.37	.06	0	
29			.15	.81	---	1.2	.81	1.0	.34	.05	0	
30			1.4	.85	---	1.2	.79	1.1	.29	.04	0	
31		---	1.2	.89	---	1.1	---	1.2	---	.03	0	---
TOTAL	0	0	2.75	56.31	38.60	37.42	29.86	20.85	24.00	3.92	.07	0
MEAN	0	0	.089	1.82	1.38	1.21	1.00	.67	.80	.13	.002	0
MAX	0	0	1.4	15	2.3	4.6	1.1	1.2	1.3	.28	.02	0
MIN	0	0	0	.52	.87	.63	.79	.50	.29	.03	0	0
AC-FT	0	0	5.5	112	77	74	59	41	48	7.8	.1	0

CAL YR 1976 TOTAL 215.66 MEAN .59 MAX 20 MIN 0 AC-FT 428
WTR YR 1977 TOTAL 213.78 MEAN .59 MAX 15 MIN 0 AC-FT 424

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, at center of dam on Coyote Creek, 3.8 mi (6.1 km) northeast of San Martin. DRAINAGE AREA, 120 mi^2 (311 km^2). 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 at mean sea level (levels by Santa Clara Valley Water District).

Reservoir is formed by rock- and earthfill dam completed in 1936. Capacity, 23,700 acre-ft (29.2 hm^3) between elevations 693.3 ft (211.32 m), invert of outlet tunnel and 777.2 ft (236.89 m), crest of spillway. Water released down Coyote Creek for storage in Anderson Lake. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 28,120 acre-ft (34.7 hm^3) Dec. 8, 1950, elevation, 782.5 ft (238.51 m); no contents at times.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 7,810 acre-ft (9.63 hm^3) Oct. 1, elevation, 746.07 ft (227.402 m); no contents Apr. 22 to Sept. 30.

11169920 ANDERSON LAKE.--Lat 37°09'56", long 121°37'42", in southeast corner of La Laguna Seca Grant, Santa Clara County, at center of dam on Coyote Creek, 2.5 mi (4.0 km) northeast of Madrone. DRAINAGE AREA, 195 mi^2 (505 km^2). 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 at mean sea level (levels by Santa Clara Valley Water District).

Reservoir is formed by earth- and rockfill dam completed in 1950. Capacity, 91,280 acre-ft (113 hm^3) between elevations 439 ft (133.8 m), invert of outlet tunnel and 625.0 ft (190.50 m), crest of spillway. Water released down Coyote Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 95,990 acre-ft (118 hm^3) 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, 35,750 acre-ft (44.1 hm^3) Oct. 1, elevation, 565.13 ft (172.252 m); minimum observed, 12,650 acre-ft (15.6 hm^3) Sept. 30, elevation, 519.09 ft (158.219 m).

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Coyote Lake	Anderson Lake
Sept. 30, 1976.....	7810	35750
Oct. 31.....	7060	33310
Nov. 30.....	6410	30790
Dec. 31.....	5930	28910
Jan. 31, 1977.....	5670	26460
Feb. 28.....	1630	28180
Mar. 31.....	949	27410
Apr. 30.....	0	26450
May 31.....	0	23440
June 30.....	0	20390
July 31.....	0	17370
Aug. 31.....	0	14500
Sept. 30.....	0	12650

NOTE.--Contents at 0800 on first day of following month.

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, on right bank 1.2 mi (1.9 km) downstream from Anderson Dam, and 1.8 mi (2.9 km) northeast of Madrone.

DRAINAGE AREA.--196 mi^2 (508 km^2).

WATER-DISCHARGE RECORDS

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).--71 years, 64.0 ft^3/s (1.812 m^3/s), 46,370 acre-ft/yr (57.2 hm^3/yr).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft^3/s (1.44 m^3/s) Oct. 1, gage height, 2.33 ft (0.710 m); minimum daily, 14 ft^3/s (0.40 m^3/s) Mar. 26-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	39	35	34	30	32	19	40	38	36	37	22
2	41	38	35	33	27	32	19	39	36	36	36	21
3	41	38	35	25	16	32	19	38	36	35	35	21
4	41	38	35	17	16	32	20	38	36	34	36	20
5	40	37	35	17	16	32	19	38	36	36	35	20
6	40	37	35	21	21	32	19	38	35	35	36	20
7	40	37	35	24	31	32	19	38	34	35	37	19
8	40	36	35	24	31	26	19	39	35	35	36	19
9	39	36	35	24	31	18	19	39	35	33	36	20
10	39	38	35	25	32	18	20	38	35	32	36	21
11	39	38	35	27	32	17	20	38	35	35	36	21
12	39	38	35	28	32	18	20	39	36	35	36	21
13	39	38	35	32	32	18	20	39	36	36	36	20
14	39	39	35	31	32	17	20	39	36	37	36	19
15	39	39	35	31	32	16	20	39	36	37	36	19
16	38	39	35	30	32	18	20	39	35	37	37	19
17	39	39	35	30	32	17	20	38	34	40	37	19
18	39	39	35	30	32	16	20	39	34	41	37	20
19	39	39	35	28	32	16	20	40	35	41	38	21
20	39	39	34	27	32	16	23	39	35	41	39	20
21	39	39	34	26	32	16	24	39	35	40	39	19
22	39	38	34	27	32	16	23	38	35	39	37	20
23	39	37	34	28	33	16	21	37	35	40	37	19
24	39	36	35	27	34	17	22	38	35	40	37	19
25	39	36	36	24	34	15	23	38	35	40	29	19
26	39	36	36	26	33	14	25	38	35	40	19	19
27	39	36	35	30	32	14	26	38	34	40	19	18
28	39	36	35	30	32	14	28	38	34	39	19	18
29	39	36	34	30	---	14	28	38	34	38	18	19
30	39	36	33	30	---	15	34	38	35	38	19	16
31	39	---	34	30	---	19	---	38	---	37	20	---
TOTAL	1223	1127	1079	846	833	625	649	1192	1055	1158	1021	588
MEAN	39.5	37.6	34.8	27.3	29.8	20.2	21.6	38.5	35.2	37.4	32.9	19.6
MAX	44	39	36	34	34	32	34	40	38	41	39	22
MIN	38	36	33	17	16	14	19	37	34	32	18	16
AC-FT	2430	2240	2140	1680	1650	1240	1290	2360	2090	2300	2030	1170
(†)	573	672	600	621	545	460	391	573	595	508	526	572

CAL YR 1976 TOTAL 18480 MEAN 50.5 MAX 113 MIN 20 AC-FT 36660 † 8580
WTR YR 1977 TOTAL 11396 MEAN 31.2 MAX 44 MIN 14 AC-FT 22600 † 6640

† Diversion, in acre-feet, to Main Avenue percolation ponds, furnished by Santa Clara Valley Water District.

11170000 COYOTE CREEK NEAR MADRONE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1952-66, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
AUG 10...	1015	36	428	8.0	16.0	9.9	10	210	19	47	22	21

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
AUG 10...	18	.6	2.0	230	0	190	43	12	.2	8.4	269	.37

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)	SUSPENDED SOLIDS (MG/L)	VOL. NONFILTRABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 10...	26.1	63	63	0	.03	.03	.42	.45	.03	120	20

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, on left bank at downstream side of Dorel Drive bridge, 0.1 mi (0.2 km) upstream from Dutard Creek near northeast limits of San Jose.

DRAINAGE AREA.--21.5 mi^2 (55.7 km^2).

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

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

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

AVERAGE DISCHARGE.--16 years, 4.79 ft^3/s (0.136 m^3/s), 3,470 acre-ft/yr (4.28 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,500 ft^3/s (42.5 m^3/s) Jan. 21, 1967, gage height, 6.24 ft (1.902 m) in gage well, 7.8 ft (2.38 m) from outside gage, from rating curve extended above 270 ft^3/s (7.65 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.2 ft^3/s (0.20 m^3/s) Jan. 2, gage height, 3.10 ft (0.945 m), no peak above base of 90 ft^3/s (2.5 m^3/s); no flow for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	.14	.24	.42	.26	.33	.41	.44	.09	.02	0	.07
2	.28	.13	.28	1.0	.26	.33	.39	.30	.09	.03	0	.18
3	.17	.13	.26	.92	.26	.32	.36	.34	.08	.03	0	.21
4	.12	.14	.25	.65	.26	.30	.36	.31	.08	.02	0	.08
5	.19	.14	.25	.64	.26	.29	.35	.29	.08	.02	0	.01
6	.20	.15	.25	.54	.26	.29	.32	.28	.07	.02	.13	.01
7	.18	.16	.25	.48	.26	.29	.33	.31	.06	.02	.16	0
8	.20	.16	.22	.46	.40	.29	.36	.41	.06	.02	.03	0
9	.19	.13	.22	.42	.33	.43	.34	.34	.09	.02	.07	.01
10	.20	.13	.22	.40	.35	.29	.35	.36	.08	.03	.03	.05
11	.19	.28	.24	.37	.41	.33	.35	.50	.06	.03	.02	.03
12	.17	.29	.24	.35	.42	.38	.35	.36	.07	.03	.03	.03
13	.15	.20	.24	.33	.41	.29	.35	.32	.09	.03	.04	.05
14	.16	.38	.23	.33	.39	.30	.36	.33	.07	.03	.04	.05
15	.16	.24	.25	.33	.37	.40	.36	.27	.06	.02	.03	.08
16	.14	.25	.26	.33	.32	1.5	.83	.22	.09	.02	.04	.05
17	.13	.28	.26	.29	.29	1.6	.75	.23	.20	.02	.09	.04
18	.15	.28	.24	.29	.28	1.1	.67	.22	.16	.01	.10	.03
19	.15	.28	.24	.29	.26	.72	.50	.23	.11	.01	.10	.24
20	.14	.28	.25	.29	.26	.55	.44	.17	.07	.01	.07	.04
21	.14	.28	.25	.29	.45	.49	.42	.17	.05	0	.07	.03
22	.18	.29	.23	.30	.32	.43	.38	.19	.06	0	.07	.02
23	.18	.28	.24	.29	.44	.40	.41	.19	.04	0	.07	.01
24	.16	.29	.29	.29	.38	.44	.34	.16	.03	0	.10	.04
25	.15	.29	.37	.29	.37	.62	.35	.15	.11	.01	.08	.11
26	.13	.27	.41	.26	.37	.68	.26	.19	.22	.01	.10	.04
27	.11	.27	.41	.26	.36	.58	.23	.17	.19	0	.07	.04
28	.11	.22	.40	.26	.36	.47	.22	.13	.20	0	.06	.04
29	.13	.22	.44	.26	---	.41	.22	.11	.20	0	.08	.04
30	.12	.22	.96	.29	---	.41	.28	.10	.16	0	.05	.03
31	.13	---	.43	.26	---	.42	---	.09	---	0	.08	---
TOTAL	5.30	6.80	9.32	12.18	9.36	15.68	11.64	7.88	3.02	.46	1.81	1.66
MEAN	.17	.23	.30	.39	.33	.51	.39	.25	.10	.015	.058	.055
MAX	.49	.38	.96	1.0	.45	1.6	.83	.50	.22	.03	.16	.24
MIN	.11	.13	.22	.26	.26	.29	.22	.09	.03	0	0	0
AC-FT	11	13	18	24	19	31	23	16	6.0	.9	3.6	3.3

CAL YR 1976 TOTAL 111.20 MEAN .30 MAX 1.9 MIN 0 AC-FT 221
WTR YR 1977 TOTAL 85.11 MEAN .23 MAX 1.6 MIN 0 AC-FT 169

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, on right bank 150 ft (46 m) upstream from road bridge, 3.5 mi (5.6 km) southeast of Calaveras Dam, 3.5 mi (5.6 km) northeast of city limits of San Jose.

DRAINAGE AREA.--77.1 mi^2 (199.7 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 783.86 ft (238.921 m) above mean sea level.

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

AVERAGE DISCHARGE.--9 years, 45.5 ft^3/s (1.289 m^3/s), 32,960 acre-ft/yr (40.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft^3/s (131 m^3/s) Jan. 26, 1969, gage height, 10.94 ft (3.335 m); minimum daily, 0.11 ft^3/s (0.003 m^3/s) July 28-30, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87 ft^3/s (2.46 m^3/s) Jan. 3, gage height, 4.57 ft (1.393 m), no peak above base of 800 ft^3/s (23 m^3/s); minimum daily, 0.19 ft^3/s (0.005 m^3/s) July 31, Sept. 7. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	.84	1.4	6.1	2.4	3.3	4.7	2.0	1.3	.46	.20	.21
2	.64	.83	1.3	5.6	2.4	3.2	4.2	1.6	1.3	.47	.21	.22
3	1.8	.82	1.3	48	2.4	3.1	3.9	1.6	1.2	.44	.22	.22
4	3.3	.82	1.3	30	2.3	3.0	3.7	1.5	1.1	.43	.22	.21
5	2.8	.82	1.3	15	2.3	2.9	3.6	1.7	1.1	.43	.22	.21
6	2.2	.84	1.3	9.2	2.3	2.8	3.6	1.8	1.0	.43	.22	.20
7	1.9	.84	1.3	6.8	2.3	2.8	3.4	2.0	.96	.42	.21	.19
8	1.8	.84	1.3	5.3	2.5	2.8	3.5	2.0	.97	.41	.21	.19
9	1.6	.87	1.3	4.5	2.5	2.9	3.4	2.0	.93	.41	.21	.20
10	1.5	.85	1.3	4.0	2.9	2.9	3.6	2.0	.87	.40	.21	.22
11	1.4	1.0	1.3	3.7	3.1	3.5	3.6	2.3	.89	.38	.20	.23
12	1.3	1.1	1.3	3.6	2.9	3.6	3.4	2.9	.89	.37	.21	.23
13	1.2	1.0	1.3	3.6	2.8	3.5	3.3	3.0	.90	.36	.22	.24
14	1.1	1.3	1.3	3.4	2.7	3.4	3.2	3.1	.86	.36	.22	.24
15	1.1	1.1	1.3	3.3	2.5	3.9	3.1	2.8	.84	.34	.21	.25
16	.99	1.5	1.3	3.2	2.5	17	3.0	2.5	.80	.30	.21	.26
17	.94	2.2	1.3	3.0	2.4	20	2.8	2.4	.73	.29	.23	.26
18	.92	2.3	1.3	2.9	2.4	11	2.8	2.3	.72	.28	.24	.24
19	.88	2.2	1.3	2.9	2.4	7.9	2.6	2.2	.70	.28	.24	.38
20	.86	2.1	1.3	2.8	2.3	6.5	2.5	2.0	.67	.28	.23	.31
21	.83	2.0	1.3	2.8	2.9	5.6	2.4	1.9	.66	.27	.23	.26
22	.83	1.9	1.3	2.7	3.8	5.0	2.3	1.9	.62	.27	.22	.26
23	.83	1.8	1.3	2.7	5.3	4.6	2.2	2.0	.58	.26	.21	.25
24	.81	1.7	1.3	2.7	5.0	4.9	2.1	1.9	.57	.27	.22	.26
25	.81	1.6	1.3	2.7	4.8	7.2	2.0	1.7	.53	.27	.23	.26
26	.79	1.5	1.3	2.6	4.1	8.0	2.0	1.7	.51	.25	.23	.26
27	.79	1.3	1.3	2.6	3.7	7.1	1.9	1.6	.50	.23	.24	.27
28	.79	1.4	1.3	2.6	3.5	5.7	1.8	1.6	.49	.23	.22	.29
29	.80	1.4	1.4	2.5	---	4.9	1.7	1.5	.48	.23	.21	.31
30	.82	1.4	2.0	2.5	---	4.9	1.7	1.5	.46	.21	.20	.29
31	.84	---	4.2	2.4	---	5.1	---	1.4	---	.19	.20	---
TOTAL	38.06	40.17	44.1	195.7	83.4	173.0	88.0	62.4	24.13	10.22	6.75	7.42
MEAN	1.23	1.34	1.42	6.31	2.98	5.58	2.93	2.01	.80	.33	.22	.25
MAX	3.3	2.3	4.2	48	5.3	20	4.7	3.1	1.3	.47	.24	.38
MIN	.64	.82	1.3	2.4	2.3	2.8	1.7	1.4	.46	.19	.20	.19
AC-FT	75	80	87	388	165	343	175	124	48	20	13	15

CAL YR 1976 TOTAL 865.05 MEAN 2.36 MAX 24 MIN .29 AC-FT 1720
WTR YR 1977 TOTAL 773.35 MEAN 2.12 MAX 48 MIN .19 AC-FT 1530

11173200 ARROYO HONDO NEAR SAN JOSE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 17...	1100	.21	450	7.8	20.0	9.6	180	0	49

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 17...	14	26	24	.8	1.7	230	0	190	32

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 17...	13	.3	14	264	.36	.15	.01	420	40

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, on right bank 40 ft (12 m) downstream from Mines Road bridge, 2.4 mi (3.9 km) upstream from small right-bank tributary, and 5.2 mi (8.4 km) southeast of Livermore.

DRAINAGE AREA.--38.2 mi^2 (98.9 km^2).

PERIOD OF RECORD.--January 1912 to September 1930, October 1963 to current year. Records for water year 1914 incomplete, yearly estimate and monthly discharge only for some months, published in WSP 1315-B.

GAGE.--Water-stage recorder. Concrete control since Aug. 5, 1964 (ineffective due to gravel fill). Datum of gage is 746.49 ft (227.530 m) above mean sea level. 1912 to October 1914 at present site at different datum. November 1914 to Sept. 30, 1930, at site 1 mi (2 km) upstream at different datum.

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

AVERAGE DISCHARGE.--32 years, 4.19 ft^3/s (0.119 m^3/s), 3,040 acre-ft/yr (3.75 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 1,250 ft^3/s (35.4 m^3/s) Jan. 22, 1967, gage height, 5.90 ft (1.798 m), from rating curve extended above 460 ft^3/s (13.0 m^3/s); maximum daily discharge, 1,000 ft^3/s (28.3 m^3/s) Jan. 25, 1914 (estimated); no flow for parts of most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, discharge 1,880 ft^3/s (53.2 m^3/s), by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44 ft^3/s (1.25 m^3/s) Jan. 3, gage height, 5.40 ft (1.646 m), no peak above base of 90 ft^3/s (2.5 m^3/s); no flow for several months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.01	.03	.25	.35	.21	.05	.05			
2		0	.01	.06	.24	.34	.21	.05	.04			
3		0	.01	1.9	.25	.32	.21	.04	.04			
4		0	.01	1.0	.25	.29	.21	.04	.04			
5		0	.01	.65	.25	.26	.20	.04	.03			
6		0	.01	.46	.25	.24	.18	.04	.03			
7		0	.01	.39	.25	.21	.18	.04	.02			
8		0	.01	.34	.25	.21	.15	.04	.02			
9		0	.01	.30	.25	.21	.15	.04	.02			
10		0	.01	.29	.25	.18	.15	.04	.02			
11		0	.01	.25	.27	.20	.15	.05	.01			
12		0	.01	.28	.29	.21	.15	.05	.01			
13		0	.02	.27	.29	.21	.14	.05	.01			
14		0	.02	.29	.29	.21	.12	.04	.01			
15		0	.02	.29	.28	.21	.12	.04	0			
16		0	.02	.29	.25	.41	.12	.04	0			
17		0	.02	.29	.25	.44	.12	.04	0			
18		0	.02	.29	.21	.57	.11	.04	0			
19		0	.02	.25	.21	.53	.10	.04	0			
20		0	.02	.25	.21	.44	.10	.04	0			
21		0	.02	.25	.33	.39	.10	.04	0			
22		0	.02	.29	.33	.34	.10	.04	0			
23		0	.02	.29	.82	.29	.08	.05	0			
24		0	.02	.29	.72	.29	.08	.05	0			
25		0	.02	.29	.64	.29	.08	.05	0			
26		0	.02	.25	.57	.25	.07	.06	0			
27		0	.02	.25	.44	.25	.07	.07	0			
28		.01	.02	.25	.38	.25	.06	.07	0			
29		.01	.02	.25	---	.25	.05	.07	0			
30		.01	.04	.24	---	.25	.05	.07	0			
31		---	.03	.25	---	.25	---	.06	---			---
TOTAL	0	.03	.53	11.07	9.27	9.14	3.82	1.48	.35	0	0	0
MEAN	0	.001	.017	.36	.33	.29	.13	.048	.012	0	0	0
MAX	0	.01	.04	1.9	.82	.57	.21	.07	.05	0	0	0
MIN	0	0	.01	.03	.21	.18	.05	.04	0	0	0	0
AC-FT	0	.06	1.1	22	18	18	7.6	2.9	.7	0	0	0

CAL YR 1976 TOTAL 66.91 MEAN .18 MAX 1.9 MIN 0 AC-FT 133
WTR YR 1977 TOTAL 35.69 MEAN .098 MAX 1.9 MIN 0 AC-FT 71

11176200 ARROYO MOCHO NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'26", long 121°52'20", in Santa Rita Grant, Alameda County, 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.--143 mi^2 (370 km^2).

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) above mean sea level. 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.--15 years, 13.4 ft^3/s (0.379 m^3/s), 9,710 acre-ft/yr (12.0 hm^3/yr). The figure published in the 1976 report was in error; the correct figure is 14 years, 14.1 ft^3/s (0.399 m^3/s), 10,220 acre-ft/yr (12.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,760 ft^3/s (49.8 m^3/s) Feb. 1, 1963, gage height, 8.60 ft (2.621 m) site and datum then in use, from rating curve extended above 58 ft^3/s (1.64 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 119 ft^3/s (3.37 m^3/s) Jan. 2, gage height, 9.03 ft (2.752 m), no peak above base of 250 ft^3/s (7.1 m^3/s); minimum daily, 1.2 ft^3/s (0.034 m^3/s) July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	5.7	9.9	9.3	4.9	6.0	3.9	5.8	2.7	2.1	3.1	2.4
2	19	5.7	6.2	23	5.2	4.4	4.5	4.5	2.7	2.3	2.0	3.4
3	9.8	4.9	7.3	37	6.4	4.2	3.0	4.0	2.5	2.5	2.3	7.7
4	6.0	5.1	7.4	17	4.3	5.5	1.6	4.1	2.9	2.9	3.1	7.9
5	7.2	5.3	8.1	8.9	5.1	3.2	3.1	3.5	3.1	2.3	4.0	11
6	6.2	4.5	5.9	6.0	4.8	3.1	4.7	3.9	3.7	2.9	4.2	9.4
7	5.0	5.3	5.4	5.4	4.9	3.0	3.1	7.4	3.1	2.4	2.1	8.0
8	6.3	5.9	5.1	5.2	5.7	4.6	5.8	6.5	3.1	2.3	2.7	9.7
9	7.6	4.2	6.9	4.0	5.9	4.0	7.8	5.1	2.7	2.4	3.7	8.5
10	8.9	4.6	5.1	5.2	5.7	4.3	7.9	4.4	3.3	2.2	3.6	9.7
11	7.1	5.5	5.0	6.2	5.2	2.4	4.5	4.2	3.5	2.5	5.2	7.9
12	2.3	5.1	1.4	9.0	4.4	2.7	4.4	5.1	3.2	3.3	4.5	5.9
13	5.5	5.8	2.3	5.9	4.5	5.5	3.7	4.2	3.2	2.6	3.6	8.5
14	5.8	6.5	5.5	5.3	1.4	4.9	4.4	4.1	3.6	2.3	3.2	5.8
15	4.4	6.1	4.1	4.4	2.7	5.4	2.5	4.2	3.5	2.4	3.3	5.9
16	8.2	7.4	4.5	4.3	3.0	18	2.3	3.7	3.5	2.5	4.0	7.8
17	9.7	4.9	5.0	5.0	3.3	1.8	2.6	3.1	3.6	1.3	4.2	7.1
18	7.4	3.4	4.1	6.0	3.2	4.2	3.2	2.7	3.2	2.9	6.0	8.8
19	5.6	3.5	3.6	6.2	4.0	5.0	4.1	3.7	3.2	4.1	8.3	7.8
20	7.0	2.6	4.5	5.0	4.1	4.6	3.6	4.4	3.5	2.6	4.9	3.3
21	5.7	3.3	5.4	5.9	12	3.6	3.9	3.9	3.0	3.1	2.5	3.1
22	5.6	3.3	3.5	2.5	7.4	3.7	2.8	4.7	2.8	1.9	2.6	2.8
23	5.9	3.5	4.0	3.3	7.8	3.8	2.2	4.4	1.3	1.2	3.0	2.7
24	4.2	4.6	4.5	5.9	6.5	6.5	3.4	3.9	1.8	1.9	4.0	2.5
25	4.7	4.6	4.7	6.4	5.7	6.7	3.1	3.0	2.3	1.5	7.3	3.0
26	4.6	5.0	4.4	5.6	5.5	6.6	3.2	2.6	2.5	3.2	4.5	2.5
27	3.6	5.2	5.7	5.8	5.8	5.0	4.0	2.8	3.8	2.0	3.8	2.6
28	4.7	5.2	6.4	5.4	6.5	5.8	5.3	4.4	3.3	1.5	4.9	2.5
29	4.5	6.0	5.2	6.1	---	6.2	4.1	6.2	3.6	1.5	5.0	3.4
30	3.8	8.2	18	6.4	---	6.6	4.4	3.5	3.1	2.1	1.9	3.2
31	4.9	---	14	6.4	---	6.9	---	2.8	---	2.5	2.0	---
TOTAL	212.2	150.9	183.1	238.0	145.9	158.2	117.1	130.8	91.3	73.2	119.5	174.8
MEAN	6.85	5.03	5.91	7.68	5.21	5.10	3.90	4.22	3.04	2.36	3.85	5.83
MAX	21	8.2	18	37	12	18	7.9	7.4	3.8	4.1	8.3	11
MIN	2.3	2.6	1.4	2.5	1.4	1.8	1.6	2.6	1.3	1.2	1.9	2.4
AC-FT	421	299	363	472	289	314	232	259	181	145	237	347

CAL YR 1976 TOTAL 2024.79 MEAN 5.53 MAX 24 MIN .26 AC-FT 4020
WTR YR 1977 TOTAL 1795.00 MEAN 4.92 MAX 37 MIN 1.2 AC-FT 3560

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CA

LOCATION.--Lat 37°39'46", long 121°54'19", in Santa Rita Grant, Alameda County, on right bank 250 ft (76 m) upstream from Arroyo Valle, 1.0 mi (1.6 km) downstream from Arroyo Mocho, and 1.8 mi (2.9 km) west of Pleasanton.

DRAINAGE AREA.--224 mi^2 (580 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 300 ft (91 m), from topographic map.

REMARKS.--Records good. Flow partly regulated by South Bay Aqueduct and by waste water from Valley Community Services District (VCSD) sewage disposal plant which enters stream 1.7 mi (2.7 km) upstream from station. Records published for flows of 50 ft^3/s (1.42 m^3/s) or less for water-quality monitoring purposes.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; minimum 2.8 ft^3/s (0.079 m^3/s) Apr. 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; minimum daily, 2.8 ft^3/s (0.079 m^3/s) Apr. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	11	18	16	10	11	5.4	22	3.0	6.5	6.2	6.5
2	29	12	12	---	10	8.3	6.3	10	3.3	5.7	6.7	8.2
3	17	11	13	---	12	8.0	4.6	6.1	4.1	6.2	5.1	6.9
4	14	12	12	25	9.6	10	3.2	5.3	4.2	6.1	6.3	7.5
5	13	12	14	16	9.3	8.0	4.2	5.7	5.1	5.8	8.2	7.8
6	13	12	13	13	10	8.4	6.0	5.9	5.6	5.9	9.1	9.2
7	11	12	13	13	11	12	3.4	17	5.7	5.0	6.8	8.4
8	12	12	12	13	20	13	10	19	5.5	5.9	6.0	8.0
9	12	11	13	15	14	18	14	15	5.1	4.4	7.2	6.7
10	14	12	12	14	10	12	10	7.7	6.1	5.0	7.6	8.0
11	15	18	11	13	9.8	9.2	7.2	8.1	6.6	4.9	7.3	9.0
12	10	16	8.7	21	8.2	7.4	5.6	8.9	7.4	7.0	9.5	9.4
13	11	12	8.2	14	9.0	14	5.2	5.4	6.8	4.7	6.4	10
14	12	24	12	13	6.5	14	5.0	6.0	9.0	4.3	6.3	9.2
15	11	15	11	12	5.5	21	4.7	6.4	8.4	4.0	6.3	7.5
16	12	14	11	12	7.1	---	2.8	5.3	8.4	5.1	6.7	12
17	16	12	12	13	7.3	20	3.3	4.3	8.8	3.5	7.4	11
18	15	10	11	12	6.6	12	4.3	4.4	7.8	4.5	7.4	11
19	10	8.8	9.9	13	8.8	11	5.1	7.5	7.7	7.3	8.3	19
20	13	8.8	9.8	12	10	10	5.3	8.1	8.4	4.7	4.7	12
21	12	9.9	13	13	35	10	4.6	7.3	6.7	6.2	7.3	9.5
22	11	9.8	8.6	11	17	9.0	5.5	9.3	6.5	4.8	7.2	7.5
23	12	9.6	10	9.2	15	10	3.0	8.0	5.0	3.8	8.5	5.2
24	11	10	10	13	12	27	4.1	7.6	4.5	4.2	7.3	6.1
25	11	11	11	13	10	13	6.6	7.5	5.1	4.1	9.3	6.3
26	11	12	9.8	11	9.5	7.8	5.1	4.3	6.3	5.0	10	7.2
27	10	11	12	11	10	7.2	6.0	5.6	7.0	5.1	7.2	6.6
28	12	12	13	11	12	7.9	7.4	5.8	8.7	4.9	4.8	6.4
29	10	13	12	11	---	8.1	7.0	7.7	7.2	4.0	6.9	6.7
30	10	14	---	12	---	8.0	6.2	4.5	6.1	5.0	6.9	7.8
31	12	---	28	12	---	9.8	---	4.4	---	5.7	6.9	---
TOTAL	412	367.9	---	---	315.2	---	171.1	250.1	190.1	159.3	221.8	256.6
MEAN	13.3	12.3	---	---	11.3	---	5.70	8.07	6.34	5.14	7.15	8.55
MAX	30	24	---	---	35	---	14	22	9.0	7.3	10	19
MIN	10	8.8	---	---	5.5	---	2.8	4.3	3.0	3.5	4.7	5.2
AC-FT	817	730	---	---	625	---	339	496	377	316	440	509

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL ANALYSES: Water years 1975 to current year.
SPECIFIC CONDUCTANCE: Water years 1975 to current year.
WATER TEMPERATURES: Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1974 to current year.
WATER TEMPERATURES: December 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since December 1974.

COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,830 micromhos Feb. 23, 1977; minimum, 208 micromhos Jan. 2, 1977.
WATER TEMPERATURES: Maximum, 33.5°C June 26, 1976; minimum, 4.5°C Jan. 2, 1975.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,830 micromhos Feb. 23; minimum, 208 micromhos Jan. 2.
WATER TEMPERATURES: Maximum, 32.5°C July 17, 30; minimum, 7.5°C Dec. 27, 28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 21...	1105	12	1130	7.9	18.0	20	240	44	31
JAN 26...	1115	11	1370	7.0	13.0	7	240	45	30
APR 27...	1045	8.4	1520	7.8	16.5	10	250	45	33
JUL 27...	1040	4.8	1560	7.5	22.5	15	260	47	35

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT 21...	160	661	.90	21.4	17	.05	17	.05	.00
JAN 26...	220	812	1.10	24.1	20	.06	20	2.9	.40
APR 27...	250	953	1.30	21.6	30	.07	30	.73	.30
JUL 27...	270	954	1.30	12.4	24	.08	24	.03	.30

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1210	692	939	1180	1130	1160	1110	875	1010	1170	946	1080
2	1110	716	893	1190	1160	1180	1100	1020	1070	1140	208	789
3	1110	1060	1080	1210	1150	1170	1140	1080	1120	1030	396	702
4	1210	1080	1130	1190	1160	1180	1160	1070	1120	1060	922	981
5	1200	1110	1160	1170	1110	1140	1090	1060	1070	1250	1070	1130
6	1180	1140	1160	1170	1110	1140	1180	1090	1140	1420	1250	1310
7	1180	1140	1160	1150	1080	1120	1190	1150	1170	1460	1370	1420
8	1180	1140	1160	1150	1080	1120	1210	1190	1200	1470	1380	1420
9	1190	1160	1180	1160	1100	1130	1210	1160	1190	1460	1370	1410
10	1160	1100	1130	1160	1090	1130	1190	1160	1170	1410	1290	1350
11	1120	1090	1100	1120	752	985	1210	1180	1190	1330	1230	1290
12	1170	1120	1150	1070	812	983	1210	1180	1200	1310	892	1140
13	1180	1110	1150	1110	1060	1090	1210	1180	1200	1380	1140	1270
14	1180	1090	1130	1050	634	797	1200	1140	1170	1380	1340	1370
15	1210	1150	1180	1040	926	982	1240	1170	1200	1370	1350	1360
16	1210	964	1100	1060	1010	1030	1240	1180	1220	1380	1330	1360
17	1030	940	995	1110	1050	1070	1260	1200	1220	1430	1350	1370
18	1110	981	1010	1150	1100	1120	1250	1200	1230	1420	1340	1390
19	1150	1110	1130	1160	1110	1130	1290	1200	1230	1380	1340	1370
20	1170	1060	1110	1160	1110	1130	1290	1220	1260	1390	1250	1320
21	1180	1100	1150	1170	1130	1150	1270	1180	1220	1390	1240	1330
22	1200	1140	1170	1160	1100	1120	1290	1170	1240	1400	1330	1370
23	1170	1060	1130	1180	1110	1150	1320	1260	1290	1380	1290	1340
24	1160	1050	1110	1200	1150	1180	1310	1250	1280	1380	1330	1360
25	1170	1130	1150	1180	1120	1140	1260	1190	1230	1370	1270	1320
26	1170	1120	1140	1180	1110	1140	1240	1200	1220	1450	1330	1380
27	1200	1150	1180	1220	1160	1180	1240	1150	1210	1410	1370	1390
28	1200	1120	1160	1190	1130	1160	1290	1180	1210	1440	1400	1420
29	1170	1140	1160	1190	1130	1160	1310	1030	1270	1430	1300	1380
30	1170	1130	1150	1210	1030	1110	768	514	619	1430	1380	1400
31	1170	1130	1150	---	---	---	958	530	777	1410	1360	1380
MONTH	1210	692	1120	1220	634	1110	1320	514	1160	1470	208	1290

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1410	1380	1390	1520	1480	1500	1590	1410	1520	1620	820	1150
2	1480	1390	1430	1530	1500	1510	1580	1480	1540	1580	1180	1360
3	1450	1400	1420	1560	1540	1550	1560	1470	1510	1620	1530	1570
4	1460	1400	1430	1560	1390	1460	1570	1490	1520	1620	1550	1580
5	1450	1390	1420	1530	1460	1490	1530	1480	1500	1610	1540	1570
6	1420	1320	1370	1550	1530	1540	1540	1380	1450	1610	1500	1580
7	1410	1380	1390	1560	1540	1550	---	---	---	1540	938	1330
8	1420	700	1170	1550	1490	1520	---	---	---	1190	1010	1100
9	1270	988	1190	1530	1290	1400	---	---	---	1260	1090	1160
10	---	---	---	1560	1360	1440	---	---	---	1380	1270	1330
11	1430	1390	1410	1620	1560	1570	---	---	---	1470	1390	1420
12	1460	1430	1450	1630	1440	1570	---	---	---	1470	1400	1450
13	1480	1440	1470	1540	1370	1490	---	---	---	1540	1400	1450
14	1500	1450	1490	1520	1420	1480	---	---	---	1550	1500	1530
15	1520	1460	1490	1520	672	1340	---	---	---	1560	1500	1530
16	1490	1400	1460	860	364	577	1500	1460	1480	1570	1530	1550
17	1520	1440	1480	1420	920	1200	1490	1430	1460	1570	1530	1550
18	1530	1460	1500	1450	1180	1340	1480	1430	1450	---	---	---
19	1530	1470	1510	1560	1470	1510	1500	1410	1440	---	---	---
20	1530	1310	1450	1550	1490	1520	1460	1390	1430	---	---	---
21	1300	454	873	1550	1500	1520	1520	1390	1440	---	---	---
22	1410	818	1130	1550	1500	1510	1640	1400	1490	---	---	---
23	1830	1420	1560	1530	1200	1440	1570	1480	1520	---	---	---
24	1760	1480	1570	1310	707	1040	1520	1470	1500	1580	1540	1560
25	1560	1510	1550	1320	927	1170	1530	1470	1510	1590	1540	1560
26	1560	1520	1530	1440	1340	1410	1550	1430	1490	1570	1530	1550
27	1560	1480	1520	1540	1400	1470	1580	1490	1550	1740	1540	1600
28	1510	1480	1500	1570	1500	1530	1580	1450	1510	1570	1530	1550
29	---	---	---	1570	1420	1490	1480	1410	1450	1530	1270	1350
30	---	---	---	1470	1350	1400	1510	1340	1430	1570	1310	1410
31	---	---	---	1440	1270	1350	---	---	---	1580	1510	1550
MONTH	1830	454	1410	1630	364	1420	---	---	---	1740	820	1450

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1600	1550	1570	1540	1500	1530	1570	1490	1530	1600	1570	1590
2	1590	1530	1550	1540	1390	1470	1570	1520	1550	1590	1540	1560
3	1620	1570	1600	1530	1420	1480	1560	1490	1530	1550	1510	1540
4	1620	1560	1580	1500	1460	1480	1630	1530	1560	1570	1510	1540
5	1560	1520	1540	1470	1430	1450	1630	1590	1610	1600	1510	1540
6	1550	1490	1520	1490	1460	1470	1600	1580	1580	1590	1520	1560
7	1540	1500	1520	1500	1460	1470	1610	1550	1580	1630	1540	1560
8	1550	1510	1530	1490	1430	1460	1580	1530	1550	1610	1530	1570
9	1540	1490	1520	1510	1440	1480	1630	1570	1590	1660	1590	1620
10	1540	1470	1510	1500	1450	1480	1700	1580	1640	1640	1580	1600
11	1480	1420	1450	1510	1460	1490	1750	1590	1650	1660	1570	1600
12	1500	1460	1480	1600	1440	1520	1750	1590	1640	1640	1520	1560
13	1520	1490	1500	1600	1580	1590	1620	1600	1610	1600	1550	1580
14	1520	1500	1510	1620	1560	1580	1660	1600	1620	1600	1500	1550
15	1520	1490	1500	1620	1550	1580	1680	1620	1640	1580	1530	1560
16	1520	1490	1500	1570	1540	1560	1720	1660	1680	1570	1510	1540
17	1500	1480	1490	1590	1530	1550	1730	1650	1670	1560	1510	1540
18	1490	1450	1470	1600	1540	1570	1650	1600	1630	1550	1510	1520
19	1480	1440	1460	1600	1500	1530	1660	1620	1640	1530	952	1360
20	1460	1430	1450	1630	1550	1590	1640	1600	1620	1580	1430	1530
21	1500	1450	1470	1530	1480	1500	1640	1580	1600	1600	1560	1580
22	1500	1470	1480	1560	1450	1500	1660	1610	1630	1600	1570	1580
23	1500	1480	1490	1570	1450	1520	1690	1590	1640	1600	1580	1590
24	1610	1520	1540	1580	1530	1560	1660	1620	1640	1600	1580	1590
25	1550	1500	1520	1580	1530	1550	1650	1600	1620	1600	1540	1570
26	1560	1480	1520	1590	1470	1520	1690	1610	1640	1590	1520	1550
27	1560	1440	1480	1590	1520	1550	1620	1550	1570	1570	1530	1550
28	1590	1520	1550	1580	1470	1520	1620	1460	1540	1580	1540	1570
29	1540	1470	1500	1640	1570	1600	1560	1450	1510	1570	1560	1560
30	1550	1480	1520	1640	1540	1610	1610	1540	1570	1580	1540	1560
31	---	---	---	1560	1460	1500	1590	1530	1560	---	---	---
MONTH	1620	1420	1510	1640	1390	1520	1750	1450	1600	1660	952	1560

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	18.5	21.5	15.0	12.5	8.5	12.5	10.0	17.0	11.5	18.5	10.5
2	20.5	18.5	21.5	14.0	15.0	9.0	14.0	10.0	14.0	10.0	17.5	10.0
3	25.0	18.0	22.0	13.5	15.5	9.0	12.0	9.5	15.5	9.5	19.0	12.0
4	25.5	17.5	21.5	14.5	15.0	10.0	12.5	9.5	16.0	10.0	19.5	9.5
5	25.5	17.5	21.5	14.0	16.0	11.0	11.5	9.0	16.0	10.5	21.5	10.0
6	26.5	18.0	22.0	13.5	16.5	10.5	13.5	9.0	19.0	11.0	22.0	11.0
7	27.0	19.0	21.5	14.5	16.0	9.0	14.0	8.5	17.5	11.0	21.0	12.0
8	27.0	18.5	20.5	14.5	16.0	9.5	15.0	9.0	16.0	13.0	20.0	13.0
9	26.5	18.5	21.0	15.0	16.0	12.0	15.0	8.5	17.5	12.0	18.5	12.5
10	24.0	19.0	21.0	15.0	16.5	10.5	13.5	8.5	---	---	18.0	10.5
11	25.0	18.0	18.0	15.5	15.5	10.0	13.5	8.0	19.5	12.0	21.0	10.5
12	25.5	17.5	19.5	15.0	17.0	10.5	11.5	9.0	20.5	12.0	20.0	12.0
13	25.5	17.0	18.5	15.0	17.5	11.0	13.5	11.0	20.5	12.5	18.0	11.0
14	24.5	16.0	18.0	15.0	14.5	9.0	13.5	9.5	22.0	12.5	19.0	10.5
15	24.5	16.0	19.5	17.0	17.0	9.5	13.5	10.0	22.5	12.5	15.5	11.5
16	23.0	16.5	20.5	16.0	16.0	8.5	14.0	10.0	22.5	12.0	14.0	9.5
17	23.0	16.5	21.0	15.5	14.5	8.5	14.0	10.5	21.5	13.5	17.0	10.0
18	22.5	16.5	21.5	16.0	16.0	9.5	14.5	9.0	23.0	12.0	20.5	10.5
19	24.0	16.5	19.0	16.0	16.5	8.5	15.0	9.5	21.0	13.5	22.5	11.5
20	22.5	16.5	18.5	16.0	15.5	9.0	14.0	10.0	16.0	13.5	24.0	12.0
21	23.5	15.5	19.0	15.5	14.0	9.0	15.5	13.5	14.0	13.0	25.0	13.0
22	22.5	16.5	18.0	14.5	15.0	9.0	18.0	12.5	18.0	11.5	25.0	13.5
23	22.0	15.5	18.0	15.0	15.0	10.5	18.5	13.0	18.0	12.5	20.0	13.5
24	22.5	15.5	17.5	14.5	15.5	9.0	16.5	10.5	18.5	11.5	14.5	12.0
25	23.5	17.5	18.5	13.5	15.5	8.5	16.0	10.0	19.5	11.0	20.0	10.5
26	21.0	15.5	18.0	11.0	14.0	8.0	17.0	12.5	20.0	10.5	22.0	11.5
27	22.5	13.5	14.0	9.5	14.0	7.5	14.0	10.5	21.5	12.0	23.5	13.0
28	21.5	13.5	15.5	10.0	13.5	7.5	16.0	10.5	19.0	11.5	22.0	12.0
29	21.0	13.0	14.5	9.5	14.0	8.0	15.0	10.0	---	---	21.0	11.0
30	22.5	14.5	13.5	9.0	11.5	9.5	14.0	11.0	---	---	20.5	10.5
31	22.0	15.0	---	---	13.0	10.0	16.0	10.5	---	---	21.0	11.5
MONTH	27.0	13.0	22.0	9.0	17.5	7.5	18.5	8.0	23.0	9.5	25.0	9.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	12.0	20.5	17.0	29.0	18.0	31.0	21.0	29.5	21.0	28.5	18.5
2	22.0	12.0	25.5	15.5	28.0	16.5	30.0	19.5	31.5	22.0	28.0	19.0
3	25.5	12.0	22.5	15.5	29.0	17.0	28.5	18.5	30.0	21.0	29.0	17.5
4	26.5	13.5	26.0	14.0	31.0	17.0	27.5	17.5	30.5	19.5	29.0	18.5
5	26.5	13.5	23.5	14.0	31.5	19.0	29.5	17.5	28.0	20.0	29.5	19.5
6	27.0	14.5	24.0	12.0	30.5	19.5	29.0	17.5	26.5	19.0	30.5	20.0
7	---	---	19.5	13.5	31.5	21.0	30.0	17.5	28.0	19.0	30.0	19.5
8	---	---	19.0	13.5	28.5	19.0	29.0	18.0	29.0	20.0	29.5	19.0
9	---	---	19.0	13.5	21.5	17.5	28.0	18.0	28.0	19.5	29.0	18.5
10	---	---	20.0	14.5	26.0	17.5	30.0	17.5	29.0	20.0	28.0	18.0
11	---	---	18.0	15.0	27.5	17.5	31.0	19.0	28.0	19.5	27.0	18.0
12	---	---	21.5	14.5	27.0	18.0	29.0	19.0	26.0	19.5	26.5	18.5
13	---	---	25.0	14.0	25.0	18.0	29.5	18.5	26.5	18.5	26.5	18.5
14	---	---	24.5	16.0	27.0	17.5	30.0	18.5	29.0	19.0	23.5	19.5
15	---	---	25.5	15.0	29.0	17.0	31.5	19.0	28.5	19.0	23.0	18.5
16	27.5	15.0	25.0	14.5	28.5	18.0	30.0	19.5	28.5	20.0	20.5	18.0
17	27.0	15.5	25.0	14.5	28.5	18.0	32.5	20.5	27.5	20.5	24.5	17.0
18	25.5	15.0	---	---	26.0	18.5	30.5	19.0	28.0	20.0	24.5	18.0
19	26.5	14.5	---	---	27.5	18.0	29.0	20.5	28.0	18.5	21.5	19.0
20	26.5	13.5	---	---	28.5	18.0	30.5	19.0	28.5	19.0	24.0	19.0
21	26.0	13.0	---	---	32.0	19.0	29.5	19.0	30.0	19.5	26.0	19.0
22	26.0	12.5	---	---	32.0	20.0	30.0	18.5	29.5	18.5	26.0	17.0
23	27.5	14.0	---	---	32.0	19.5	30.5	18.5	28.0	20.0	25.5	16.5
24	25.0	14.5	26.0	14.5	32.0	19.0	27.0	19.5	29.0	21.5	25.5	19.5
25	26.0	15.0	25.0	17.0	32.0	20.5	30.5	19.0	28.0	20.0	26.0	18.0
26	24.0	15.5	23.5	17.0	31.0	20.0	28.5	18.0	28.0	20.5	27.0	19.0
27	25.0	14.0	26.5	14.0	31.0	19.5	30.5	18.5	29.0	19.0	26.5	19.5
28	26.0	14.5	26.5	15.0	31.5	20.5	30.5	18.5	31.0	19.5	25.5	20.0
29	25.0	17.0	26.5	16.0	30.0	20.0	32.0	18.5	30.5	21.0	24.5	19.0
30	24.5	16.5	29.5	16.0	32.0	21.0	32.5	20.0	31.0	20.0	25.0	17.5
31	---	---	30.0	17.5	---	---	29.5	20.0	29.0	20.0	---	---
MONTH	---	---	30.0	12.0	32.0	16.5	32.5	17.5	31.5	18.5	30.5	16.5

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, on left bank 100 ft (30 m) upstream from small left-bank tributary, 1.2 mi (1.9 km) downstream from Lang Canyon, and 9.5 mi (15.3 km) southeast of Livermore.

DRAINAGE AREA.--130 mi^2 (337 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1974, published as "above Lang Canyon, near Livermore".

GAGE.--Water-stage recorder. Concrete control since June 19, 1975. Altitude of gage is 750 ft (229 m), from topographic map. Prior to June 19, 1975, at site 1.4 mi (2.3 km) upstream at different datum.

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

AVERAGE DISCHARGE.--14 years, 26.8 ft^3/s (0.759 m^3/s), 19,420 acre-ft/yr (23.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,340 ft^3/s (151 m^3/s) Jan. 25, 1969, gage height, 8.90 ft (2.713 m) site and datum then in use; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.0 ft^3/s (0.20 m^3/s) Jan. 3, gage height, 1.05 ft (0.320 m), no peak above base of 500 ft^3/s (14 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	3.7	.68	.68	.42	0				
2			0	2.5	.60	.68	.34	0				
3			0	5.0	.49	.57	.32	0				
4			0	3.8	.49	.54	.29	0				
5			0	2.9	.49	.60	.30	0				
6			0	2.0	.49	.49	.26	0				
7			0	1.3	.49	.49	.22	0				
8			0	.90	.57	.49	.25	0				
9			0	.65	.68	.62	.34	0				
10			0	.68	.58	.71	.33	0				
11			0	.71	.59	.68	.31	0				
12			0	.93	.49	.68	.23	.01				
13			0	.93	.49	.68	.18	.02				
14			0	.74	.49	.62	.12	0				
15			0	.68	.47	.70	.07	0				
16			0	.68	.44	1.9	.04	0				
17			0	.73	.49	3.3	.05	0				
18			0	.72	.43	2.3	.04	0				
19			0	.68	.38	1.4	.03	0				
20			0	.78	.39	.81	0	0				
21			0	.81	.99	.68	0	0				
22			0	.65	1.4	.61	0	0				
23			0	.53	1.8	.49	0	0				
24			0	.74	1.8	.66	0	0				
25			0	.78	1.4	.68	0	0				
26			0	.78	1.0	.68	0	0				
27			0	.81	.82	.67	0	0				
28			0	.68	.68	.59	0	0				
29			0	.68	---	.49	0	0				
30			0	.49	---	.50	0	0				
31		---	.81	.68	---	.43	---	0	---			---
TOTAL	0	0	.81	38.64	20.11	25.42	4.14	.03	0	0	0	0
MEAN	0	0	.026	1.25	.72	.82	.14	.001	0	0	0	0
MAX	0	0	.81	5.0	1.8	3.3	.42	.02	0	0	0	0
MIN	0	0	0	.49	.38	.43	0	0	0	0	0	0
AC-FT	0	0	1.6	77	40	50	8.2	.06	0	0	0	0

CAL YR 1976 TOTAL 171.37 MEAN .47 MAX 6.6 MIN 0 AC-FT 340
WTR YR 1977 TOTAL 89.15 MEAN .24 MAX 5.0 MIN 0 AC-FT 177

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.
WATER TEMPERATURES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1973 to current year.
SEDIMENT RECORDS: October 1973 to current year.

REMARKS.--Sediment table omitted for period of no flow during July 1 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,050 mg/L Apr. 1, 1974; minimum daily mean, no flow for many days each year.
SEDIMENT DISCHARGE: Maximum daily, 2,500 tons (2,270 tonnes) Mar. 8, 1975; minimum daily, 0 tons (0 tonnes) on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 20 mg/L Jan. 1; minimum daily mean, no flow for many days.
SEDIMENT DISCHARGE: Maximum daily, 0.20 ton (0.18 tonne) Jan. 1; minimum daily, 0 tons (0 tonnes) on many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				---	7.5	11.5	---					
2				---	---	---	---					
3				---	---	9.0	---					
4				8.5	---	---	---					
5				---	---	7.0	16.5					
6				---	---	---	---					
7				---	---	---	---					
8				---	---	---	---					
9				---	---	---	---					
10				---	---	11.5	---					
11				---	---	---	---					
12				---	---	---	---					
13				---	---	---	---					
14				---	---	11.0	---					
15				---	---	---	---					
16				---	---	---	---					
17				---	---	7.5	---					
18				---	---	---	---					
19				---	---	---	---					
20				---	---	---	---					
21				---	---	18.0	---					
22				---	---	---	---					
23				---	---	---	---					
24				---	13.0	---	---					
25				---	---	---	---					
26				---	---	8.5	---					
27				---	---	---	---					
28				---	---	9.0	---					
29				---	---	---	---					
30				---	---	---	---					
31				---	---	---	---					
MONTH				---	---	---	---					

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							0	0	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							0	0	0
22							0	0	0
23							0	0	0
24							0	0	0
25							0	0	0
26							0	0	0
27							0	0	0
28							0	0	0
29							0	0	0
30							0	0	0
31							.81	11	.06
TOTAL	0	0	0	0	0	0	.81	---	.06

	JANUARY			FEBRUARY			MARCH		
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	3.7	20	.20	.68	8	.01	.68	13	.02
2	2.5	14	.09	.60	8	.01	.68	12	.02
3	5.0	11	.15	.49	8	.01	.57	10	.02
4	3.8	10	.10	.49	8	.01	.54	12	.02
5	2.9	10	.08	.49	8	.01	.60	18	.03
6	2.0	19	.10	.49	8	.01	.49	15	.02
7	1.3	12	.04	.49	8	.01	.49	12	.02
8	.90	10	.02	.57	8	.01	.49	12	.02
9	.65	9	.02	.68	8	.01	.62	13	.02
10	.68	5	.01	.58	8	.01	.71	16	.03
11	.71	3	.01	.59	8	.01	.68	15	.03
12	.93	3	.01	.49	8	.01	.68	13	.02
13	.93	3	.01	.49	8	.01	.68	11	.02
14	.74	3	.01	.49	8	.01	.62	9	.02
15	.68	3	.01	.47	8	.01	.70	8	.02
16	.68	3	.01	.44	8	.01	1.9	7	.04
17	.73	3	.01	.49	8	.01	3.3	7	.06
18	.72	3	.01	.43	8	.01	2.3	6	.04
19	.68	3	.01	.38	8	.01	1.4	5	.02
20	.78	3	.01	.39	8	.01	.81	4	.01
21	.81	3	.01	.99	9	.02	.68	3	.01
22	.65	3	.01	1.4	9	.03	.61	3	0
23	.53	3	0	1.8	10	.05	.49	3	0
24	.74	3	.01	1.8	10	.05	.66	3	.01
25	.78	3	.01	1.4	10	.04	.68	4	.01
26	.78	3	.01	1.0	10	.03	.68	5	.01
27	.81	3	.01	.82	10	.02	.67	5	.01
28	.68	3	.01	.68	11	.02	.59	4	.01
29	.68	3	.01	---	---	---	.49	4	.01
30	.49	3	0	---	---	---	.50	4	.01
31	.68	6	.01	---	---	---	.43	4	0
TOTAL	38.64	---	1.00	20.11	---	.46	25.42	---	.58

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	.42	4	0	0	0					
2	.34	4	0	0	0					
3	.32	4	0	0	0					
4	.29	4	0	0	0					
5	.30	19	.02	0	0					
6	.26	9	.01	0	0					
7	.22	8	0	0	0					
8	.25	7	0	0	0					
9	.34	7	.01	0	0					
10	.33	6	.01	0	0					
11	.31	6	.01	0	0					
12	.23	5	0	.01	3					
13	.18	5	0	.02	3					
14	.12	4	0	0	0					
15	.07	4	0	0	0					
16	.04	4	0	0	0					
17	.05	3	0	0	0					
18	.04	3	0	0	0					
19	.03	3	0	0	0					
20	0	0	0	0	0					
21	0	0	0	0	0					
22	0	0	0	0	0					
23	0	0	0	0	0					
24	0	0	0	0	0					
25	0	0	0	0	0					
26	0	0	0	0	0					
27	0	0	0	0	0					
28	0	0	0	0	0					
29	0	0	0	0	0					
30	0	0	0	0	0					
31	---	---	---	0	0					
TOTAL	4.14	---	.06	.03	---	0	0	0	0	
YEAR	89.15		2.16							

11176500 ARROYO VALLE NEAR LIVERMORE, CA

LOCATION.--Lat 37°37'24", long 121°45'28", in Valle de San Jose Grant, Alameda County, on right bank 900 ft (274 m) downstream from highway bridge, 1.1 mi (1.8 km) upstream from Dry Creek, 1.3 mi (2.1 km) downstream from Del Valle Dam, 4.1 mi (6.6 km) south of Livermore, and 6.9 mi (11.1 km) southeast of Pleasanton.

DRAINAGE AREA.--147 mi^2 (381 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1912 to September 1930, October 1957 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as Arroyo del Valle near Livermore, 1912-29.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 510.44 ft (155.582 m) above mean sea level. Prior to November 1914, at site 900 ft (274 m) upstream at different datum. Nov. 1, 1914, to Sept. 30, 1930, at site 300 ft (91 m) upstream at different datum.

REMARKS.--Records good. Flow regulated by Del Valle Reservoir 1.3 mi (2.1 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm^3). Water from Sacramento-San Joaquin Delta imported through South Bay Aqueduct can be pumped into Del Valle Reservoir for storage and later released into the channel for downstream percolation or returned to the South Bay Aqueduct.

AVERAGE DISCHARGE.--29 years (1912-30, 1957-68), 29.6 ft^3/s (0.838 m^3/s), 21,450 acre-ft/yr (26.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft^3/s (346 m^3/s) Apr. 2, 1958, gage height, 10.91 ft (3.325 m); no flow at times. Maximum discharge since construction of Del Valle Dam in 1968, 1,030 ft^3/s (29.2 m^3/s) Feb. 11, 1973, gage height, 5.39 ft (1.643 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1955, reached a stage of 13.93 ft (4.246 m) from floodmarks, discharge, 18,200 ft^3/s (515 m^3/s), on basis of contracted-opening and slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft^3/s (0.76 m^3/s) Sept. 4, gage height, 2.69 ft (0.820 m); minimum daily, 0.11 ft^3/s (0.003 m^3/s) July 23.

.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	.78	4.6	5.6	.42	.29	.29	.38	.27	.18	.19	10
2	5.4	.82	5.3	5.3	.35	.27	.30	.35	.19	.20	.21	10
3	5.2	5.1	4.6	5.6	.35	.22	.32	.25	.22	.21	.19	10
4	5.0	5.2	5.6	4.8	.35	.23	.27	.23	.18	.18	.26	11
5	5.3	5.2	3.8	5.6	.38	.25	.22	.29	.18	.16	.33	10
6	4.5	6.4	6.1	.55	.33	.24	.27	.39	.21	.21	.28	10
7	5.7	5.7	5.4	.53	.27	.25	.28	.48	.26	.25	.36	11
8	4.2	5.7	6.6	.47	.34	.27	.28	.41	.38	.19	.43	11
9	5.9	5.5	5.4	.44	.36	.32	.35	.36	.39	.19	.50	12
10	4.2	5.8	5.1	.44	.39	.27	.34	.32	.31	.19	.58	11
11	6.0	5.4	5.1	.45	.39	.31	.24	.38	.16	.19	.37	11
12	5.0	6.2	5.3	.50	.74	.35	.24	.35	.21	.21	.24	11
13	5.4	4.7	5.2	.44	.89	.36	.27	.32	.26	.23	.29	11
14	5.2	5.3	5.6	.41	.29	.38	.28	.31	.27	.21	.26	9.5
15	8.4	4.7	5.6	.37	.27	.44	.31	.28	.28	.22	.24	1.2
16	4.8	7.3	5.9	.35	.24	.62	.29	.27	.32	.19	.23	1.0
17	5.2	4.8	4.5	.38	.25	.48	.28	.28	.26	.24	.22	.96
18	5.3	5.3	5.7	.41	.27	.40	.26	.41	.27	.22	.24	.81
19	6.2	5.3	4.6	.52	.26	.41	.27	.39	.36	.21	.26	.81
20	1.6	6.8	5.1	.52	.25	.40	.32	.37	.27	.20	.33	.87
21	.79	7.9	4.5	.54	.44	.35	.35	.34	.27	.19	.23	.90
22	.92	6.0	5.4	.49	.32	.43	.30	.33	.17	.21	.26	.94
23	1.0	6.2	5.0	.44	.34	.59	.31	.36	.33	.11	3.4	1.1
24	.89	6.0	5.5	.45	.28	.67	.21	.31	.23	.19	10	1.0
25	.64	4.6	5.2	.44	.27	.59	.34	.34	.16	.22	10	.84
26	.69	7.0	4.6	.44	.29	.40	.60	.29	.17	.16	10	.62
27	.73	6.1	5.2	.47	.25	.26	.60	.32	.23	.22	10	.65
28	.58	6.3	5.2	.49	.24	.22	.58	.26	.20	.27	10	.59
29	.82	4.5	6.7	.41	---	.30	.28	.19	.17	.16	11	.56
30	.99	6.0	7.2	.36	---	.32	.30	.17	.14	.17	11	.48
31	.73	---	5.0	.37	---	.30	---	.16	---	.17	10	---
TOTAL	112.88	162.60	164.6	38.58	9.82	11.19	9.55	9.89	7.32	6.15	91.90	161.83
MEAN	3.64	5.42	5.31	1.24	.35	.36	.32	.32	.24	.20	2.96	5.39
MAX	8.4	7.9	7.2	5.6	.89	.67	.60	.48	.39	.27	11	12
MIN	.58	.78	3.8	.35	.24	.22	.21	.16	.14	.11	.19	.48
AC-FT	224	323	326	77	19	22	19	20	15	12	182	321

CAL YR 1976 TOTAL 1485.62 MEAN 4.06 MAX 8.4 MIN .34 AC-FT 2950
WTR YR 1977 TOTAL 786.31 MEAN 2.15 MAX 12 MIN .11 AC-FT 1560

11176500 ARROYO VALLE NEAR LIVERMORE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1959 to current year.
CHEMICAL ANALYSES: Water years 1953, 1959-66.
WATER TEMPERATURES: Water years 1960-61, 1963 to current year.
SEDIMENT RECORDS: Water years 1963-67.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1959 to September 1961, October 1962 to current year.
SEDIMENT RECORDS: October 1962 to September 1967.

INSTRUMENTATION.--Temperature recorder since October 1963.

REMARKS.--Recorder stopped Oct. 1-4, Oct. 6 to Nov. 3, Feb. 11 to Mar. 2, Mar. 17 to Apr. 5, July 13-20; range in temperature, 16.5°C to 20.0°C, 11.0°C to 22.0°C, 8.0°C to 14.0°C, 9.5°C to 21.5°C, and 19.5°C to 27.5°C, respectively.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 30.5°C June 14, 1966, June 29, 1974; minimum, 4.0°C Jan. 2, Dec. 28, 1966, Dec. 14, 1967.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 30.0°C July 30; minimum, 5.0°C Jan. 9-11.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

11176500 ARROYO VALLE NEAR LIVERMORE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	20.5	16.5	20.5	18.0	25.5	21.5	27.0	24.0	16.0	15.0
2	---	---	20.5	15.0	20.5	16.0	22.0	20.0	28.5	25.0	16.0	15.0
3	---	---	17.5	16.0	20.0	16.0	20.5	18.5	26.0	23.5	16.0	15.0
4	---	---	19.0	14.5	23.5	17.5	19.0	16.5	26.5	23.5	16.5	15.0
5	---	---	18.0	14.5	23.5	20.5	20.0	15.5	25.0	23.0	17.0	15.0
6	20.5	14.5	16.5	14.0	26.5	22.0	21.0	16.0	23.5	22.0	17.0	15.0
7	20.0	16.0	15.5	13.5	27.5	23.5	20.0	17.0	23.0	21.0	18.5	15.5
8	17.0	14.5	13.5	13.0	23.5	21.5	23.5	18.0	24.5	21.5	17.0	16.0
9	18.0	13.5	13.5	12.5	21.5	19.5	22.5	18.5	24.0	21.5	16.5	15.0
10	20.0	12.5	14.0	13.0	21.0	19.0	23.0	18.5	24.0	22.0	17.5	15.0
11	21.0	13.0	13.5	13.0	21.5	18.5	24.5	20.5	24.5	21.0	16.0	15.5
12	22.0	14.0	14.0	13.0	20.5	18.0	25.0	21.0	24.0	22.0	16.0	15.0
13	20.0	15.0	18.0	13.5	19.5	18.0	---	---	22.0	21.0	16.0	15.0
14	19.0	13.5	18.0	15.0	21.5	17.5	---	---	22.0	20.5	15.0	14.0
15	22.0	14.0	18.5	14.0	23.5	18.0	---	---	23.0	20.0	15.0	14.5
16	22.0	15.0	18.5	14.0	22.5	19.0	---	---	23.5	21.5	15.0	14.5
17	21.5	14.0	19.0	13.5	22.5	19.5	---	---	23.0	22.0	17.5	14.5
18	20.5	14.5	14.0	12.5	20.5	17.5	---	---	23.5	21.5	17.5	16.0
19	20.0	14.5	22.0	13.0	21.0	17.0	---	---	23.0	20.5	17.5	17.0
20	21.5	14.0	21.5	15.0	21.5	17.0	---	---	22.0	20.5	17.5	16.5
21	19.5	13.0	20.5	15.0	25.5	19.0	25.5	19.5	24.0	20.5	17.5	16.0
22	18.5	13.0	18.5	15.0	27.5	21.5	26.0	20.0	23.5	20.0	19.0	16.0
23	22.0	14.5	15.5	14.5	26.0	20.0	25.0	21.0	23.0	18.0	18.0	16.0
24	20.0	15.0	20.5	14.5	26.0	20.5	23.5	20.5	19.0	17.5	18.5	17.0
25	20.5	15.0	19.0	16.5	26.5	21.5	24.5	19.0	18.0	17.0	18.0	16.5
26	18.0	14.5	18.5	17.5	26.5	21.5	26.0	18.5	17.5	16.5	17.0	16.5
27	19.0	13.5	20.5	15.5	24.5	20.0	26.0	19.5	17.0	16.0	20.0	17.0
28	18.0	13.5	20.0	15.0	26.0	21.5	25.5	19.5	18.0	16.0	19.5	18.5
29	19.0	16.0	21.0	15.0	24.5	21.5	27.0	20.0	17.5	16.0	19.0	18.5
30	19.0	16.5	24.0	15.5	26.0	21.5	30.0	23.5	17.0	16.0	18.5	16.5
31	---	---	24.5	18.5	---	---	28.5	22.5	16.5	15.5	---	---
MONTH	22.0	12.5	24.5	12.5	27.5	16.0	---	---	28.5	15.5	20.0	14.0

11176600 ARROYO VALLE AT PLEASANTON, CA

LOCATION.--Lat 37°40'02", long 121°53'02", in Valle de San Jose Grant, Alameda County, on right bank 0.4 mi (0.6 km) northwest of Pleasanton, and 5.8 mi (9.3 km) west of Livermore.

DRAINAGE AREA.--171 mi^2 (443 km^2).

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) above mean sea level.

REMARKS.--Records good. Flow regulated by Del Valle Reservoir 10 mi (16 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm^3). Water imported from Sacramento-San Joaquin Delta (see REMARKS for station 11176500). Flow regulated by pumping and gravel operations above station.

AVERAGE DISCHARGE.--11 years (1958-68), 27.7 ft^3/s (0.784 m^3/s), 20,050 acre-ft/yr (24.7 hm^3/yr); 9 years (1969-77), 15.9 ft^3/s (0.450 m^3/s), 11,520 acre-ft/yr (14.2 hm^3/yr). The figure not previously published in the 1976 report, 8 years (1969-76), 17.9 ft^3/s (0.507 m^3/s), 12,970 acre-ft/yr (16.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft^3/s (320 m^3/s) Apr. 3, 1958, gage height, 25.36 ft (7.730 m); no flow at times in most years. Maximum discharge since construction of Del Valle Dam in 1968, 1,060 ft^3/s (30.0 m^3/s) Feb. 13, 1973, gage height, 11.17 ft (3.405 m); maximum gage height, 11.43 ft (3.484 m) Mar. 3, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.1 ft^3/s (0.20 m^3/s) Jan. 2, gage height, 7.45 ft (2.271 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0								
2				.75								
3				.07								
4				0								
5				0								
6				.47								
7				2.1								
8				3.0								
9				4.9								
10				3.7								
11				1.4								
12				1.7								
13				1.1								
14				2.0								
15				1.2								
16				2.5								
17				2.1								
18				.86								
19				1.8								
20				1.4								
21				.80								
22				1.4								
23				.93								
24				1.4								
25				.02								
26				0								
27				0								
28				0								
29				0	---							
30				0	---							
31		---		0	---		---		---			---
TOTAL	0	0	0	35.60	0	0	0	0	0	0	0	0
MEAN	0	0	0	1.15	0	0	0	0	0	0	0	0
MAX	0	0	0	4.9	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	71	0	0	0	0	0	0	0	0

CAL YR 1976 TOTAL 8.89 MEAN .024 MAX 1.9 MIN 0 AC-FT 18
WTR YR 1977 TOTAL 35.60 MEAN .098 MAX 4.9 MIN 0 AC-FT 71

11176600 ARROYO VALLE AT PLEASANTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL ANALYSES: Water year 1975.
SPECIFIC CONDUCTANCE: Water years 1975 to current year.
WATER TEMPERATURES: Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1974 to current year.
WATER TEMPERATURES: December 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since December 1974.

REMARKS.--Specific conductance and water temperature tables omitted for periods of no flow February to September and April to September, respectively.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 736 micromhos Mar. 30, 1976; minimum, 82 micromhos Mar. 2, 1976.
WATER TEMPERATURES: Maximum, 30.0°C July 25, 26, 1975; minimum, 3.0°C Jan. 1, 1975.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 709 micromhos Jan. 19; minimum, 153 micromhos Jan. 2.
WATER TEMPERATURES: Maximum, 12.0°C Jan. 2; minimum, 5.0°C Jan. 7, 9, 10.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1										---	---	---
2										155	153	154
3										163	157	160
4										---	---	---
5										---	---	---
6										185	157	170
7										252	196	223
8										310	262	284
9										352	318	334
10										387	361	372
11										413	395	402
12										426	414	421
13										440	424	431
14										468	448	455
15										489	469	478
16										679	501	655
17										696	680	686
18										702	692	695
19										709	685	694
20										---	---	---
21										---	---	---
22										---	---	---
23										---	---	---
24										---	---	---
25										---	---	---
26										---	---	---
27										---	---	---
28										---	---	---
29										---	---	---
30										---	---	---
31										---	---	---
MONTH										---	---	---

11176600 ARROYO VALLE AT PLEASANTON, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1							---	---				
2							12.0	9.5				
3							9.5	8.0				
4							---	---				
5							---	---				
6							7.5	6.5				
7							7.0	5.0				
8							8.0	5.5				
9							7.5	5.0				
10							7.5	5.0				
11							7.0	5.5				
12							7.0	6.0				
13							7.5	7.0				
14							7.0	6.0				
15							7.5	6.5				
16							7.5	6.0				
17							7.0	6.0				
18							7.5	6.0				
19							8.0	6.5				
20							---	---				
21							---	---				
22							---	---				
23							---	---				
24							---	---				
25							---	---				
26							---	---				
27							---	---				
28							---	---				
29							---	---				
30							---	---				
31							---	---				
MONTH							---	---				

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, on right bank 0.3 mi (0.5 km) upstream from small left-bank tributary, 0.8 mi (1.3 km) downstream from highway bridge, and 3.2 mi (5.1 km) south of Pleasanton.

DRAINAGE AREA.--405 mi^2 (1,049 km^2).

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) above mean sea level. January 1912 to September 1917, at site 3.0 mi (4.8 km) upstream at different datum. October 1917 to September 1930, at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--Records good. Flow partly regulated by Del Valle Reservoir 15 mi (24 km) upstream, capacity, 77,100 acre-ft (95.1 hm^3). Water imported from Sacramento-San Joaquin Delta (see REMARKS for station 11176500). Water from South Bay Aqueduct at times imported through Vallecitos Creek 1.5 mi (2.4 km) downstream.

AVERAGE DISCHARGE.--17 years (water years 1913-19, 1921-30), 42.5 ft^3/s (1.204 m^3/s), 30,790 acre-ft/yr (38.0 hm^3/yr); 8 years (water years 1970-77), 42.8 ft^3/s (1.212 m^3/s), 31,010 acre-ft/yr (38.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 9,810 ft^3/s (278 m^3/s) Jan. 25, 1914; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 487 ft^3/s (13.8 m^3/s) Jan. 2, gage height, 5.62 ft (1.713 m); minimum daily, 4.7 ft^3/s (0.13 m^3/s) June 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	12	19	17	11	12	8.6	21	6.8	7.3	7.8	6.8
2	41	12	14	115	10	10	8.9	15	5.8	5.8	7.5	6.8
3	19	12	14	94	12	10	8.7	10	5.7	6.7	6.6	6.7
4	15	12	14	29	11	11	7.3	11	7.5	6.7	7.5	7.8
5	13	12	15	18	9.7	8.9	7.4	9.9	7.5	6.4	8.4	6.8
6	14	12	15	15	11	8.4	8.7	8.7	7.5	6.8	8.0	8.4
7	12	12	14	13	11	9.2	7.8	16	7.8	6.3	8.8	6.8
8	12	13	13	13	19	10	11	20	7.7	7.0	7.5	6.4
9	12	12	14	15	17	15	16	19	7.2	6.4	7.3	5.6
10	15	12	14	15	11	10	13	11	8.5	7.2	7.5	6.2
11	16	18	13	13	11	8.4	11	11	9.0	6.7	8.0	7.0
12	11	19	11	21	9.5	6.8	9.1	13	9.8	7.0	9.3	7.2
13	11	12	9.7	15	10	14	8.6	9.6	9.6	6.3	8.5	7.2
14	13	29	13	13	8.6	14	8.8	9.6	10	6.7	8.0	6.8
15	11	16	12	12	6.8	23	8.5	9.6	11	6.0	8.4	6.2
16	13	13	12	13	9.1	60	7.8	9.2	10	6.9	7.4	6.8
17	16	14	13	13	8.2	21	8.5	8.1	10	5.8	9.0	6.4
18	16	12	14	12	8.5	12	9.0	7.4	10	5.6	9.4	7.0
19	10	9.8	14	13	9.2	11	9.3	11	10	7.7	9.3	14
20	13	10	14	13	10	10	9.3	11	10	6.5	8.2	11
21	12	10	15	13	45	10	8.1	9.0	9.3	6.6	8.8	8.0
22	12	11	11	13	21	10	9.0	10	9.2	6.6	7.8	7.3
23	12	10	12	9.5	16	11	6.8	9.8	7.1	6.5	7.4	6.8
24	12	11	12	13	14	28	7.9	8.8	4.7	6.6	7.0	6.6
25	11	12	13	13	12	17	8.7	9.0	5.4	6.7	8.8	6.7
26	12	12	12	12	11	11	8.0	8.8	6.3	6.4	9.9	7.7
27	10	11	13	12	11	10	8.5	8.0	6.1	6.7	8.7	6.9
28	12	12	14	11	13	10	9.6	9.1	8.1	6.6	6.9	7.0
29	11	13	13	11	---	11	9.1	10	6.4	6.0	7.0	7.0
30	11	15	71	12	---	11	8.6	9.5	6.7	5.9	6.4	7.0
31	12	---	36	12	---	11	---	7.2	---	6.5	6.5	---
TOTAL	448	390.8	493.7	613.5	356.6	424.7	271.6	340.3	240.7	202.9	247.6	218.9
MEAN	14.5	13.0	15.9	19.8	12.7	13.7	9.05	11.0	8.02	6.55	7.99	7.30
MAX	41	29	71	115	45	60	16	21	11	7.7	9.9	14
MIN	10	9.8	9.7	9.5	6.8	6.8	6.8	7.2	4.7	5.6	6.4	5.6
AC-FT	889	775	979	1220	707	842	539	675	477	402	491	434

CAL YR 1976 TOTAL 4735.2 MEAN 12.9 MAX 84 MIN 5.9 AC-FT 9390
WTR YR 1977 TOTAL 4249.3 MEAN 11.6 MAX 115 MIN 4.7 AC-FT 8430

11177200 VALLECITOS CREEK AT SUNOL, CA

LOCATION.--Lat 37°35'42", long 121°52'51", in Valle de San Jose Grant, Alameda County, on right bank at culvert on Sunol Road, 700 ft (213 m) upstream from mouth, and 0.3 mi (0.5 km) east of Sunol.

DRAINAGE AREA.--7.48 mi^2 (19.37 km^2).

PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL ANALYSES: Water years 1975 to current year.
SPECIFIC CONDUCTANCE: Water years 1975 to current year.
WATER TEMPERATURES: Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1974 to current year.
WATER TEMPERATURES: November 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1974.

COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,270 micromhos Aug. 9, 1977; minimum, 167 micromhos Dec. 19, 1975.
WATER TEMPERATURES: Maximum, 27.5°C Aug. 24, 1975, Aug. 30, 1976; minimum, 2.0°C Jan. 7, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,270 micromhos Aug. 9; minimum, 182 micromhos Jan. 2.
WATER TEMPERATURES: Maximum, 27.0°C May 31; minimum, 2.0°C Jan. 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT									
21...	1025	--	434	8.4	15.0	2	130	25	17
JAN									
26...	1020	14	711	7.9	9.0	7	140	26	19
APR									
27...	1000	32	908	8.2	16.0	30	150	23	22
JUL									
27...	1000	32	1110	8.6	20.0	10	160	20	26

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT									
21...	58	236	.32	--	1.4	.00	1.4	.01	.00
JAN									
26...	140	407	.55	15.4	1.5	.01	1.5	.02	.10
APR									
27...	210	524	.71	45.3	1.1	.00	1.1	.05	.00
JUL									
27...	270	626	.85	54.1	.70	.01	.71	.00	.10

11177200 VALLECITOS CREEK AT SUNOL, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	456	216	374	438	418	427	---	---	---	733	683	707
2	818	338	480	450	408	430	---	---	---	720	182	604
3	554	448	497	464	394	426	---	---	---	854	566	730
4	556	450	503	465	433	450	---	---	---	737	709	719
5	540	514	527	453	425	441	---	---	---	743	677	696
6	550	520	535	444	338	392	---	---	---	768	696	725
7	544	524	535	504	370	437	---	---	---	826	618	717
8	540	526	534	475	367	424	---	---	---	784	772	779
9	542	520	534	477	339	412	---	---	---	792	774	782
10	540	526	533	470	314	381	---	---	---	788	710	771
11	542	526	534	450	328	392	---	---	---	746	650	697
12	534	466	502	513	341	417	---	---	---	781	481	646
13	488	452	470	487	471	478	---	---	---	756	644	699
14	488	460	475	478	414	443	---	---	---	767	655	709
15	482	456	470	548	406	487	692	658	674	762	630	694
16	480	460	469	553	533	544	694	668	681	765	705	730
17	480	458	469	565	531	547	686	662	671	810	688	735
18	478	462	469	596	564	580	708	652	686	777	749	763
19	476	462	468	564	552	558	704	680	690	774	760	767
20	476	452	461	555	541	547	704	670	689	801	767	789
21	458	428	437	543	525	535	696	670	684	780	762	771
22	470	424	449	528	514	523	702	672	688	783	765	774
23	452	432	441	518	484	506	686	632	663	792	780	785
24	446	436	441	504	482	494	648	628	638	785	771	779
25	450	434	443	506	486	494	700	652	680	762	696	735
26	448	426	436	512	492	502	756	696	730	714	666	697
27	446	416	432	---	---	---	778	740	759	662	530	593
28	440	410	427	---	---	---	762	732	744	624	484	554
29	432	410	420	---	---	---	734	680	723	600	444	521
30	438	420	428	---	---	---	772	582	709	630	534	573
31	436	422	429	---	---	---	779	625	690	638	556	596
MONTH	818	216	472	596	314	472	---	---	---	854	182	704

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	610	484	533	978	956	965	828	798	815	916	802	887
2	636	454	543	969	947	960	828	802	817	924	796	870
3	632	518	558	973	953	963	832	808	819	928	898	914
4	604	512	550	984	950	969	832	818	824	942	922	928
5	622	520	557	975	949	960	836	812	824	960	936	950
6	710	588	657	970	944	955	836	812	825	962	946	954
7	692	610	643	963	943	952	834	802	822	962	950	955
8	704	536	621	960	944	952	684	650	672	956	942	950
9	719	559	616	949	861	937	814	648	782	952	920	943
10	780	630	679	928	908	917	822	802	815	914	774	837
11	763	641	688	906	884	895	818	750	779	944	738	852
12	766	558	648	880	852	864	790	684	724	936	770	870
13	788	672	721	870	858	864	838	666	731	966	920	947
14	809	705	745	854	836	843	858	832	842	968	958	963
15	808	678	725	846	594	807	876	844	868	968	946	955
16	728	612	661	1010	490	793	872	864	868	954	942	947
17	762	562	647	894	818	854	880	862	871	952	940	947
18	742	602	666	896	808	870	882	868	875	948	916	938
19	760	610	662	910	878	893	886	864	877	950	932	940
20	884	666	776	909	881	894	880	866	874	946	934	940
21	938	808	920	911	891	900	898	862	882	938	920	930
22	958	938	949	893	881	887	902	872	886	928	920	925
23	972	954	964	885	861	875	898	878	888	920	872	889
24	965	939	954	874	714	811	898	888	892	896	710	793
25	980	936	958	766	662	732	904	890	895	860	734	795
26	985	967	976	906	774	870	898	880	888	874	770	815
27	972	956	965	866	856	860	904	892	897	862	772	809
28	975	959	967	860	848	854	910	878	899	944	840	887
29	---	---	---	863	835	850	914	894	903	892	870	881
30	---	---	---	861	837	851	916	900	908	896	880	885
31	---	---	---	849	818	832	---	---	---	900	884	892
MONTH	985	454	734	1010	490	885	916	648	842	968	710	903

11177200 VALLECITOS CREEK AT SUNOL, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	898	852	873	884	872	878	1240	1180	1200	1060	1040	1050
2	910	836	877	884	866	876	1220	1190	1200	1060	1050	1060
3	930	896	903	886	872	879	1230	1200	1210	1060	1040	1050
4	896	884	889	886	874	881	1250	1210	1230	1050	1040	1050
5	890	876	884	888	872	882	1250	1230	1240	1050	1030	1040
6	888	876	883	890	872	882	1260	1240	1250	1050	1030	1050
7	890	660	847	946	880	902	1260	1250	1260	1050	886	976
8	884	636	811	950	928	939	1260	1230	1250	896	874	887
9	870	732	815	962	942	951	1270	1200	1240	900	880	889
10	858	670	796	972	954	964	1230	1200	1220	894	876	884
11	802	772	795	1020	964	984	1220	1190	1210	902	884	895
12	818	786	800	1030	968	991	1220	1200	1210	904	884	897
13	820	812	816	1030	997	1010	1220	1210	1220	898	884	893
14	826	814	819	1030	998	1020	1230	1210	1220	1030	884	904
15	830	818	824	1060	1010	1040	1230	1210	1220	1040	1010	1020
16	830	816	823	1080	1020	1050	1220	1210	1220	1040	982	1000
17	824	818	821	1090	1030	1050	1220	1200	1210	1030	1010	1020
18	826	818	822	1070	1040	1050	1220	1200	1210	1030	1020	1020
19	828	822	826	1080	1060	1070	1210	960	1140	1030	998	1020
20	832	820	826	1100	1070	1090	1030	1010	1020	1020	924	987
21	844	826	833	1100	1070	1090	1030	1000	1020	1030	930	1010
22	862	830	837	1110	1080	1100	1040	1020	1030	---	---	---
23	840	830	835	1120	1090	1110	1060	1020	1040	---	---	---
24	882	834	863	1120	1100	1110	1060	1040	1050	---	---	---
25	880	872	877	1130	1110	1120	1060	1030	1050	---	---	---
26	882	870	877	1140	1110	1120	1050	1040	1050	---	---	---
27	882	870	879	1150	1120	1130	1050	1030	1050	---	---	---
28	884	870	878	1190	1140	1160	1050	1030	1040	---	---	---
29	882	870	877	1210	1160	1190	1060	1030	1050	---	---	---
30	882	866	876	1220	1160	1190	1050	1040	1050	---	---	---
31	---	---	---	1220	1170	1190	1060	1030	1050	---	---	---
MONTH	930	636	846	1220	866	1030	1270	960	1150	---	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	17.5	17.0	13.5	---	---	9.5	5.5	13.5	6.0	13.5	9.5
2	20.5	17.5	17.0	12.5	---	---	13.0	8.5	10.5	4.5	13.0	9.0
3	24.0	15.5	17.0	11.0	---	---	12.0	8.5	11.5	4.0	13.5	10.5
4	24.0	15.0	17.0	13.0	---	---	10.0	6.0	12.0	3.5	14.0	9.0
5	22.5	19.0	18.5	13.5	---	---	7.5	5.0	12.5	4.0	14.5	9.0
6	23.5	19.0	18.0	10.5	---	---	9.0	3.0	15.0	6.5	14.0	9.0
7	23.5	20.0	18.0	10.0	---	---	8.5	2.0	14.0	6.0	14.5	10.0
8	23.5	20.0	16.5	10.0	---	---	9.5	6.5	13.0	9.5	14.5	10.5
9	23.5	20.0	17.5	10.5	---	---	9.0	5.5	13.5	9.0	14.5	10.5
10	22.5	20.5	17.0	11.0	---	---	9.0	5.0	16.5	8.5	15.0	9.0
11	23.0	19.5	14.5	13.0	---	---	9.0	3.0	17.0	7.5	15.5	9.5
12	21.5	17.0	16.0	13.0	---	---	8.5	5.0	17.5	7.5	13.5	9.5
13	20.0	16.0	16.0	14.0	---	---	9.5	7.0	17.0	7.5	14.0	9.5
14	20.0	15.5	17.5	14.5	---	---	10.0	5.0	17.5	7.5	14.5	8.0
15	19.5	15.5	16.5	15.0	10.0	5.5	10.0	5.5	17.5	7.5	12.5	9.5
16	19.0	15.5	17.5	14.5	10.0	6.0	10.0	4.5	17.5	7.5	15.0	8.5
17	19.5	15.0	17.0	14.0	9.5	5.5	9.5	4.5	17.5	8.5	15.5	8.5
18	19.0	15.5	17.5	14.0	9.5	5.0	9.0	5.0	18.0	6.5	15.5	6.0
19	19.0	16.0	16.0	14.5	9.5	5.5	9.0	6.0	17.5	8.5	16.0	9.5
20	20.0	15.5	15.5	14.5	9.0	5.5	10.0	6.5	12.5	9.5	17.0	10.0
21	20.5	13.0	15.5	14.0	9.5	5.5	11.0	8.0	13.5	12.5	17.5	10.5
22	18.0	13.5	15.5	13.5	9.5	6.5	11.5	8.0	14.0	11.5	17.5	12.0
23	18.0	14.0	15.0	12.5	9.5	6.5	12.0	7.0	14.0	12.0	15.5	13.0
24	18.0	14.5	15.0	12.5	9.0	5.0	11.5	6.5	13.5	11.0	14.5	9.5
25	17.5	14.5	14.5	11.5	9.0	5.0	11.0	7.0	14.5	10.5	20.0	7.5
26	17.0	13.5	13.0	9.5	8.5	4.5	11.0	7.0	14.5	9.5	18.0	10.5
27	17.0	13.0	---	---	9.0	4.5	10.5	4.5	15.5	10.5	18.0	11.5
28	17.0	12.5	---	---	8.5	4.5	12.0	4.5	14.5	11.0	17.0	10.0
29	17.0	13.0	---	---	9.0	4.5	11.5	4.0	---	---	17.0	10.0
30	17.0	13.5	---	---	9.5	7.5	11.0	5.0	---	---	17.0	10.0
31	17.0	14.0	---	---	12.0	7.5	12.5	4.5	---	---	17.0	10.5
MONTH	24.0	12.5	18.5	9.5	---	---	13.0	2.0	18.0	3.5	20.0	6.0

11177200 VALLECITOS CREEK AT SUNOL, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	11.0	21.0	15.5	25.0	15.0	24.0	20.5	23.5	20.0	21.0	17.5
2	17.5	10.5	21.0	13.5	24.0	13.0	23.5	19.5	24.0	20.0	21.0	17.5
3	18.5	10.5	19.5	16.5	20.0	15.0	23.0	19.0	24.0	19.5	20.5	17.0
4	18.5	11.5	20.5	15.5	21.5	16.0	22.0	17.5	24.0	20.0	21.5	18.5
5	19.0	13.0	18.5	15.0	22.0	17.0	22.0	17.5	23.0	19.5	22.0	18.5
6	19.5	13.0	18.5	14.0	21.5	17.5	22.0	17.5	22.0	19.0	22.0	18.5
7	18.0	13.5	17.0	14.0	22.0	18.5	22.0	18.0	22.5	18.5	21.5	17.5
8	15.0	12.0	17.0	14.5	21.0	17.5	22.0	18.0	22.5	19.0	21.0	17.0
9	17.0	11.5	17.5	13.5	19.0	18.0	21.5	17.5	24.0	19.0	21.0	17.0
10	18.0	11.5	17.0	12.5	21.5	18.0	22.0	17.0	24.0	20.0	20.0	16.5
11	23.0	11.0	16.5	12.0	21.5	19.0	22.5	18.5	23.5	20.0	19.5	16.5
12	24.5	10.5	18.5	12.5	20.5	17.0	22.0	17.5	22.0	19.5	19.5	17.0
13	22.0	12.5	19.5	14.5	20.0	17.0	22.0	17.0	22.0	19.0	19.5	16.5
14	19.5	13.5	20.0	15.0	21.0	16.5	22.0	18.0	22.5	19.0	18.0	16.5
15	19.5	14.5	20.0	14.0	21.5	16.5	22.5	18.5	22.5	19.0	19.0	17.5
16	19.5	15.0	18.5	13.5	21.0	16.5	22.5	19.5	22.0	20.0	18.5	17.0
17	19.5	13.5	19.0	13.5	20.5	16.5	23.0	19.0	22.0	19.0	19.5	17.0
18	19.0	14.0	16.0	13.0	19.5	16.5	22.5	18.0	22.5	19.0	19.5	17.0
19	19.0	13.5	19.5	14.5	20.5	16.5	23.0	18.5	22.0	18.5	20.5	17.0
20	19.5	13.5	19.5	14.5	21.0	16.0	23.0	18.5	20.5	17.0	20.0	16.5
21	19.0	13.0	19.5	14.5	22.0	17.0	23.0	18.0	21.0	17.0	20.5	16.5
22	19.5	13.5	16.0	14.5	23.0	18.5	23.0	18.5	21.0	17.0	---	---
23	20.0	14.5	17.5	13.0	22.0	17.5	22.5	18.0	20.5	17.5	---	---
24	19.5	15.0	23.5	13.0	22.5	18.0	21.5	18.0	21.5	18.0	---	---
25	19.5	15.0	22.5	14.0	23.0	19.0	22.0	17.5	21.0	17.0	---	---
26	19.0	14.0	21.0	15.0	23.0	19.0	22.0	17.5	20.5	17.5	---	---
27	19.0	14.5	23.5	13.0	23.0	19.0	22.0	17.5	20.5	17.0	---	---
28	19.5	13.5	20.0	13.5	24.0	20.0	22.5	17.5	21.5	17.5	---	---
29	19.5	15.0	20.0	14.0	23.5	19.5	23.5	18.5	22.0	18.5	---	---
30	19.5	16.5	21.5	14.0	24.5	20.0	23.5	20.0	21.5	18.0	---	---
31	---	---	27.0	15.0	---	---	23.5	20.5	21.5	18.0	---	---
MONTH	24.5	10.5	27.0	12.0	25.0	13.0	24.0	17.0	24.0	17.0	---	---

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, on right bank 0.3 mi (0.5 km) downstream from railroad bridge, and 1.2 mi (1.9 km) northeast of Niles.

DRAINAGE AREA.--633 mi^2 (1,639 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1891 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "at Niles Dam" 1891-1900, and as "at Sunolglen" 1901-21.

REVISED RECORDS.--WSP 1315-B: 1921. WSP 1515: 1951-52, 1956. WSP 1565: 1945.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.65 ft (26.106 m) above mean sea level. 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 by Calaveras Reservoir, usable capacity, 96,800 acre-ft (119 hm^3), most of which is diverted for San Francisco water supply, beginning in 1916 although dam not completed until 1925, by San Antonio Reservoir beginning in February 1965, capacity, 51,000 acre-ft (62.9 hm^3), and by Del Valle Reservoir 23 mi (37 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm^3). Natural flow of stream affected by imported water from Delta-Mendota Canal beginning in 1962. Other diversions from ground-water basin for irrigation of 9,000 acres (36.4 km^2) above station.

AVERAGE DISCHARGE.--71 years (water years 1896-1962), 123 ft^3/s (3.483 m^3/s), 89,050 acre-ft/yr (110 hm^3/yr); 15 years (water years 1963-77), 92.7 ft^3/s (2.625 m^3/s), 67,160 acre-ft/yr (82.8 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft^3/s (821 m^3/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 1963-77), 1.4 ft^3/s (0.040 m^3/s) Dec. 7, 8, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 430 ft^3/s (12.2 m^3/s) Jan. 3, gage height, 4.30 ft (1.311 m); minimum daily, 5.1 ft^3/s (0.14 m^3/s) June 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	34	36	25	14	38	28	43	5.5	35	27	31
2	46	32	34	52	12	38	26	26	5.1	39	27	30
3	24	27	32	152	13	40	26	37	31	38	26	31
4	19	33	31	42	13	40	25	43	44	28	26	31
5	43	29	32	27	12	37	23	42	46	32	27	31
6	44	12	30	20	13	35	28	42	46	33	34	31
7	43	11	29	21	13	37	28	40	57	34	36	30
8	42	11	29	34	14	38	29	46	66	33	34	26
9	42	11	29	34	28	40	38	36	66	34	29	26
10	46	10	30	29	14	30	36	13	67	35	33	27
11	46	13	25	17	13	27	21	19	52	35	32	30
12	41	27	28	23	12	25	11	22	47	32	33	31
13	36	37	26	21	11	27	9.5	37	48	31	34	32
14	33	34	28	16	11	29	34	31	39	34	32	31
15	31	27	30	15	8.3	31	37	29	37	33	32	32
16	32	36	29	15	9.5	82	33	35	41	33	32	26
17	35	37	31	16	8.0	24	33	33	41	34	32	29
18	38	34	29	28	8.0	16	34	30	41	33	29	29
19	34	34	30	33	8.3	30	35	31	40	36	33	29
20	31	34	31	32	27	29	35	36	41	35	34	22
21	18	32	31	27	105	29	30	34	40	33	33	32
22	13	34	31	28	97	33	31	34	39	34	32	33
23	23	33	29	22	84	31	28	19	34	35	31	31
24	26	33	30	27	84	30	27	8.2	36	35	33	30
25	29	34	29	31	69	27	28	7.0	37	35	32	31
26	34	25	30	28	36	24	30	9.2	39	35	32	31
27	32	23	28	15	35	29	39	7.6	41	35	34	29
28	32	24	30	14	36	28	39	19	42	32	32	29
29	28	26	30	14	---	28	36	30	42	32	30	31
30	29	33	76	14	---	28	40	30	39	35	29	32
31	33	---	50	15	---	29	---	15	---	34	29	---
TOTAL	1030	820	993	887	808.1	1009	897.5	884.0	1249.6	1052	969	894
MEAN	33.2	27.3	32.0	28.6	28.9	32.5	29.9	28.5	41.7	33.9	31.3	29.8
MAX	46	37	76	152	105	82	40	46	67	39	36	33
MIN	13	10	25	14	8.0	16	9.5	7.0	5.1	28	26	22
AC-FT	2040	1630	1970	1760	1600	2000	1780	1750	2480	2090	1920	1770

CAL YR 1976 TOTAL 15201.0 MEAN 41.5 MAX 95 MIN 10 AC-FT 30150
WTR YR 1977 TOTAL 11493.2 MEAN 31.5 MAX 152 MIN 5.1 AC-FT 22800

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1906, 1952-73, 1975 to current year.
CHEMICAL ANALYSES: Water years 1906, 1952-67, 1969, 1975 to current year.
SPECIFIC CONDUCTANCE: Water years 1956-57, 1959-62, 1976 to current year.
WATER TEMPERATURES: Water years 1956-73, 1976 to current year.
SEDIMENT RECORDS: Water years 1957-73.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1956 to July 1957, August 1959 to September 1962, October 1975 to current year.
WATER TEMPERATURES: July 1956 to September 1973, October 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1975.

REMARKS.--Unpublished records of daily specific conductance are included in extremes and are available in files of district office.

COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected by Alameda County Water District.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,500 micromhos Jan. 8, 1962; minimum daily, 227 micromhos Feb. 16, 1962.
WATER TEMPERATURES: Maximum daily recorded, 31.0°C June 1, 1960; minimum daily, 2.5°C Dec. 12, 1972.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,440 micromhos Sept. 20; minimum, 355 micromhos Jan. 3.
WATER TEMPERATURES: Maximum, 24.5°C July 30; minimum, 5.5°C Jan. 10, 11, 17, 18.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT											
19...	1000	33	726	7.5	16.0	--	28	--	--	--	--
21...A	0955	16	744	8.2	15.0	5	--	180	36	23	87
NOV											
16...	0815	36	731	7.3	14.5	--	49	--	--	--	--
DEC											
14...	1130	25	858	7.6	6.5	--	25	--	--	--	--
JAN											
18...	1000	26	1200	7.8	5.5	--	23	--	--	--	--
26...A	0950	29	1020	7.2	9.0	--	--	220	42	27	180
FEB											
23...	1000	84	924	7.8	12.5	--	23	--	--	--	--
MAR											
10...	0915	31	1210	7.6	10.5	--	26	--	--	--	--
APR											
27...A	1325	39	--	7.7	18.0	15	--	170	30	24	200
MAY											
18...	0950	28	1100	8.1	14.5	--	45	--	--	--	--
JUN											
15...	1100	37	1010	8.1	17.5	--	21	--	--	--	--
JUL											
13...	0810	35	1110	7.8	18.5	--	26	--	--	--	--
27...A	0945	35	1130	8.0	19.5	15	--	190	28	28	270
AUG											
10...	0810	36	1310	7.9	19.0	--	15	--	--	--	--
SEP											
20...	1230	15	1260	8.1	17.5	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)
OCT											
19...	--	--	--	--	--	6.6	6.6	.01	.01	.71	.50
21...	382	.52	16.5	5.0	.01	--	5.0	--	.02	--	--
NOV											
16...	--	--	--	--	--	5.9	5.7	.10	.11	1.0	.77
DEC											
14...	--	--	--	--	--	7.6	7.0	.00	.00	.46	.65
JAN											
18...	--	--	--	--	--	13	13	.90	.87	1.2	.63
26...	610	.83	47.8	12	.22	--	12	--	.36	--	--
FEB											
23...	--	--	--	--	--	2.8	2.9	.00	.02	.79	.54
MAR											
10...	--	--	--	--	--	12	12	.04	.00	.93	.89
APR											
27...	567	.77	59.7	4.5	.01	--	4.5	--	.04	--	--
MAY											
18...	--	--	--	--	--	5.9	5.9	.02	.00	.98	.97
JUN											
15...	--	--	--	--	--	4.8	5.0	.06	.04	.92	.63
JUL											
13...	--	--	--	--	--	3.9	3.9	.01	.03	.92	.60
27...	657	.89	62.1	3.4	.01	--	3.4	--	.01	--	--
AUG											
10...	--	--	--	--	--	4.7	4.7	.00	.01	.73	.40
SEP											
20...	--	--	--	--	--	11	9.4	.04	.00	.60	.62

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT										
19...	.72	.21	.51	7.3	2.4	2.3	7.1	460	--	--
21...	--	--	--	--	--	--	--	--	--	.00
NOV										
16...	1.1	.22	.88	7.0	2.3	2.0	6.1	--	--	--
DEC										
14...	.46	.00	.65	8.1	2.4	2.2	6.7	--	--	--
JAN										
18...	2.1	.60	1.5	15	2.5	.83	2.5	770	--	--
26...	--	--	--	--	--	--	--	--	--	.20
FEB										
23...	.79	.23	.56	3.6	.82	.57	1.7	--	--	--
MAR										
10...	.97	.08	.89	13	3.5	2.9	8.9	--	--	--
APR										
27...	--	--	--	--	--	--	--	--	--	.10
MAY										
18...	1.0	.03	.97	6.9	1.6	1.3	4.0	--	--	--
JUN										
15...	.98	.31	.67	5.8	2.0	1.9	5.8	--	--	--
JUL										
13...	.93	.30	.63	4.8	1.6	1.5	4.6	440	--	--
27...	--	--	--	--	--	--	--	--	--	.10
AUG										
10...	.73	.32	.41	5.4	2.0	1.8	5.5	--	--	--
SEP										
20...	.64	.02	.62	12	5.8	3.1	9.5	--	4.9	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	726	720	723	884	856	871	833	606	727
2	---	---	---	742	721	726	912	876	892	1030	823	900
3	---	---	---	870	736	790	869	819	838	576	355	470
4	---	---	---	836	824	829	857	845	852	994	576	773
5	---	---	---	832	820	828	864	852	857	994	954	970
6	---	---	---	830	820	825	855	847	851	1060	994	1020
7	---	---	---	980	826	938	851	841	847	1210	1060	1110
8	---	---	---	1000	972	982	862	840	849	1210	1040	1110
9	---	---	---	1030	1000	1010	873	858	867	1060	1030	1040
10	---	---	---	1050	1030	1040	---	---	---	1070	1060	1060
11	---	---	---	1020	1010	1020	---	---	---	1120	1050	1080
12	---	---	---	1000	980	990	---	---	---	1170	1130	1160
13	---	---	---	980	816	882	---	---	---	1180	1110	1160
14	703	667	687	842	768	788	---	---	---	1130	1080	1100
15	703	693	698	845	759	809	---	---	---	1220	1130	1170
16	701	693	697	770	730	752	---	---	---	1250	1220	1240
17	749	705	727	771	747	760	---	---	---	1280	1250	1270
18	759	743	751	771	747	759	---	---	---	1280	1150	1220
19	756	742	752	784	758	768	---	---	---	1130	1040	1060
20	720	710	714	772	742	753	---	---	---	1060	1030	1040
21	743	791	717	768	746	754	---	---	---	1050	1040	1050
22	862	716	792	774	756	764	---	---	---	1070	1050	1060
23	887	835	870	802	734	768	---	---	---	1090	1070	1090
24	836	810	821	770	750	760	---	---	---	1090	1060	1070
25	815	785	799	781	757	768	---	---	---	1060	1030	1050
26	786	754	765	831	781	798	---	---	---	1080	1010	1040
27	751	731	741	848	822	837	---	---	---	1310	1100	1230
28	734	716	723	852	838	845	---	---	---	1330	1280	1310
29	723	717	721	881	863	874	---	---	---	1320	1290	1310
30	732	722	727	897	845	862	---	---	---	1320	1290	1300
31	727	719	724	---	---	---	714	594	656	1330	1300	1310
MONTH	---	---	---	1050	720	833	---	---	---	1330	355	1080

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1350	1310	1330	1110	1080	1100	1100	1040	1080	1080	1070	1080
2	1350	1310	1330	1120	1080	1100	1040	1020	1030	1090	1030	1060
3	1330	1260	1300	1100	1060	1080	1100	1030	1070	1060	1040	1060
4	---	---	---	1100	1060	1080	1100	1070	1080	1050	1020	1030
5	---	---	---	1130	1080	1100	1070	1030	1050	1020	1010	1020
6	---	---	---	1130	1070	1080	1060	1020	1040	1020	1010	1010
7	---	---	---	1150	1100	1120	1080	1040	1060	1060	1020	1040
8	---	---	---	1170	1140	1160	1080	1060	1070	1080	1050	1060
9	---	---	---	1180	1160	1170	1060	1040	1050	1120	1050	1090
10	---	---	---	1220	1080	1170	1060	1040	1050	1150	1090	1120
11	---	---	---	1080	1030	1050	1050	1020	1040	1140	1130	1140
12	---	---	---	1110	1080	1090	1070	1030	1050	1170	1110	1130
13	---	---	---	1140	1060	1070	1110	1070	1080	1160	1140	1140
14	---	---	---	1190	1140	1170	1130	1100	1110	1160	1140	1150
15	---	---	---	1150	1070	1110	1140	1110	1130	1140	1110	1120
16	1340	1300	1320	1200	562	940	1150	1120	1130	1130	1110	1110
17	1320	1280	1300	730	556	678	1140	1120	1130	1120	1110	1110
18	1330	1280	1310	822	730	765	1140	1110	1130	1110	1100	1100
19	1320	1290	1310	992	848	934	1140	1080	1100	1100	1080	1090
20	1360	1100	1310	1050	990	1010	1080	1050	1060	1110	1090	1100
21	1020	716	934	1070	1030	1050	1090	1050	1070	1090	1070	1080
22	880	678	784	1090	1070	1080	1100	1060	1080	1060	1050	1050
23	978	880	919	1090	1030	1060	1100	1060	1080	1060	1040	1050
24	1050	985	1010	1080	1020	1040	1090	1050	1060	1090	1050	1060
25	1050	1010	1030	1260	1080	1180	1110	1090	1100	1200	1100	1170
26	1090	1020	1050	1090	970	998	1140	1110	1130	1230	1190	1210
27	1140	1090	1110	1020	1000	1010	1140	1080	1090	1250	1220	1230
28	1130	1090	1100	1050	1020	1030	1090	1060	1070	1260	1240	1250
29	---	---	---	1070	1050	1060	1120	1080	1110	1240	1180	1210
30	---	---	---	1100	1070	1080	1130	1120	1130	1180	1140	1160
31	---	---	---	1110	1060	1100	---	---	---	1140	1100	1120
MONTH	---	---	---	1260	556	1050	1150	1020	1080	1260	1010	1110

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1110	1070	1090	1080	1050	1070	1250	1210	1220	1080	1070	1070
2	1170	1070	1110	1090	1060	1080	1250	1230	1240	1080	1070	1080
3	1350	1010	1170	1080	1070	1080	1250	1230	1240	1080	1040	1060
4	1020	990	1000	1090	1080	1080	1260	1240	1250	1070	1050	1060
5	1020	986	996	1090	1080	1090	1270	1250	1260	1060	1040	1050
6	1020	994	1000	1090	1070	1080	1280	1240	1260	1050	1030	1040
7	1040	982	1020	1090	1070	1080	1270	1250	1260	1070	1040	1050
8	998	964	977	1090	1070	1080	1280	1260	1270	1060	1040	1050
9	---	---	---	1110	1090	1100	1290	1280	1290	1060	1030	1050
10	---	---	---	1110	1090	1100	1320	1290	1300	1060	1040	1060
11	---	---	---	1120	1100	1110	1320	1290	1300	1070	1040	1060
12	---	---	---	1120	1080	1100	1310	1290	1300	1080	1070	1080
13	---	---	---	1150	1110	1120	1320	1290	1300	1090	1070	1090
14	---	---	---	1150	1130	1140	1300	1270	1280	1100	1080	1100
15	---	---	---	1150	1140	1150	1290	1270	1280	1130	1090	1110
16	1050	1030	1040	1160	1140	1150	1280	1260	1270	1160	1130	1150
17	1050	1020	1030	1170	1150	1160	1280	1250	1260	1260	1160	1210
18	1040	1030	1040	1170	1150	1160	1290	1270	1280	1250	1220	1230
19	1030	1010	1020	1170	1150	1160	1280	1250	1270	1250	1230	1240
20	1010	991	1000	1180	1160	1170	1250	1140	1190	1440	1240	1310
21	1010	975	989	1180	1160	1170	1120	1100	1110	1420	1330	1360
22	994	968	982	1180	1160	1170	1110	1080	1100	1330	1280	1310
23	1020	970	991	1180	1170	1180	1080	1060	1070	1290	1260	1280
24	1020	998	1010	1180	1170	1180	1100	1050	1070	1270	1250	1260
25	1010	996	1000	1190	1170	1180	1100	1090	1090	1260	1230	1250
26	1020	1000	1010	1190	1170	1180	1130	1100	1110	1250	1230	1240
27	1030	1010	1020	1200	1170	1190	1120	1100	1110	1250	1220	1240
28	1050	1020	1030	1200	1180	1190	1120	1090	1100	1230	1210	1220
29	1050	1040	1050	1200	1180	1190	1100	1080	1090	1210	1190	1200
30	1060	1040	1050	1210	1190	1200	1090	1070	1080	1210	1190	1200
31	---	---	---	1220	1200	1210	1070	1060	1070	---	---	---
MONTH	---	---	---	1220	1050	1140	1320	1050	1200	1440	1030	1160

11179000 ALAMEDA CREEK NEAR NILES, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	17.5	15.0	13.5	8.5	7.0	9.5	8.5	9.0	7.5	12.5	10.5
2	18.5	18.0	14.5	13.0	8.5	7.5	11.0	9.5	11.5	9.5	12.0	9.5
3	19.0	17.0	14.5	12.5	8.5	7.0	11.0	9.0	11.5	11.0	13.5	11.5
4	18.5	16.0	14.5	13.0	9.0	7.5	9.5	8.5	---	---	13.0	10.5
5	19.5	17.0	15.0	13.5	8.5	7.5	8.5	7.5	---	---	13.0	10.0
6	20.0	18.0	14.5	13.0	8.5	7.5	7.5	6.0	---	---	13.5	10.5
7	20.5	19.0	14.0	13.0	8.5	7.0	7.0	5.5	---	---	14.0	11.0
8	20.5	18.5	13.5	12.5	10.0	8.5	7.5	6.0	---	---	14.0	12.0
9	20.5	18.5	14.0	12.5	9.5	7.5	7.0	6.0	---	---	15.0	12.0
10	19.5	19.0	14.0	13.0	---	---	7.0	5.5	---	---	13.5	10.5
11	19.5	18.0	13.5	13.5	---	---	7.0	5.5	---	---	13.5	10.0
12	19.5	17.5	14.5	13.5	---	---	8.0	6.5	---	---	14.0	11.5
13	18.5	16.5	14.5	13.5	---	---	9.0	7.5	---	---	12.5	10.0
14	17.5	15.5	15.5	14.0	---	---	9.0	7.5	---	---	12.5	9.5
15	17.5	15.5	15.5	15.0	---	---	8.0	6.5	---	---	12.0	11.0
16	17.5	15.5	15.5	14.5	---	---	7.5	6.0	13.5	11.0	12.0	10.5
17	17.0	15.5	15.0	14.0	---	---	7.5	5.5	14.5	11.5	12.0	10.0
18	17.0	15.5	15.0	14.0	---	---	7.5	5.5	14.0	10.5	13.5	9.5
19	17.0	16.0	15.0	13.5	---	---	8.0	6.5	14.0	11.5	14.5	11.0
20	17.0	15.5	14.5	13.5	---	---	9.0	7.5	12.5	11.5	15.5	12.0
21	17.0	15.0	15.0	13.5	---	---	10.5	9.0	13.5	12.0	16.0	12.0
22	16.0	15.0	14.0	13.0	---	---	11.0	10.0	14.0	12.0	16.5	13.0
23	16.0	14.5	13.5	12.5	---	---	11.0	9.5	13.5	12.5	14.5	13.5
24	16.0	14.5	13.0	12.0	---	---	10.5	8.5	13.5	11.5	13.5	12.0
25	16.5	15.0	12.5	11.5	---	---	10.0	8.5	13.0	10.5	15.0	11.0
26	15.0	14.0	11.5	10.5	---	---	9.5	8.5	13.0	10.5	15.5	11.5
27	14.5	13.0	10.5	8.5	---	---	9.0	6.5	14.0	11.5	16.0	12.5
28	14.0	12.5	8.5	7.0	---	---	8.5	7.0	14.0	11.5	14.5	11.5
29	14.5	12.5	8.0	6.5	---	---	10.0	7.5	---	---	14.0	11.0
30	15.5	13.0	8.5	7.0	---	---	9.5	7.5	---	---	15.0	11.5
31	15.0	13.5	---	---	10.5	9.0	9.0	7.5	---	---	14.5	11.0
MONTH	20.5	12.5	15.5	6.5	---	---	11.0	5.5	---	---	16.5	9.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	12.0	17.5	16.5	21.5	18.5	23.5	21.0	24.0	21.0	20.5	18.0
2	15.5	11.5	19.5	15.5	21.0	17.0	22.5	20.0	23.5	21.0	20.0	18.0
3	16.0	12.0	17.0	15.5	19.5	16.5	21.5	19.0	23.0	20.5	20.5	17.0
4	17.0	12.5	18.0	14.5	21.5	16.5	20.5	18.0	23.0	20.0	21.5	18.0
5	17.5	13.5	17.0	15.0	23.0	18.5	21.0	17.0	22.0	19.0	22.0	19.0
6	18.0	14.0	16.5	14.0	22.0	19.0	21.5	17.5	20.5	19.0	22.0	19.0
7	16.5	14.5	14.5	13.5	22.0	19.0	22.0	18.0	21.0	18.5	22.0	19.0
8	15.0	14.0	15.0	13.5	20.5	18.5	21.5	18.5	21.5	19.0	21.0	18.5
9	16.0	13.0	14.5	13.0	---	---	20.5	18.0	21.5	19.0	20.5	18.0
10	16.0	12.5	14.5	13.5	---	---	21.5	17.5	22.0	19.0	19.5	17.0
11	17.5	13.5	14.5	13.5	---	---	23.0	18.5	22.0	19.5	19.0	16.5
12	18.5	14.0	15.5	13.0	---	---	22.0	19.0	21.0	19.5	18.5	17.0
13	18.0	15.0	17.5	13.5	---	---	22.0	18.5	21.0	19.0	18.5	16.5
14	17.5	13.5	17.5	15.0	---	---	22.5	18.5	21.5	18.5	17.5	17.0
15	18.5	14.5	18.0	14.5	---	---	23.0	19.0	22.0	18.5	17.0	16.0
16	18.5	15.0	17.0	14.5	21.0	18.0	23.5	19.5	21.5	19.0	16.5	16.0
17	18.5	14.5	18.0	14.5	19.5	18.0	24.0	20.5	21.0	19.0	17.5	16.0
18	18.0	14.5	16.0	14.5	18.5	17.0	22.5	20.0	21.5	18.5	18.5	16.0
19	18.0	14.5	19.0	14.5	19.5	16.5	22.5	19.5	21.5	19.0	19.0	17.5
20	18.0	14.0	19.0	15.5	20.0	16.5	22.5	19.0	20.0	18.0	19.5	16.5
21	17.5	14.0	18.5	16.0	22.5	18.0	22.5	19.0	21.0	18.0	19.0	17.0
22	18.0	13.5	16.5	14.5	23.5	19.5	22.5	19.0	21.5	18.0	18.5	16.0
23	18.0	14.0	16.0	14.0	23.0	19.0	22.0	19.0	21.0	18.0	18.5	16.0
24	17.0	14.5	19.0	14.5	23.0	19.0	20.5	18.5	21.5	19.5	19.0	17.5
25	18.0	15.0	19.0	16.0	24.0	20.0	21.5	18.0	21.5	19.0	18.5	16.5
26	17.0	14.5	17.5	16.5	23.5	20.0	22.0	18.5	21.0	19.0	20.0	17.0
27	18.0	14.5	19.5	15.0	23.0	19.5	22.0	18.5	21.0	18.0	20.0	18.0
28	18.0	14.5	19.0	15.5	23.5	19.5	22.0	18.5	22.0	18.0	19.5	18.0
29	18.5	16.0	19.5	15.5	23.0	20.0	23.5	18.5	22.5	19.5	19.0	17.5
30	18.5	16.0	20.5	16.0	24.0	20.0	24.5	20.0	22.0	19.5	18.5	16.0
31	---	---	22.0	17.0	---	---	23.5	20.5	21.0	19.0	---	---
MONTH	18.5	11.5	22.0	13.0	---	---	24.5	17.0	24.0	18.0	22.0	16.0

11180500 DRY CREEK AT UNION CITY, CA

LOCATION.--Lat 37°36'22", long 122°01'22", in Arroyo de la Alameda Grant, Alameda County, on right bank 900 ft (274 m) downstream from bridge on State Highway 238 in Decoto District in Union City, and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--9.39 mi^2 (24.32 km^2).

PERIOD OF RECORD.--October 1916 to September 1919 (published as "near Decoto"), April 1959 to current year.

REVISED RECORDS.--WSP 2129: 1962(M), 1968(P), 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) above mean sea level. Prior to Apr. 1, 1959, at site 1.4 mi (2.3 km) downstream at different datum.

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

AVERAGE DISCHARGE.--21 years, 1.95 ft^3/s (0.055 m^3/s), 1,410 acre-ft/yr (1.74 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 930 ft^3/s (26.3 m^3/s) Oct. 13, 1962, gage height, 5.27 ft (1.606 m) from outside gage, from rating curve extended above 140 ft^3/s (3.96 m^3/s) on basis of slope-area measurement of maximum flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.2 ft^3/s (0.062 m^3/s) Jan. 3, gage height, 1.62 ft (0.494 m), no peak above base of 40 ft^3/s (1.1 m^3/s); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	0	0	0	0	0						0
2	0	0	0	.10	0	0						0
3	0	0	0	.07	0	0						0
4	0	0	0	0	0	0						0
5	0	0	0	0	0	0						0
6	0	0	0	0	0	0						0
7	0	0	0	0	0	0						0
8	0	0	0	0	0	0						0
9	0	0	0	0	0	0						0
10	0	0	0	0	0	0						0
11	0	.01	0	0	0	0						0
12	0	0	0	.01	0	0						0
13	0	0	0	0	0	0						0
14	0	.07	0	0	0	0						0
15	0	0	0	0	0	.11						0
16	0	0	0	0	0	.06						0
17	0	0	0	0	0	0						0
18	0	0	0	0	0	0						0
19	0	0	0	0	0	0						.03
20	0	0	0	0	0	0						0
21	0	0	0	0	.01	0						0
22	0	0	0	0	0	0						0
23	0	0	0	0	0	0						0
24	0	0	0	0	0	.02						0
25	0	0	0	0	0	0						0
26	0	0	0	0	0	0						0
27	0	0	0	0	0	0						0
28	0	0	0	0	0	0						0
29	0	0	0	0	---	0						0
30	0	0	.08	0	---	0						0
31	0	---	0	0	---	0	---		---			---
TOTAL	.07	.08	.08	.18	.01	.19	0	0	0	0	0	.03
MEAN	.002	.003	.003	.006	.0004	.006	0	0	0	0	0	.001
MAX	.07	.07	.08	.10	.01	.11	0	0	0	0	0	.03
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	.1	.2	.2	.4	.02	.4	0	0	0	0	0	.06

CAL YR 1976 TOTAL 2.67 MEAN .0070 MAX .67 MIN 0 AC-FT 5.3
WTR YR 1977 TOTAL 0.64 MEAN .0020 MAX .11 MIN 0 AC-FT 1.3

11180700 PATTERSON CREEK AT UNION CITY, CA

LOCATION.--Lat 37°55'09", long 122°02'50", in Potrero de Los Cerritos Grant, Alameda County, 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) above mean sea level. Prior to Oct. 26, 1966, at site 0.2 mi (0.3 km) downstream at same datum.

REMARKS.--Records fair. This stream is a distributary of Alameda Creek. (See REMARKS for Alameda Creek near Niles). Diversion by Alameda County Water District to percolation ponds between station near Niles and this station; additional percolation to ground water by placing check dams in channel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,500 ft^3/s (297 m^3/s) Feb. 1, 1963, gage height, 20.4 ft (6.22 m) from floodmarks; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,320 ft^3/s (37.4 m^3/s) Jan. 3, gage height, 8.18 ft (2.493 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	0	0	1.9	.18	.03						
2	27	0	0	9.5	.06	0						
3	.14	0	0	353	.10	0						
4	.09	0	0	43	.28	0						
5	.09	0	0	12	.39	0						
6	.09	0	0	13	.31	.08						
7	.09	0	0	2.4	.10	.03						
8	.07	0	0	1.6	.30	0						
9	.05	0	0	.22	2.2	.04						
10	.04	0	0	1.6	.86	1.3						
11	.02	.06	0	2.6	.49	.78						
12	.01	1.0	0	1.1	.32	.15						
13	0	.10	0	.40	.19	.04						
14	0	5.3	0	.11	.06	.02						
15	0	1.0	0	.04	.04	4.3						
16	0	.08	0	.03	.01	43						
17	0	.02	0	.01	.68	56						
18	0	0	0	.01	7.8	3.8						
19	0	.06	0	.05	.92	.30						
20	0	.40	0	.44	.23	.06						
21	0	.05	0	.67	1.7	.03						
22	7.8	.01	0	.49	8.3	.01						
23	10	0	0	.09	.62	0						
24	1.1	0	0	.04	.22	.89						
25	.03	0	0	.04	.04	2.5						
26	0	0	0	.03	.02	1.5						
27	0	0	0	.67	.01	.21						
28	.10	0	0	3.3	.04	.03						
29	.04	0	0	.88	---	.01						
30	.01	0	33	.64	---	0						
31	0	---	41	3.1	---	0	---		---			---
TOTAL	86.77	8.08	74	452.96	26.47	115.11	0	0	0	0	0	0
MEAN	2.80	.27	2.39	14.6	.95	3.71	0	0	0	0	0	0
MAX	40	5.3	41	353	8.3	56	0	0	0	0	0	0
MIN	0	0	0	.01	.01	0	0	0	0	0	0	0
AC-FT	172	16	147	898	53	228	0	0	0	0	0	0

CAL YR 1976 TOTAL 710.36 MEAN 1.94 MAX 186 MIN 0 AC-FT 1410
WTR YR 1977 TOTAL 763.39 MEAN 2.09 MAX 353 MIN 0 AC-FT 1510

11181000 SAN LORENZO CREEK AT HAYWARD, CA

LOCATION.--Lat 37°41'11", long 122°03'44", in San Lorenzo Grant, Alameda County, on right bank at bridge on B Street, just outside city limits of Hayward, 0.5 mi (0.8 km) downstream from Crow Creek, and 0.9 mi (1.4 km) downstream from Don Castro Dam.

DRAINAGE AREA.--37.5 mi^2 (97.1 km^2).

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) above mean sea level. January to September 1940, nonrecording gage on bridge at present site and datum.

REMARKS.--Records fair. Flow partly regulated by Cull Creek Reservoir beginning in October 1962, capacity, 310 acre-ft (382,000 m^3) and Don Castro Reservoir 0.9 mi (1.4 km) upstream beginning in Janaury 1965, capacity, 380 acre-ft (469,000 m^3). A few very small diversions above station for irrigation.

AVERAGE DISCHARGE.--32 years, 14.3 ft^3/s (0.405 m^3/s), 10,360 acre-ft/yr (12.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,460 ft^3/s (211 m^3/s) Oct. 13, 1962, gage height, 19.73 ft (6.014 m) from floodmarks, from rating curve extended above 2,700 ft^3/s (76.5 m^3/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, 24 ft^3/s (0.68 m^3/s) Mar. 15, gage height, 5.36 ft (1.634 m), no peak above base of 350 ft^3/s (9.9 m^3/s); maximum gage height, 9.75 ft (2.972 m) Jan. 2, backwater from temporary dam and culvert 500 ft (152 m) downstream; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	1.2	.28	.84	.21	.23	.32	1.5	.05	.01		0
2	12	3.3	.28	5.5	.16	.36	.32	.40	.04	2.9		0
3	11	3.5	.21	5.3	.14	.32	.24	.13	.03	3.2		0
4	4.6	4.5	.09	1.6	.20	.32	.28	.11	.03	3.4		0
5	1.5	4.6	.09	.82	.21	.28	.24	.07	.03	2.7		0
6	1.0	.16	.09	1.2	.16	.16	.28	.04	.02	1.5		0
7	4.5	.07	.08	.43	.14	.20	.28	.13	.01	.03		0
8	3.7	.06	.07	.13	1.5	.24	.55	.60	.01	.02		0
9	.75	.04	.21	1.3	.45	1.3	.60	.50	.02	.02		0
10	.68	.04	.07	.93	.16	.71	.55	.24	.02	.02		.10
11	.57	1.6	.21	.75	.13	.55	.45	.50	.01	.01		.04
12	.18	.45	.41	.94	.16	.92	.45	.55	.02	.01		0
13	.08	.13	.88	.54	.17	.85	.45	.24	.02	.01		0
14	.06	2.7	.16	.16	.17	.65	.45	.13	.03	.01		0
15	.08	.25	.06	.09	.22	5.8	.36	.10	.03	0		0
16	.08	.14	.09	.33	.19	8.7	.36	.06	.11	0		0
17	.21	.13	.20	.36	.22	1.1	.45	.05	.28	0		0
18	.34	.13	.09	.44	.16	.60	.40	.13	.07	0		0
19	3.1	.13	.06	.25	.18	.45	.32	.65	.05	0		1.2
20	4.6	.11	.20	.48	.48	.40	.16	.13	.04	0		.07
21	.42	.11	.13	.16	3.1	.36	.20	.09	.03	0		.03
22	.34	.11	.25	.11	5.6	.26	.16	.07	.10	0		.03
23	.10	.09	1.4	.11	6.7	.65	.13	.06	.11	0		.03
24	.07	.09	.14	.11	2.8	5.8	.13	.05	.04	0		.02
25	2.7	.14	.08	.13	2.7	2.3	.11	.04	.03	0		.02
26	3.3	.13	1.2	.12	1.1	.78	.08	.03	.02	0		.02
27	.06	.23	.09	.16	1.1	.50	.16	.07	.01	0		.01
28	.03	.28	.09	.40	.25	.40	.13	.04	.01	0		.02
29	.03	.30	.33	.44	---	.32	.10	.03	.01	0		.03
30	.04	.28	8.7	.28	---	.36	.09	.03	.01	0		.02
31	.05	---	1.9	.16	---	.32	---	.03	---	0		---
TOTAL	65.17	25.00	18.14	24.57	28.76	36.19	8.80	6.80	1.29	13.84	0	1.64
MEAN	2.10	.83	.59	.79	1.03	1.17	.29	.22	.043	.45	0	.055
MAX	12	4.6	8.7	5.5	6.7	8.7	.60	1.5	.28	3.4	0	1.2
MIN	.03	.04	.06	.09	.13	.16	.08	.03	.01	0	0	0
AC-FT	129	50	36	49	57	72	17	13	2.6	27	0	3.3

CAL YR 1976 TOTAL 502.66 MEAN 1.37 MAX 40 MIN 0 AC-FT 997
WTR YR 1977 TOTAL 230.20 MEAN .63 MAX 12 MIN 0 AC-FT 457

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA

LOCATION.--Lat 37°40'48", long 122°04'46", in San Lorenzo (Castro) Grant, Alameda County, on left bank at Hayward, 700 ft (213 m) upstream from mouth, and 700 ft (213 m) downstream from small left-bank tributary.

DRAINAGE AREA.--5.51 mi^2 (14.27 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year (seasonal records only, water years 1975 to current year).

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 100 ft (30 m), from topographic map. Recording rain gages at Sydney School, altitude, 400 ft (122 m) at site 2.2 mi (3.5 km) northwest of gaging station and at Proctor School, altitude, 420 ft (128 m) at site 2.6 mi (4.2 km) north of gaging station.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 665 ft^3/s (18.8 m^3/s) Feb. 27, 1973, gage height, 7.15 ft (2.179 m), from rating curve extended above 53 ft^3/s (1.50 m^3/s) on basis of slope-area measurements at gage heights 3.92 ft (1.195 m) and 6.02 ft (1.835 m); minimum daily, 0.07 ft^3/s (0.002 m^3/s) Apr. 28, 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 370 ft^3/s (10.5 m^3/s) Jan. 2, gage height, 4.62 ft (1.408 m), from rating curve extended as explained above, no peak above base of 400 ft^3/s (11 m^3/s); minimum daily, 0.07 ft^3/s (0.002 m^3/s) Apr. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	.20	.24	1.2	.18	.23	.20					
2	.53	.21	.29	32	.18	.19	.20					
3	.34	.21	.31	5.4	.19	.19	.18					
4	.30	.24	.27	.71	.18	.35	.16					
5	.31	.21	.29	.44	.17	.19	.16					
6	.30	.27	.25	.31	.18	.20	.18					
7	.31	.27	.27	.28	.20	.19	.18					
8	.28	.23	.26	.28	9.5	.19	1.6					
9	.31	.22	.25	.33	.33	5.0	.25					
10	.25	.24	.19	.30	.29	.22	.18					
11	.27	8.3	.30	.33	.23	.19	.17					
12	.25	.41	.23	4.9	.23	3.1	.18					
13	.25	2.4	.22	.30	.24	1.5	.16					
14	.23	15	.20	.26	.22	.19	.16					
15	.30	.40	.21	.25	.22	36	.16					
16	.27	.33	.19	.26	.22	13	.15					
17	.26	.33	.18	.26	.22	.56	.15					
18	.25	.33	.19	.28	.21	.37	.16					
19	.27	.31	.24	.27	.21	.29	.13					
20	.22	.30	.18	.27	3.8	.26	.13					
21	.20	.32	.16	.67	9.2	.25	.12					
22	.27	.27	.19	.27	.30	.26	.12					
23	.22	.27	.22	.27	1.5	2.3	.10					
24	.21	.28	.19	.25	.33	14	.08					
25	.26	.28	.18	.25	.25	.48	.11					
26	.16	.28	.17	.24	.22	.32	.17					
27	.19	.24	.18	.21	.20	.28	.09					
28	.19	.29	.18	.17	.55	.27	.07					
29	.21	.24	11	.20	---	.25	.07					
30	.20	.23	39	.19	---	.22	.10					
31	.22	---	1.2	.21	---	.21	---					
TOTAL	21.83	33.11	57.43	51.56	29.75	81.25	5.87					
MEAN	.70	1.10	1.85	1.66	1.06	2.62	.20					
MAX	14	15	39	32	9.5	36	1.6					
MIN	.16	.20	.16	.17	.17	.19	.07					
AC-FT	43	66	114	102	59	161	12					
(†)	.42	.88	1.44	1.33	.97	2.33	.14					
(‡)	.37	.90	1.48	1.10	.95	2.21	.17					

† Precipitation, in inches, at Proctor School.
‡ Precipitation, in inches, at Sydney School.

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972-73, 1975, 1977.
CHEMICAL ANALYSES: Water years 1972-73, 1975, 1977.
SEDIMENT RECORDS: Water years 1972-73.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
AUG 10...	1415	834	7.9	18.0	12.2	20	260	0	51	33	100

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
AUG 10...	45	2.7	2.2	380	0	310	50	82	.4	7.7	514

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NONFILTRABLE RESIDUE (MG/L)	SUSPENDED SOLIDS (MG/L)	VOL. NONFILTRABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 10...	.70	42	42	0	.03	.03	.62	.65	.34	460	40

11181040 SAN LORENZO CREEK AT SAN LORENZO, CA

LOCATION.--Lat 37°41'03", long 122°08'20", in San Lorenzo (Soto) Grant, Alameda County, on left bank 400 ft (122 m) downstream from Washington Avenue bridge in San Lorenzo, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--44.6 mi^2 (115.5 km^2).

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 6.13 ft (1.868 m) above mean sea level (levels by Alameda County Flood Control and Water Conservation District).

REMARKS.--Records fair above 10 ft^3/s (0.28 m^3/s) and poor below. Flow partly regulated by Cull Creek Reservoir beginning in October 1962, capacity, 310 acre-ft (382,000 m^3) and Don Castro Reservoir 7 mi (11 km) upstream beginning in January 1965, capacity, 380 acre-ft (469,000 m^3). A few very small diversions above station.

AVERAGE DISCHARGE.--10 years, 19.8 ft^3/s (0.561 m^3/s), 14,350 acre-ft/yr (17.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,960 ft^3/s (112 m^3/s) Apr. 1, 1974, gage height, 8.22 ft (2.505 m), from rating curve extended above 1,200 ft^3/s (34.0 m^3/s); minimum daily, 0.01 ft^3/s (<0.001 m^3/s) June 30, July 1, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,100 ft^3/s (31.2 m^3/s) Dec. 30 (0300 hrs), gage height, 5.54 ft (1.689 m), no other peak above base of 850 ft^3/s (24 m^3/s); minimum daily, 0.01 ft^3/s (<0.001 m^3/s) June 30, July 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	2.4	1.1	2.8	1.1	1.3	1.4	6.6	.26	.01	.05	.15
2	1.6	6.6	1.1	65	1.0	1.1	1.6	.93	.35	2.6	.04	.55
3	.93	6.9	1.1	14	1.0	1.1	2.1	.69	.32	3.6	.04	.59
4	1.1	8.2	.93	1.9	1.1	1.1	2.0	.55	.15	3.8	.06	.42
5	1.1	12	.81	1.5	1.1	1.1	2.1	.59	.11	4.4	.06	.39
6	.75	2.4	.81	1.4	.93	1.1	2.0	.55	.11	2.6	.10	.42
7	.93	1.3	.69	1.3	.93	1.0	2.0	.93	.13	.32	.13	.39
8	1.1	1.2	.69	1.1	20	1.0	3.6	2.0	.06	.10	.15	.04
9	.93	1.2	.75	1.4	1.2	7.2	2.1	.93	.03	.08	.15	.03
10	.81	1.9	.87	1.1	.81	1.1	2.1	.75	.02	.08	.17	.05
11	.81	20	.78	1.5	.69	.87	2.1	2.0	.02	.08	.17	.10
12	.93	2.3	1.4	5.0	.75	4.6	2.0	1.2	.01	.08	.17	.10
13	.87	6.9	1.3	1.1	.75	2.7	2.0	.42	.01	.10	.15	.10
14	.81	42	1.4	1.0	.69	1.0	2.0	.29	.01	.13	.10	.17
15	1.1	1.5	.64	.93	.69	80	2.0	.26	.02	.15	.08	.19
16	.87	.93	.59	.93	.64	28	1.8	.24	.01	.15	.08	.21
17	1.1	.81	.64	.93	.64	2.3	2.0	.24	.02	.17	.08	.17
18	1.3	.69	.69	.93	.69	1.4	2.0	.75	.02	.19	.08	.40
19	2.4	.69	.64	1.1	.69	1.2	2.1	2.2	.03	.17	.08	4.1
20	11	.81	.64	1.3	4.1	1.1	2.2	.93	.04	.13	.08	1.1
21	11	.87	.75	1.7	11	1.1	2.7	.93	.04	.13	.08	.60
22	1.6	.93	1.0	1.2	1.0	1.0	2.6	1.4	.03	.10	.08	.55
23	1.3	.87	2.1	1.2	2.2	4.2	2.6	1.2	.03	.10	.08	.52
24	1.5	.87	1.2	1.2	1.6	40	2.3	.93	.03	.06	.10	.47
25	3.0	.87	.93	1.3	1.2	5.3	2.3	.75	.02	.06	.11	.45
26	8.5	.87	1.6	1.1	1.2	2.1	3.0	.93	.02	.08	.10	.42
27	2.2	.69	1.0	1.3	1.2	1.8	2.1	.81	.02	.06	.11	.42
28	2.0	1.1	1.1	1.5	1.2	1.7	1.9	.75	.02	.08	.11	.58
29	2.1	1.2	10	1.5	---	1.6	1.8	.69	.02	.08	.17	.54
30	2.1	1.5	97	1.3	---	1.6	1.9	.69	.01	.06	.19	.46
31	2.2	---	4.4	1.0	---	1.6	---	.69	---	.15	.17	---
TOTAL	78.94	130.50	138.65	120.52	60.10	202.27	64.4	32.82	1.97	19.90	3.32	14.68
MEAN	2.55	4.35	4.47	3.89	2.15	6.52	2.15	1.06	.066	.64	.11	.49
MAX	11	42	97	65	20	80	3.6	6.6	.35	4.4	.19	4.1
MIN	.75	.69	.59	.93	.64	.87	1.4	.24	.01	.01	.04	.03
AC-FT	157	259	275	239	119	401	128	65	3.9	39	6.6	29

CAL YR 1976 TOTAL 1162.49 MEAN 3.18 MAX 142 MIN .26 AC-FT 2310
WTR YR 1977 TOTAL 868.07 MEAN 2.38 MAX 97 MIN .01 AC-FT 1720

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, on left bank, at upstream side of Vale Road bridge at Richmond, 3.6 mi (5.8 km) upstream from mouth.

DRAINAGE AREA.--7.79 mi^2 (20.18 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 65.56 ft (19.983 m) above mean sea level.

REMARKS.--Records good except those for Dec. 30 to Mar. 16, which are poor. Minor storage in Lake Anza and Jewel Lake. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165 ft^3/s (4.67 m^3/s) Sept. 19, 1977, gage-height, 3.78 ft (1.152 m); minimum daily, 0.04 ft^3/s (0.001 m^3/s) Aug. 2, 8, 10, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 165 ft^3/s (4.67 m^3/s) Sept. 19 (0600 hrs), gage height, 3.78 ft (1.152 m), no other peak above base of 150 ft^3/s (4.2 m^3/s); minimum daily, 0.04 ft^3/s (0.001 m^3/s) Aug. 2, 8, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	1.5	3.1	4.7	.35	.15	.12	.50	.15	.07	.05	.09
2	.07	1.8	.60	7.9	.23	.12	.12	.12	.12	.07	.04	.12
3	.09	1.8	.18	11	.18	.12	.15	.15	.12	.07	.05	.12
4	.09	1.6	.12	4.4	.35	.12	.15	.15	.12	.09	.05	.09
5	.09	.18	.15	2.1	1.3	.18	.12	.12	.12	.05	.05	.09
6	.09	.23	.15	.87	.60	.18	.15	.15	.09	.07	.05	.07
7	.09	.28	.15	.28	.42	.23	.12	.54	.09	.07	.07	.09
8	.09	.28	.15	.23	1.3	.18	.28	.41	.12	.07	.04	.09
9	.09	.28	.15	.23	2.1	.15	.23	.15	.09	.05	.05	.09
10	.09	.15	.28	.23	.87	.18	.23	.12	.09	.07	.04	.15
11	.09	2.5	.42	.18	.50	.15	.12	.09	.12	.05	.05	.15
12	.09	.15	.15	1.1	.42	.15	.15	.15	.09	.05	.07	.15
13	.09	.33	.15	.28	.35	.18	.18	.18	.12	.07	.07	.12
14	.09	1.0	.18	.23	.42	.18	.15	.15	.09	.09	.07	.18
15	.09	.12	.18	.23	.35	3.9	.15	.15	.09	.07	.05	.15
16	.12	.15	.15	.23	.35	6.6	.18	.15	.09	.07	.07	.28
17	.12	.15	.18	.23	.28	.72	.15	.18	.09	.09	.07	.35
18	.12	.23	.15	.28	.35	.35	.12	.18	.12	.05	.09	.66
19	.12	.15	.23	.23	.28	.23	.15	.15	.09	.05	.09	8.0
20	.15	.12	.15	.18	.42	.18	.15	.15	.12	.05	.23	.12
21	.12	.12	.23	.12	2.8	.15	.12	.12	.12	.05	.09	.15
22	.12	.15	.23	.15	.87	.15	.12	.12	.12	.07	.09	.15
23	.12	.15	.23	.12	1.5	.28	.15	.15	.15	.05	.09	.15
24	.15	.15	.15	.15	1.8	.87	.18	.15	.12	.05	.12	.12
25	.12	.15	.15	.18	.60	.42	.28	.18	.09	.05	.09	.15
26	.44	.15	.28	3.1	.28	.23	.15	.18	.09	.05	.09	.07
27	1.3	.18	.23	1.5	.23	.15	.15	.15	.07	.07	.09	.09
28	1.1	.23	.28	.60	.18	.15	.18	.15	.05	.05	.07	.85
29	1.3	.18	1.8	.60	---	.15	.15	.15	.07	.05	.15	1.2
30	1.5	.18	16	.50	---	.15	.15	.15	.09	.07	.09	.09
31	1.8	---	9.3	.35	---	.15	---	.15	---	.05	.07	---
TOTAL	13.14	14.64	35.85	42.48	19.68	17.10	4.80	5.59	3.10	1.93	2.39	14.18
MEAN	.42	.49	1.16	1.37	.70	.55	.16	.18	.10	.062	.077	.47
MAX	3.2	2.5	16	11	2.8	6.6	.28	.54	.15	.09	.23	8.0
MIN	.07	.12	.12	.12	.18	.12	.12	.09	.05	.05	.04	.07
AC-FT	26	29	71	84	39	34	9.5	11	6.1	3.8	4.7	28

CAL YR 1976 TOTAL 157.90 MEAN .43 MAX 16 MIN .05 AC-FT 313
WTR YR 1977 TOTAL 174.88 MEAN .48 MAX 16 MIN .04 AC-FT 347

11181390 WILDCAT CREEK AT VALE ROAD AT RICHMOND, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to September 1977.
WATER TEMPERATURES: October 1976 to September 1977.
SEDIMENT RECORDS: October 1976 to September 1977.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1976 to September 1977.
SEDIMENT RECORDS: October 1976 to September 1977.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 521 mg/L Sept. 19; minimum daily mean, 1 mg/L many days.
SEDIMENT DISCHARGE: Maximum daily, 115 tons (104 tonnes) Sept. 19; minimum daily, 0 tons (0 tonnes) many days.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	9.0	---	---		---		---		---
2	---	---	---	---	15.0	17.0		---		---		---
3	---	---	---	9.0	---	---		---		---		---
4	---	---	---	---	---	---		20.0		---		---
5	---	---	---	11.0	20.0	17.0		---		---		---
6	---	---	21.5	---	---	---		---		---		---
7	---	---	---	---	17.0	18.0		---		---		---
8	---	---	18.0	11.0	15.0	---		---		---		23.5
9	---	---	---	---	12.0	18.5		---		---		---
10	---	18.5	---	14.0	---	---		---		---		---
11	---	---	19.0	---	---	---		---		---		---
12	24.0	---	---	11.0	18.0	17.5		---		---		---
13	---	---	18.0	15.0	---	---		---		---		---
14	---	---	---	---	19.0	15.5		---		---		---
15	---	---	---	15.0	---	10.0		---		---		---
16	---	---	---	---	20.0	8.5		---		---		---
17	---	---	---	16.0	---	---		---		---		---
18	---	---	---	---	---	---		---		---		---
19	---	---	---	18.0	17.5	11.5		---		---		---
20	---	---	18.0	---	---	---		---		---		---
21	---	---	---	---	14.0	14.5		---		---		---
22	---	---	20.0	20.0	---	---		---		---		---
23	---	---	---	---	12.0	16.5		---		---		---
24	---	---	---	20.0	---	12.5		---		---		---
25	---	---	18.0	---	16.0	---		---		22.5		---
26	---	---	---	10.0	14.0	---		---		---		---
27	---	---	17.0	---	---	---		24.0		---		---
28	---	---	---	---	19.0	---		---		---		---
29	---	---	19.0	16.0	---	---		---		---		---
30	---	---	---	---	---	---		---		---		---
31	---	---	---	19.0	---	---		---		---		---
MONTH	---	---	---	---	---	---		---		---		---

11181390 WILDCAT CREEK AT VALE ROAD AT RICHMOND, CA--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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	3.2	145	12	1.5	3	.01	3.1	28	.33
2	.07	2	0	1.8	3	.01	.60	15	.02
3	.09	1	0	1.8	3	.01	.18	12	.01
4	.09	1	0	1.6	2	.01	.12	11	0
5	.09	1	0	.18	3	0	.15	10	0
6	.09	1	0	.23	2	0	.15	5	0
7	.09	1	0	.28	3	0	.15	5	0
8	.09	1	0	.28	3	0	.15	6	0
9	.09	1	0	.28	7	.01	.15	6	0
10	.09	1	0	.15	5	0	.28	8	.01
11	.09	1	0	2.5	134	3.2	.42	34	.04
12	.09	1	0	.15	8	0	.15	22	.01
13	.09	1	0	.33	5	.02	.15	18	.01
14	.09	1	0	1.0	22	.17	.18	17	.01
15	.09	1	0	.12	7	0	.18	16	.01
16	.12	3	0	.15	10	0	.15	15	.01
17	.12	2	0	.15	14	.01	.18	14	.01
18	.12	2	0	.23	9	.01	.15	13	.01
19	.12	1	0	.15	7	0	.23	12	.01
20	.15	3	0	.12	5	0	.15	12	0
21	.12	2	0	.12	8	0	.23	13	.01
22	.12	1	0	.15	11	0	.23	14	.01
23	.12	1	0	.15	10	0	.23	15	.01
24	.15	2	0	.15	10	0	.15	12	0
25	.12	2	0	.15	8	0	.15	9	0
26	.44	4	.01	.15	10	0	.28	6	0
27	1.3	4	.01	.18	10	0	.23	5	0
28	1.1	3	.01	.23	8	0	.28	3	0
29	1.3	3	.01	.18	15	.01	1.8	57	1.9
30	1.5	3	.01	.18	12	.01	16	410	18
31	1.8	3	.01	---	---	---	9.3	75	1.9
TOTAL	13.14	---	12.06	14.64	---	3.48	35.85	---	22.32

	JANUARY			FEBRUARY			MARCH		
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	4.7	22	.33	.35	8	.01	.15	5	0
2	7.9	180	3.8	.23	7	0	.12	9	0
3	11	73	2.2	.18	7	0	.12	7	0
4	4.4	17	.20	.35	7	.01	.12	6	0
5	2.1	11	.06	1.3	10	.04	.18	5	0
6	.87	8	.02	.60	6	.01	.18	4	0
7	.28	6	0	.42	5	.01	.23	4	0
8	.23	4	0	1.3	45	.16	.18	5	0
9	.23	4	0	2.1	8	.05	.15	6	0
10	.23	5	0	.87	3	.01	.18	6	0
11	.18	5	0	.50	2	0	.15	5	0
12	1.1	22	.07	.42	1	0	.15	5	0
13	.28	4	0	.35	2	0	.18	5	0
14	.23	3	0	.42	3	0	.18	5	0
15	.23	9	.01	.35	4	0	3.9	65	.68
16	.23	8	0	.35	3	0	6.6	90	1.6
17	.23	6	0	.28	3	0	.72	29	.06
18	.28	8	.01	.35	3	0	.35	7	.01
19	.23	10	.01	.28	3	0	.23	3	0
20	.18	8	0	.42	10	.01	.18	3	0
21	.12	6	0	2.8	190	1.4	.15	3	0
22	.15	3	0	.87	17	.04	.15	3	0
23	.12	6	0	1.5	33	.13	.28	5	0
24	.15	5	0	1.8	6	.03	.87	59	.47
25	.18	4	0	.60	1	0	.42	9	.01
26	3.1	74	.62	.28	3	0	.23	8	0
27	1.5	7	.03	.23	3	0	.15	5	0
28	.60	3	0	.18	3	0	.15	3	0
29	.60	3	0	---	---	---	.15	5	0
30	.50	5	.01	---	---	---	.15	8	0
31	.35	9	.01	---	---	---	.15	5	0
TOTAL	42.48	---	7.38	19.68	---	1.91	17.10	---	2.83

11181390 WILDCAT CREEK AT VALE ROAD AT RICHMOND, CA--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	.12	4	0	.50	16	.08	.15	3	
2	.12	4	0	.12	5	0	.12	3	
3	.15	4	0	.15	5	0	.12	2	
4	.15	4	0	.15	5	0	.12	2	
5	.12	4	0	.12	5	0	.12	2	
6	.15	4	0	.15	4	0	.09	2	
7	.12	3	0	.54	8	.04	.09	2	
8	.28	6	.01	.41	6	.02	.12	3	
9	.23	4	0	.15	5	0	.09	2	
10	.23	4	0	.12	4	0	.09	2	
11	.12	3	0	.09	4	0	.12	3	
12	.15	3	0	.15	3	0	.09	3	
13	.18	3	0	.18	3	0	.12	2	
14	.15	3	0	.15	3	0	.09	2	
15	.15	3	0	.15	3	0	.09	2	
16	.18	3	0	.15	3	0	.09	2	
17	.15	3	0	.18	3	0	.09	2	
18	.12	3	0	.18	3	0	.12	2	
19	.15	3	0	.15	3	0	.09	2	
20	.15	3	0	.15	3	0	.12	2	
21	.12	3	0	.12	3	0	.12	1	
22	.12	3	0	.12	3	0	.12	1	
23	.15	3	0	.15	3	0	.15	1	
24	.18	3	0	.15	3	0	.12	1	
25	.28	9	.02	.18	3	0	.09	1	
26	.15	4	0	.18	3	0	.09	1	
27	.15	3	0	.15	3	0	.07	1	
28	.18	3	0	.15	3	0	.05	1	
29	.15	3	0	.15	3	0	.07	1	
30	.15	4	0	.15	2	0	.09	1	
31	---	---	---	.15	2	0	---	---	
TOTAL	4.80	---	.03	5.59	---	.14	3.10	---	0

	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	.07	1		.05	1		.09	1	0
2	.07	1		.04	1		.12	1	0
3	.07	1		.05	1		.12	1	0
4	.09	1		.05	1		.09	1	0
5	.05	1		.05	1		.09	1	0
6	.07	1		.05	1		.07	1	0
7	.07	1		.07	1		.09	1	0
8	.07	1		.04	1		.09	11	0
9	.05	1		.05	1		.09	6	0
10	.07	1		.04	1		.15	2	0
11	.05	1		.05	1		.15	1	0
12	.05	2		.07	1		.15	1	0
13	.07	2		.07	1		.12	1	0
14	.09	2		.07	1		.18	5	0
15	.07	2		.05	1		.15	3	0
16	.07	2		.07	1		.28	3	0
17	.09	2		.07	1		.35	3	0
18	.05	1		.09	1		.66	7	.03
19	.05	1		.09	1		8.0	521	115
20	.05	1		.23	5		.12	5	0
21	.05	1		.09	3		.15	5	0
22	.07	1		.09	2		.15	5	0
23	.05	1		.09	1		.15	4	0
24	.05	2		.12	1		.12	4	0
25	.05	4		.09	1		.15	4	0
26	.05	3		.09	1		.07	3	0
27	.07	2		.09	1		.09	3	0
28	.05	1		.07	1		.85	15	.12
29	.05	1		.15	3		1.2	34	.71
30	.07	1		.09	1		.09	5	0
31	.05	1		.07	1		---	---	---
TOTAL	1.93	---	0	2.39	---	0	14.18	---	115.86
YEAR	174.88		166.01						

11181390 WILDCAT CREEK AT VALE ROAD AT RICHMOND, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	TOTAL SEDIMENT (MG/L)	TOTAL SEDIMENT DISCHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM
NOV										
11...	0845	--	11	515	15	30	41	51	60	67
FEB										
08...	0305	15.0	1.3	88	.31	--	--	--	--	--
21...	0735	14.0	4.4	136	1.6	--	--	--	--	--
21...	1135	14.0	25	1250	84	27	37	47	59	74
21...	1530	19.0	4.4	105	1.2	--	--	--	--	--
MAR										
15...	1200	10.5	11	118	3.5	--	--	--	--	--
15...	1740	9.5	15	128	5.2	--	--	--	--	--
15...	2110	9.5	11	58	1.7	--	--	--	--	--
16...	0800	8.5	8.8	88	2.1	--	--	--	--	--
24...	0840	9.5	9.8	235	6.2	--	--	--	--	--
24...	1105	12.5	1.8	246	1.2	--	--	--	--	--

DATE	TOTAL SED. FALL DIAM. % FINER THAN .062 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .062 MM	TOTAL SED. FALL DIAM. % FINER THAN .125 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .125 MM	TOTAL SED. FALL DIAM. % FINER THAN .250 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .250 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .500 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 1.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 4.00 MM
NOV										
11...	--	70	--	73	--	76	85	95	100	--
FEB										
08...	--	97	--	100	--	--	--	--	--	--
21...	--	65	--	74	--	82	93	98	100	--
21...	86	--	96	--	100	--	--	--	--	--
21...	--	59	--	70	--	82	90	97	100	--
MAR										
15...	--	99	--	100	--	--	--	--	--	--
15...	--	68	--	72	--	74	81	89	92	100
15...	--	97	--	99	--	100	--	--	--	--
16...	--	97	--	100	--	--	--	--	--	--
24...	--	99	--	100	--	--	--	--	--	--
24...	--	57	--	59	--	64	77	96	100	--

11182030 RHEEM CREEK AT SAN PABLO, CA

LOCATION.--Lat 37°58'38", long 122°21'10", in San Pablo Grant, Contra Costa County, on left bank 50 ft (15 m) downstream from Santa Fe Railway bridge at San Pablo, and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--1.49 mi^2 (3.86 km^2).

PERIOD OF RECORD.--December 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 13.63 ft (4.154 m) above mean sea level (Corps of Engineers bench mark). 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.--16 years (water years 1962-77), 1.33 ft^3/s (0.038 m^3/s), 964 acre-ft/yr (1.19 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 477 ft^3/s (13.5 m^3/s) Dec. 20, 1969, gage height, 6.95 ft (2.118 m), from rating curve extended above 150 ft^3/s (4.25 m^3/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 177 ft^3/s (5.01 m^3/s) Sept. 19 (0545 hrs), gage height, 4.74 ft (1.445 m), no other peak above base of 150 ft^3/s (4.2 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	.26	.02	1.5	.07	0	0	2.0				0
2	.41	.30	.02	15	.04	0	0	0				0
3	.38	.30	0	2.3	.01	0	0	0				0
4	.38	.13	.03	.18	.02	0	0	0				0
5	.38	.08	.06	.12	.02	0	0	0				0
6	.35	.03	.05	.08	.08	0	0	0				0
7	.38	.05	.01	.07	.05	0	0	1.3				0
8	.49	.02	0	.07	1.9	0	.76	1.2				0
9	.41	.01	.01	.06	.09	0	0	.38				0
10	.38	.13	.03	.09	.03	0	0	.05				0
11	.45	5.0	.03	.07	.01	0	0	0				0
12	.38	.09	.11	1.3	.01	0	0	0				0
13	.49	.19	.03	.08	0	0	0	0				0
14	.38	2.9	.03	.09	0	0	0	0				0
15	.53	.10	.01	.06	0	14	0	0				0
16	.35	.06	0	.05	0	4.9	0	0				0
17	.35	.04	.01	.05	0	.14	0	0				0
18	.35	.03	0	.05	0	.07	0	0				0
19	.32	.01	.03	.06	0	.03	0	.02				9.1
20	.30	.01	.08	.06	.85	.01	0	0				0
21	.38	.01	.03	.06	3.0	0	0	0				0
22	.30	.09	.06	.04	.08	0	0	0				0
23	.32	.04	.04	.04	2.5	.81	0	0				0
24	.30	.02	.02	.08	.06	4.2	0	.02				0
25	.30	.01	.01	.06	.01	.10	1.5	0				0
26	.38	.02	0	.06	0	.04	.03	0				0
27	.28	0	.04	.03	0	0	0	0				0
28	.28	0	.03	.05	0	0	0	0				.59
29	.30	.01	3.1	.07	---	0	0	0				.54
30	.28	.01	23	.09	---	0	0	0				0
31	.28	---	.40	.10	---	0	---	0	---			---
TOTAL	19.56	9.95	27.29	22.02	8.83	24.30	2.29	4.97	0	0	0	10.23
MEAN	.63	.33	.88	.71	.32	.78	.076	.16	0	0	0	.34
MAX	8.7	5.0	23	15	3.0	14	1.5	2.0	0	0	0	9.1
MIN	.28	0	0	.03	0	0	0	0	0	0	0	0
AC-FT	39	20	54	44	18	48	4.5	9.9	0	0	0	20

CAL YR 1976 TOTAL 249.69 MEAN .68 MAX 23 MIN 0 AC-FT 495
WTR YR 1977 TOTAL 129.44 MEAN .35 MAX 23 MIN 0 AC-FT 257

11182100 PINOLE CREEK AT PINOLE, CA

LOCATION.--Lat 37°58'21", long 122°14'43", in Pinole Grant, Contra Costa County, on left bank 0.2 mi (0.3 km) downstream from county bridge on Pinole Valley Road, 0.8 mi (1.3 km) upstream from Pinole city boundary.

DRAINAGE AREA.--10.0 mi^2 (25.9 km^2).

PERIOD OF RECORD.--December 1938 to September 1977 (discontinued). Monthly discharge only for water years 1939-59, published in WSP 1735.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 170 ft (52 m), from topographic map.

REMARKS.--No storage or diversion above station except for minor stock ponds; some inflow from ground-water withdrawals during irrigation season.

COOPERATION.--Records furnished by East Bay Municipal Utility District and reviewed by Geological Survey.

AVERAGE DISCHARGE.--38 years (water years 1940-77), 3.71 ft^3/s (0.105 m^3/s), 2,690 acre-ft/yr (3.32 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,660 ft^3/s (47.0 m^3/s) Apr. 2, 1958, gage height, 11.63 ft (3.545 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft^3/s (0.37 m^3/s) Feb. 21, gage height, 2.08 ft (0.634 m), no peak above base of 200 ft^3/s (5.7 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.04	.17	.21	.14	.06				
2			0	.06	.21	.17	.19	.06				
3			0	.26	.17	.14	.16	.04				
4			0	.21	.17	.12	.14	.04				
5			0	.15	.19	.10	.13	.04				
6			0	.15	.20	.09	.13	.04				
7			0	.23	.17	.09	.14	.04				
8			0	.23	.33	.09	.14	.04				
9			0	.23	.46	.10	.14	.04				
10			0	.25	.27	.10	.15	.04				
11			0	.25	.21	.10	.14	.04				
12			0	.41	.21	.09	.12	.04				
13			0	.46	.19	.10	.12	.04				
14			0	.16	.17	.08	.09	.04				
15			0	.16	.17	.64	.08	.04				
16			0	.14	.17	3.4	.07	.04				
17			0	.21	.17	.58	.07	.04				
18			0	.27	.17	.33	.06	.03				
19			0	.37	.17	.29	.06	.03				
20			0	.42	.18	.29	.06	.03				
21			0	.42	2.8	.27	.06	.03				
22			0	.44	1.1	.25	.06	.02				
23			0	.46	.72	.21	.06	.02				
24			0	.48	.65	.29	.05	.02				
25			0	.48	.53	.53	.05	.01				
26			0	.42	.42	.27	.05	0				
27			0	.42	.29	.21	.05	0				
28			0	.44	.21	.17	.05	0				
29			.01	.44	---	.12	.05	0				
30			.05	.42	---	.09	.05	0				
31		---	.04	.21	---	.09	---	0	---			---
TOTAL	0	0	.10	9.29	10.87	9.61	2.86	.91	0	0	0	0
MEAN	0	0	.003	.30	.39	.31	.095	.029	0	0	0	0
MAX	0	0	.05	.48	2.8	3.4	.19	.06	0	0	0	0
MIN	0	0	0	.04	.17	.08	.05	0	0	0	0	0
AC-FT	0	0	.2	18	22	19	5.7	1.8	0	0	0	0

CAL YR 1976 TOTAL 27.61 MEAN .075 MAX 2.1 MIN 0 AC-FT 55
WTR YR 1977 TOTAL 33.64 MEAN .092 MAX 3.4 MIN 0 AC-FT 67

11182400 ARROYO DEL HAMBRE AT MARTINEZ, CA

LOCATION.--Lat 38°00'12", long 122°07'44", in Las Juntas Grant, Contra Costa County, on right bank 40 ft (12 m) upstream from D Street Bridge in Martinez.

DRAINAGE AREA.--15.1 mi^2 (39.1 km^2).

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) above mean sea level (levels by Contra Costa County Flood Control District).

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

AVERAGE DISCHARGE.--13 years, 3.87 ft^3/s (0.110 m^3/s), 2,800 acre-ft/yr (3.45 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,960 ft^3/s (55.5 m^3/s) Jan. 18, 1973, gage height, 10.93 ft (3.331 m), from rating curve extended above 540 ft^3/s (15.3 m^3/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, 111 ft^3/s (3.14 m^3/s) Jan. 2, gage height, 3.13 ft (0.954 m), no peak above base of 150 ft^3/s (4.2 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	.05	.07	.65	.22	.19	.15	.54	.05	.02		0
2	.06	.05	.09	14	.19	.19	.15	.11	.03	.06		0
3	.03	.05	.09	2.1	.19	.19	.15	.10	.05	.08		0
4	.03	.05	.07	.30	.19	.19	.15	.10	.05	.09		0
5	.03	.05	.08	.19	.21	.19	.19	.10	.09	.07		0
6	.02	.05	.07	.16	.19	.17	.15	.10	.07	.02		0
7	.02	.05	.07	.12	.19	.15	.15	.12	.05	.02		0
8	.01	.05	.05	.13	1.4	.15	.15	.66	.05	.02		0
9	.01	.07	.06	.13	.16	.62	.15	.12	.07	.01		0
10	.01	.07	.07	.12	.20	.14	.12	.03	.09	.01		0
11	.02	1.2	.05	.13	.18	.22	.12	.05	.09	.03		0
12	.02	.08	.05	1.8	.15	.23	.12	.05	.09	.04		0
13	.03	.11	.07	.14	.24	.12	.12	.05	.09	.08		0
14	.03	.47	.07	.13	.12	.12	.12	.05	.12	.06		0
15	.03	.06	.07	.12	.15	4.6	.15	.05	.12	.06		0
16	.03	.05	.07	.12	.16	5.6	.15	.05	.07	.06		0
17	.03	.05	.09	.12	.14	.39	.15	.05	.09	.04		0
18	.03	.05	.07	.15	.15	.19	.15	.05	.09	.03		0
19	.03	.05	.07	.20	.15	.19	.19	.05	.09	.02		.88
20	.05	.05	.06	.22	.45	.12	.19	.05	.09	.01		.03
21	.05	.06	.05	.17	7.9	.15	.19	.05	.09	.01		.01
22	.03	.05	.06	.12	.85	.15	.19	.05	.05	.06		.01
23	.05	.05	.06	.10	.74	.45	.19	.05	.05	.03		0
24	.05	.05	.06	.10	.20	2.4	.23	.06	.05	.02		0
25	.05	.06	.07	.12	.15	.39	.25	.07	.02	.01		0
26	.05	.07	.07	.12	.15	.19	.24	.07	.02	0		0
27	.05	.05	.07	.14	.17	.19	.22	.09	.03	0		0
28	.05	.06	.07	.15	.19	.15	.23	.07	.03	0		0
29	.05	.07	.61	.18	---	.19	.23	.07	.04	0		0
30	.07	.07	13	.19	---	.19	.26	.07	.04	0		0
31	.05	---	.84	.20	---	.15	---	.05	---	0		---
TOTAL	4.27	3.30	16.35	22.62	15.38	18.56	5.20	3.18	1.96	.96	0	.93
MEAN	.14	.11	.53	.73	.55	.60	.17	.10	.065	.031	0	.031
MAX	3.2	1.2	13	14	7.9	5.6	.26	.66	.12	.09	0	.88
MIN	.01	.05	.05	.10	.12	.12	.12	.03	.02	0	0	0
AC-FT	8.5	6.5	32	45	31	37	10	6.3	3.9	1.9	0	1.8

CAL YR 1976 TOTAL 114.92 MEAN .31 MAX 13 MIN 0 AC-FT 228
WTR YR 1977 TOTAL 92.71 MEAN .25 MAX 14 MIN 0 AC-FT 184

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, on right bank 0.2 mi (0.3 km) downstream from Bollinger Creek, and 1.0 mi (1.6 km) southwest of San Ramon.

DRAINAGE AREA.--5.89 mi^2 (15.26 km^2).

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.--25 years, 2.75 ft^3/s (0.078 m^3/s), 1,990 acre-ft/yr (2.45 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,600 ft^3/s (45.3 m^3/s) Oct. 13, 1962, gage height, 16.98 ft (5.176 m), from rating curve extended above 90 ft^3/s (2.55 m^3/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, 19 ft^3/s (0.54 m^3/s) Jan. 2, gage height, 2.32 ft (0.707 m), no peak above base of 100 ft^3/s (2.8 m^3/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	0	.05	.05					
2			0	1.8	0	.03	.05					
3			0	.60	0	.03	.03					
4			0	.03	0	.02	.02					
5			0	0	0	.02	.02					
6			0	0	0	.02	.02					
7			0	0	0	.02	.02					
8			0	0	.24	.02	.03					
9			0	0	.21	.25	.15					
10			0	0	.04	.14	.05					
11			0	0	.02	.05	.02					
12			0	0	.01	.03	.01					
13			0	0	.01	.05	0					
14			0	0	.02	.03	0					
15			0	0	.01	.25	0					
16			0	0	.01	1.6	0					
17			0	0	.01	.25	0					
18			0	0	.01	.14	0					
19			0	0	.01	.11	0					
20			0	0	.02	.08	0					
21			0	0	.89	.08	0					
22			0	0	.28	.05	0					
23			0	0	.15	.17	0					
24			0	0	.10	.99	0					
25			0	0	.04	.41	0					
26			0	0	.03	.15	0					
27			0	0	.03	.11	0					
28			0	0	.04	.08	0					
29			0	0	---	.06	0					
30			.02	0	---	.05	0					
31		---	0	0	---	.05	---		---			---
TOTAL	0	0	.02	2.43	2.18	5.39	.47	0	0	0	0	0
MEAN	0	0	.0006	.078	.078	.17	.016	0	0	0	0	0
MAX	0	0	.02	1.8	.89	1.6	.15	0	0	0	0	0
MIN	0	0	0	0	0	.02	0	0	0	0	0	0
AC-FT	0	0	.04	4.8	4.3	11	.9	0	0	0	0	0

CAL YR 1976 TOTAL 34.53 MEAN .094 MAX 3.0 MIN 0 AC-FT 68
WTR YR 1977 TOTAL 10.49 MEAN .029 MAX 1.8 MIN 0 AC-FT 21

11183000 SAN RAMON CREEK AT WALNUT CREEK, CA

LOCATION.--Lat 37°52'38", long 122°02'52", in San Ramon Grant, Contra Costa County, on left bank 600 ft (183 m) upstream from Rudgear Road, near south city limits of town of Walnut Creek.

DRAINAGE AREA.--47.9 mi^2 (124.1 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1395: 1953(M).

GAGE.--Water-stage recorder. Concrete control since Dec. 4, 1962. Datum of gage is 146.4 ft (44.62 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 8, 1971, at site 0.6 mi (1.0 km) downstream at different datum.

REMARKS.--Records fair. No regulation; pumping for irrigation above station during periods of low flow.

AVERAGE DISCHARGE.--25 years, 15.2 ft^3/s (0.430 m^3/s), 11,010 acre-ft/yr (13.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,980 ft^3/s (226 m^3/s) Jan. 31, 1963, gage height, 14.40 ft (4.389 m) site and datum then in use, from rating curve extended above 2,200 ft^3/s (62.3 m^3/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, 423 ft^3/s (12.0 m^3/s) Jan. 2, gage height, 3.35 ft (1.021 m), no peak above base of 500 ft^3/s (14 m^3/s); no flow Sept. 1-6, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	1.6	1.8	5.1	3.5	2.6	1.1	3.3	.78	.54	.10	0
2	8.5	1.6	1.6	90	3.9	2.3	1.4	4.7	.80	.53	.09	0
3	1.9	1.6	1.6	23	3.4	2.2	1.5	2.0	.80	.42	.09	0
4	1.2	1.7	1.8	7.4	3.4	2.2	1.7	1.4	.91	.39	.08	0
5	1.1	1.7	1.7	4.3	3.4	2.3	1.6	1.3	.95	.36	.13	0
6	1.1	1.9	1.8	3.2	3.4	2.3	1.6	1.1	.96	.34	.12	0
7	1.1	1.9	1.9	3.1	3.4	2.3	1.7	1.5	.96	.33	.09	.01
8	1.1	1.9	1.7	2.9	11	2.3	2.1	3.2	.94	.30	.12	.02
9	1.0	1.9	1.7	2.9	9.9	8.2	2.1	3.4	.96	.30	.14	.02
10	1.0	2.0	1.7	2.9	5.4	5.5	2.5	2.3	.97	.31	.14	.02
11	1.1	3.7	1.7	2.8	4.0	5.2	2.6	1.3	1.0	.27	.12	.02
12	1.1	6.6	1.7	5.9	3.8	5.9	2.6	1.7	1.1	.33	.11	.03
13	1.3	3.5	1.7	3.8	4.0	4.7	2.5	1.7	1.1	.28	.11	.03
14	1.6	12	1.8	2.7	4.0	4.2	2.4	1.2	1.1	.32	.12	.05
15	1.6	5.3	2.6	2.6	3.8	15	2.2	1.1	1.2	.39	.10	.04
16	1.6	3.9	2.2	2.6	3.8	70	2.3	.92	1.3	.36	.08	.04
17	1.6	2.5	2.2	2.5	3.8	17	2.3	.91	1.4	.29	.05	.07
18	1.6	2.1	2.2	2.4	3.6	7.9	2.3	.86	1.4	.25	.06	0
19	1.7	2.0	2.1	2.4	3.6	4.0	2.2	1.2	1.4	.21	.05	.69
20	1.7	2.0	2.2	2.4	3.7	2.7	2.2	1.4	1.4	.17	.05	.79
21	1.8	1.9	2.2	2.6	31	2.2	2.1	.81	1.3	.22	.06	.12
22	1.8	1.9	2.2	3.1	12	1.9	2.2	.74	1.2	.18	.07	.04
23	2.0	1.9	2.2	3.6	7.7	2.1	2.2	.67	1.1	.16	.05	.03
24	1.8	2.0	2.3	3.4	5.0	19	2.3	.82	.98	.13	.07	.02
25	1.7	1.9	2.3	3.1	3.2	6.8	2.4	.85	.92	.15	.03	.03
26	1.7	1.9	2.3	3.1	2.7	3.0	2.4	1.7	.87	.17	.03	.03
27	1.6	1.8	2.5	3.1	2.7	2.9	2.3	1.1	.93	.15	.05	.06
28	1.6	1.5	2.4	3.1	2.6	2.2	2.4	.99	.81	.16	.04	.06
29	1.6	1.5	3.1	3.1	---	1.7	2.3	.89	.72	.11	.04	.10
30	1.6	1.4	69	3.1	---	1.5	2.4	.88	.59	.12	.02	.18
31	1.6	---	13	3.1	---	1.4	---	.81	---	.11	.01	---
TOTAL	68.7	79.1	141.2	209.3	155.7	213.5	63.9	46.75	30.85	8.35	2.42	2.50
MEAN	2.22	2.64	4.55	6.75	5.56	6.89	2.13	1.51	1.03	.27	.078	.083
MAX	17	12	69	90	31	70	2.6	4.7	1.4	.54	.14	.79
MIN	1.0	1.4	1.6	2.4	2.6	1.4	1.1	.67	.59	.11	.01	0
AC-FT	136	157	280	415	309	423	127	93	61	17	4.8	5.0

CAL YR 1976 TOTAL 1205.40 MEAN 3.29 MAX 69 MIN 1.0 AC-FT 2390
WTR YR 1977 TOTAL 1022.27 MEAN 2.80 MAX 90 MIN 0 AC-FT 2030

11183000 SAN RAMON CREEK AT WALNUT CREEK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
AUG 11...	1030	.14	792	8.3	21.5	11.7	17	290	0	60	33	87

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
AUG 11...	40	2.2	1.8	420	0	340	60	55	.5	21	526	.72

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)	SUSPENDED SOLIDS (MG/L)	VOL. NONFILTRABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 11...	.20	23	23	0	.03	.03	.55	.58	.35	540	30

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, 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.--85.1 mi^2 (220.4 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 35.44 ft (10.802 m) above mean sea level (Corps of Engineers bench mark).

REMARKS.--Records good. Flow slightly regulated by Lafayette Reservoir 10 mi (16 km) upstream, capacity, 4,240 acre-ft (5.23 hm^3). Some small diversions for irrigation above station.

AVERAGE DISCHARGE.--9 years, 39.7 ft^3/s (1.124 m^3/s), 28,760 acre-ft/yr (35.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft^3/s (227 m^3/s) Feb. 27, 1973, gage height, 14.0 ft (4.27 m), estimated, from rating curve extended above 2,500 ft^3/s (70.8 m^3/s) on basis of computed discharge at gage height 13.7 ft (4.18 m); minimum daily, 0.95 ft^3/s (0.027 m^3/s) Sept. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,400 ft^3/s (39.6 m^3/s) Jan. 2, (1815 hrs), gage height, 5.68 ft (1.731 m), no other peak above base of 850 ft^3/s (24 m^3/s); minimum daily, 0.95 ft^3/s (0.027 m^3/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	23	4.9	15	8.1	5.6	6.7	22	3.2	5.7	1.8	1.0
2	18	6.4	4.5	236	9.2	5.3	7.6	10	3.7	5.3	1.7	1.0
3	9.6	5.5	5.4	62	8.1	5.4	7.1	6.3	3.2	4.5	1.4	1.2
4	7.9	5.8	5.8	18	8.1	4.8	7.1	4.8	3.5	4.4	1.5	1.3
5	7.3	6.4	5.5	13	8.1	4.7	7.6	3.9	2.6	4.2	1.5	1.3
6	7.5	5.9	5.3	12	8.1	5.1	7.1	4.2	2.3	4.2	1.5	1.5
7	8.0	4.8	6.2	10	8.1	4.9	6.7	9.4	2.4	4.3	1.6	1.2
8	8.9	5.6	6.0	9.8	20	4.8	9.7	10	4.1	4.3	1.6	1.1
9	9.0	5.4	5.9	9.4	16	16	8.6	10	2.2	4.4	1.6	.95
10	8.7	5.6	6.0	9.4	9.3	9.7	6.7	6.7	2.3	4.4	1.8	2.3
11	8.0	19	5.7	9.3	7.6	7.1	9.7	5.8	2.7	3.9	1.8	2.7
12	7.4	13	6.5	19	7.8	7.6	8.6	8.1	2.6	5.0	1.8	1.7
13	7.5	8.9	6.6	11	7.4	9.2	7.1	5.4	2.6	4.0	2.7	1.6
14	7.4	29	8.1	8.9	7.1	6.7	6.6	4.7	3.0	4.8	2.8	2.6
15	7.1	11	7.1	8.5	7.7	55	6.3	4.0	2.5	6.0	3.1	2.4
16	7.0	8.9	6.7	8.4	8.1	121	6.0	3.7	2.4	4.9	3.0	2.6
17	7.4	6.7	7.1	8.4	7.6	15	6.1	3.7	2.6	4.5	2.4	2.9
18	6.9	6.0	6.6	8.0	7.4	9.7	5.5	4.7	2.7	2.7	2.8	2.6
19	6.4	5.2	6.5	7.8	7.0	8.6	5.3	6.7	3.0	2.5	2.4	19
20	6.8	5.4	6.6	8.3	10	8.1	5.9	4.3	2.6	2.0	2.3	5.1
21	7.1	5.0	6.2	9.0	82	7.6	5.0	4.3	2.4	2.5	2.1	3.1
22	26	4.3	6.7	9.0	19	8.1	5.2	3.7	5.3	1.9	1.6	2.9
23	7.1	4.2	7.0	9.7	17	13	4.4	3.1	9.5	1.1	1.1	1.7
24	11	4.2	6.7	8.7	9.7	52	4.3	3.0	8.9	.98	1.2	1.8
25	7.7	3.9	6.3	9.3	7.1	19	4.0	2.9	9.1	1.6	1.2	1.7
26	6.9	3.9	6.3	8.1	6.5	10	3.9	3.6	7.2	2.1	1.2	1.3
27	6.4	3.9	6.3	7.9	5.4	9.7	3.7	3.4	7.9	1.0	1.9	1.3
28	6.0	4.3	6.5	7.9	5.7	9.2	4.1	3.0	8.8	1.0	1.0	1.8
29	6.2	4.3	9.4	8.1	---	8.1	3.9	2.9	9.3	1.1	1.1	2.2
30	10	4.0	204	8.3	---	8.1	3.7	2.8	5.5	1.4	1.9	2.3
31	7.0	---	39	8.3	---	6.7	---	3.2	---	1.9	1.4	---
TOTAL	320.2	229.5	427.4	586.5	333.2	465.8	184.2	174.3	130.1	102.58	56.8	76.15
MEAN	10.3	7.65	13.8	18.9	11.9	15.0	6.14	5.62	4.34	3.31	1.83	2.54
MAX	62	29	204	236	82	121	9.7	22	9.5	6.0	3.1	19
MIN	6.0	3.9	4.5	7.8	5.4	4.7	3.7	2.8	2.2	.98	1.0	.95
AC-FT	635	455	848	1160	661	924	365	346	258	203	113	151

CAL YR 1976 TOTAL 3878.40 MEAN 10.6 MAX 204 MIN 3.9 AC-FT 7690
WTR YR 1977 TOTAL 3086.73 MEAN 8.46 MAX 236 MIN .95 AC-FT 6120

11183600 WALNUT CREEK AT CONCORD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
AUG												
11...	1215	1.9	1340	8.0	23.5	17.9	21	400	0	73	53	160

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
AUG												
11...	46	3.5	3.0	500	0	410	110	170	.5	12	836	1.14

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)	SUSPENDED SOLIDS (MG/L)	VOL. NONFILTRABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG											
11...	4.29	70	70	3	1.1	1.2	.93	2.0	.06	2600	30

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, on right bank 200 ft (61 m) downstream from road ford, 1.2 mi (1.9 km) upstream from mouth, and 3.8 mi (6.1 km) northeast of Alamo.

DRAINAGE AREA.--1.22 mi^2 (3.16 km^2).

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44 ft^3/s (1.25 m^3/s) Mar. 21, 1975, gage height, 2.12 ft (0.646 m), from rating curve extended above 2.2 ft^3/s (0.062 m^3/s) on basis of weir discharge computations; no flow for long periods in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.88 ft^3/s (0.025 m^3/s) Jan. 2, gage height, 1.03 ft (0.314 m), no peak above base of 30 ft^3/s (0.8 m^3/s); no flow for long periods.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	0	0						
2				.06	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	.11						
17				0	0	.01						
18				0	0	0						
19				0	0	0						
20				0	0	0						
21				0	0	0						
22				0	.01	0						
23				0	0	0						
24				0	0	0						
25				0	0	0						
26				0	0	0						
27				0	0	0						
28				0	0	0						
29				0	---	0						
30				0	---	0						
31		---		0	---	0	---		---			---
TOTAL	0	0	0	.06	.01	.12	0	0	0	0	0	0
MEAN	0	0	0	.002	.0004	.004	0	0	0	0	0	0
MAX	0	0	0	.06	.01	.11	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	.1	.02	.2	0	0	0	0	0	0

CAL YR 1976 TOTAL 2.36 MEAN .0060 MAX .22 MIN 0 AC-FT 4.7
WTR YR 1977 TOTAL 0.19 MEAN .0005 MAX .11 MIN 0 AC-FT .4

11455900 NAPA RIVER AT CALISTOGA, CA

LOCATION.--Lat 38°34'38", long 122°34'49", in Carne Humana Grant, Napa County, on right bank at end of Pine Street in Calistoga, 200 ft (61 m) downstream from bridge on State Highway 29, and 0.6 mi (1.0 km) downstream from Cyrus Creek.

DRAINAGE AREA.--21.9 mi^2 (56.7 km^2).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records fair. Flow slightly regulated by Kimball Creek Reservoir 3.7 mi (6.0 km) upstream, capacity, 344 acre-ft (424,000 m^3). No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 172 ft^3/s (4.87 m^3/s) Feb. 29, 1976, gage height, 4.76 ft (1.451 m); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft^3/s (0.57 m^3/s) Jan. 2, gage height, 3.78 ft (1.152 m), no peak above base of 1,000 ft^3/s (28 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.04	.19	.51	.43	.78	1.9	.43	.03			0
2	.12	.04	.12	7.1	.19	.78	2.5	.32	.03			0
3	.09	.04	.09	1.5	.17	.84	2.3	.29	.03			0
4	.11	.04	.12	.64	.35	.78	2.0	.17	.01			0
5	.07	.03	.19	.42	.43	.69	1.5	.12	.01			0
6	.08	.03	.17	.29	.47	.55	1.8	.11	.01			0
7	.07	.03	.19	.35	.43	.84	1.8	.15	0			0
8	.07	.03	.12	.39	1.9	.89	1.7	.10	.01			0
9	.07	.03	.15	.43	.69	1.0	1.4	.19	.01			0
10	.06	.03	.11	.35	.47	.95	1.4	.15	.01			0
11	.06	.33	.13	.26	.32	.89	1.1	.11	.02			0
12	.06	.11	.26	.74	.17	1.1	1.1	.19	.04			0
13	.06	.32	.26	.47	.39	1.2	1.0	.12	.06			0
14	.06	2.1	.26	.43	.35	.89	1.2	.11	.05			0
15	.06	.15	.26	.47	.29	6.4	1.1	.08	.05			0
16	.06	.06	.19	.51	.29	9.9	1.0	.19	.03			0
17	.06	.06	.17	.43	.29	5.1	.73	.10	.03			0
18	.06	.04	.19	.21	.29	3.5	.59	.12	.04			.11
19	.06	.04	.26	.47	.19	1.9	.47	.24	.03			1.1
20	.06	.04	.26	.47	.35	1.5	.47	.24	.03			0
21	.05	.07	.19	.51	4.0	1.3	.43	.12	.03			0
22	.05	.08	.19	.51	1.2	1.5	.35	.29	.01			0
23	.05	.07	.24	.55	1.1	1.7	.10	.39	0			0
24	.05	.09	.32	.43	.84	2.2	.07	.12	0			0
25	.05	.10	.32	.39	.74	1.6	.19	.07	0			0
26	.04	.11	.17	.43	.78	2.2	.11	.32	.13			0
27	.04	.12	.26	.39	.84	2.8	.07	.26	.01			0
28	.04	.12	.26	.39	.84	2.1	.10	.13	0			.24
29	.04	.15	1.7	.43	---	2.8	.32	.07	0			.10
30	.04	.17	2.6	.51	---	2.7	.19	.06	0			0
31	.04	---	.26	.47	---	2.3	---	.04	---			---
TOTAL	2.01	4.67	10.20	21.45	18.80	63.68	28.99	5.40	.71	0	0	1.55
MEAN	.065	.16	.33	.69	.67	2.05	.97	.17	.024	0	0	.052
MAX	.18	2.1	2.6	7.1	4.0	9.9	2.5	.43	.13	0	0	1.1
MIN	.04	.03	.09	.21	.17	.55	.07	.04	0	0	0	0
AC-FT	4.0	9.3	20	43	37	126	58	11	1.4	0	0	3.1

CAL YR 1976 TOTAL 390.20 MEAN 1.07 MAX 47 MIN 0 AC-FT 774
WTR YR 1977 TOTAL 157.46 MEAN .43 MAX 9.9 MIN 0 AC-FT 312

11455900 NAPA RIVER AT CALISTOGA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976 to current year.
BIOLOGICAL DATA: Water year 1976.

COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
DEC								
14...A	1030	.26	--	--	--	140	29	31
30...	1400	2.4	400	7.5	11	62	0	14
JAN								
02...	2300	4.0	641	9.0	17	66	0	14
12...A	1025	.69	--	--	--	81	8	17
MAR								
17...A	1140	4.9	--	--	--	48	0	11
MAY								
09...A	1230	.24	--	--	--	83	0	18

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
DEC									
14...	16	71	51	2.6	5.3	139	114	27	110
30...	6.6	52	63	2.9	4.0	78	64	17	69
JAN									
02...	7.5	100	75	5.4	4.8	88	72	30	130
12...	9.3	61	61	3.0	3.4	89	73	36	73
MAR									
17...	5.1	24	50	1.5	2.3	60	49	19	23
MAY									
09...	9.2	50	55	2.4	3.8	130	110	19	49

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
DEC								
14...	1.1	45	379	.52	.27	.07	4000	140
30...	1.9	30	237	.32	1.54	.31	2900	140
JAN								
02...	4.5	48	390	.53	4.21	.52	5100	180
12...	2.0	40	290	.39	.54	.28	2800	220
MAR								
17...	.9	37	155	.21	2.05	.30	790	720
MAY								
09...	1.2	44	262	.36	.17	.43	1600	280

11456000 NAPA RIVER NEAR ST. HELENA, CA

LOCATION.--Lat 38°29'52", long 122°25'37", in Carne Humana Grant, Napa County, on right bank 0.2 mi (0.3 km) upstream from highway bridge, 1.3 mi (2.1 km) northeast of Zinfandel, and 2.5 mi (4.0 km) east of St. Helena.

DRAINAGE AREA.--81.4 mi^2 (210.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to September 1932, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 170.12 ft (51.853 m) above mean sea level. 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 hm^3). Small diversions above station for irrigation of about 1,500 acres (6.07 km^2).

AVERAGE DISCHARGE.--41 years, 92.1 ft^3/s (2.608 m^3/s), 66,730 acre-ft/yr (82.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s (357 m^3/s) Dec. 22, 1955, gage height, 18.17 ft (5.538 m) present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 130 ft^3/s (3.68 m^3/s) Jan. 2, Mar. 16, gage height, 3.74 ft (1.140 m), no peak above base of 4,200 ft^3/s (119 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.31	.37	3.2	6.8	.02	3.8	2.7	2.1	.36			
2	.44	.38	3.2	35	.02	3.2	2.9	2.4	.32			
3	.63	.38	3.2	31	.06	2.9	2.5	2.2	.29			
4	.67	.38	2.6	6.8	.51	2.9	2.2	1.5	.25			
5	.63	.38	2.1	2.6	.63	3.2	2.1	1.3	.23			
6	.63	.36	2.1	1.3	.67	3.2	2.1	.88	.22			
7	.60	.35	2.6	1.0	.79	3.1	2.5	.35	.21			
8	.60	.33	3.2	1.0	2.9	3.0	3.2	.20	.20			
9	.57	.32	3.2	1.9	7.8	5.5	3.1	.53	.16			
10	.57	.32	2.9	1.9	3.5	4.6	3.3	.76	.09			
11	.54	.33	2.6	1.7	2.4	4.0	3.6	.87	.05			
12	.54	.35	2.6	2.4	2.4	3.5	3.2	1.5	.03			
13	.54	.33	2.6	2.4	2.6	3.2	2.0	1.4	.02			
14	.54	2.2	2.6	2.4	2.6	3.7	1.6	1.2	.01			
15	.54	7.4	2.6	2.1	2.1	11	1.9	1.1	0			
16	.54	7.1	2.6	2.1	1.9	85	1.6	.95	0			
17	.51	4.3	2.6	2.4	2.4	21	1.3	.62	0			
18	.51	2.9	2.6	2.1	2.6	9.0	2.1	.66	0			
19	.51	2.4	2.6	1.7	1.7	7.2	2.3	.86	0			
20	.49	1.9	2.6	.70	1.6	5.3	1.7	.93	0			
21	.49	1.4	2.4	.51	24	3.9	.80	.73	0			
22	.46	1.1	1.3	.39	21	3.4	.31	.63	0			
23	.44	1.3	1.3	.42	11	2.6	.21	.55	0			
24	.42	2.1	1.0	1.9	8.5	5.3	.16	.44	0			
25	.39	2.4	.70	1.7	5.6	6.2	.13	.37	0			
26	.37	2.4	.54	.70	4.6	5.0	.11	.34	0			
27	.36	2.1	.40	.36	4.0	4.0	.61	.45	0			
28	.35	2.1	.30	.13	3.5	3.5	1.2	.52	0			
29	.33	2.1	.24	.06	---	2.8	1.4	.45	0			
30	.35	2.4	3.6	.11	---	3.0	1.4	.41	0			
31	.36	---	9.3	.05	---	2.8	---	.40	---			---
TOTAL	15.23	52.18	75.38	115.63	121.40	230.8	54.23	27.60	2.44	0	0	0
MEAN	.49	1.74	2.43	3.73	4.34	7.45	1.81	.89	.081	0	0	0
MAX	.67	7.4	9.3	35	24	85	3.6	2.4	.36	0	0	0
MIN	.31	.32	.24	.05	.02	2.6	.11	.20	0	0	0	0
AC-FT	30	103	150	229	241	458	108	55	4.8	0	0	0

CAL YR 1976 TOTAL 1374.14 MEAN 3.75 MAX 67 MIN 0 AC-FT 2730
WTR YR 1977 TOTAL 694.89 MEAN 1.90 MAX 85 MIN 0 AC-FT 1380

11456000 NAPA RIVER NEAR ST. HELENA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.
CHEMICAL ANALYSES: Water years 1952-66, 1976 to current year.
WATER TEMPERATURES: Water years 1958 to current year.
SEDIMENT RECORDS: Water years 1957-62.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1957 to current year.
SEDIMENT RECORDS: December 1956 to June 1962.

INSTRUMENTATION.--Temperature recorder since October 1957.

REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading.

COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 33.5°C July 18, 1968; minimum recorded, 3.5°C Dec. 14, 15, 1967, Dec. 11, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 20.5°C June 6-8; minimum 6.0°C Dec. 28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
JAN 12...	1025	2.9	150	46	31	17	41	37	1.5	3.0	124
MAR 17...	1100	23	98	6	21	11	35	42	1.5	5.2	112

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
JAN 12...	102	33	67	.6	30	288	.39	2.26	.54	1700	40
MAR 17...	92	27	34	.8	28	227	.31	14.1	1.7	980	790

11456000 NAPA RIVER NEAR ST. HELENA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	17.5	--	17.0	12.5	--	12.0	9.5	--	9.5	--	--	--	--	7.0	--	12.5	--	10.5
2	17.5	--	17.0	12.5	--	12.0	10.0	--	9.5	--	--	--	--	--	--	12.0	--	10.5
3	17.0	--	17.0	13.0	--	12.0	9.5	--	9.5	--	9.0	--	--	--	--	12.5	--	11.0
4	17.0	--	16.5	12.5	--	12.0	9.5	--	9.5	--	--	--	--	--	--	13.0	--	10.5
5	17.0	--	16.5	12.5	--	12.5	10.0	--	9.5	--	8.0	--	--	--	--	13.0	--	10.5
6	17.5	--	16.5	12.5	--	12.0	10.0	--	10.0	--	--	--	--	--	--	13.0	--	11.0
7	17.5	--	17.0	12.5	--	12.0	10.0	--	9.5	--	--	--	--	--	--	12.5	--	11.5
8	17.5	--	17.0	12.5	--	12.0	9.5	--	9.5	--	--	--	--	--	--	13.0	--	11.5
9	17.2	--	17.0	12.5	--	12.0	9.5	--	9.5	--	--	--	--	--	--	13.5	--	13.0
10	17.0	--	16.5	13.0	--	12.5	10.0	--	9.5	--	--	--	--	--	--	13.5	--	12.0
11	16.5	--	16.0	14.0	--	13.0	10.5	--	9.5	--	--	--	--	--	--	13.0	--	11.0
12	16.0	--	16.0	14.0	--	13.5	9.5	--	9.0	--	--	--	--	--	--	13.5	--	12.0
13	16.0	--	15.5	13.5	--	13.5	9.0	--	9.0	--	--	--	--	--	--	12.5	--	11.0
14	16.0	--	15.5	15.0	--	13.5	9.0	--	8.5	--	--	--	--	--	--	11.5	--	10.5
15	15.5	--	15.0	15.5	--	14.5	8.5	--	8.5	--	--	--	--	--	--	10.5	--	10.0
16	15.5	--	15.0	16.0	--	15.5	8.5	--	8.5	--	--	--	--	--	--	10.0	--	8.5
17	15.0	--	15.0	15.5	--	15.0	8.5	--	8.5	--	--	--	--	--	--	11.5	--	9.5
18	15.0	--	14.5	15.5	--	15.0	8.5	--	8.0	--	--	--	--	--	--	13.5	--	10.0
19	15.0	--	14.0	15.0	--	14.5	8.5	--	8.0	--	--	--	--	--	--	14.5	--	11.5
20	14.0	--	13.5	14.5	--	14.5	8.0	--	8.0	--	--	--	--	--	--	14.5	--	12.0
21	14.0	--	13.5	15.0	--	14.5	8.0	--	8.0	--	--	--	--	13.0	--	15.0	--	12.5
22	14.0	--	14.0	15.0	--	14.0	8.0	--	8.0	--	--	--	--	--	--	15.0	--	13.0
23	14.0	--	14.0	14.5	--	13.5	8.5	--	8.0	--	--	--	--	--	--	--	--	--
24	14.0	--	13.5	13.5	--	13.0	8.5	--	7.5	--	--	--	--	11.5	--	--	--	--
25	14.0	--	13.5	13.5	--	13.0	8.0	--	7.0	--	--	--	13.0	--	10.5	--	--	--
26	13.5	--	13.0	13.5	--	12.0	7.5	--	7.0	--	--	--	13.5	--	10.5	--	--	--
27	13.5	--	13.0	12.0	--	10.5	7.0	--	6.5	--	--	--	13.5	--	11.0	--	--	--
28	13.0	--	12.5	10.5	--	10.0	6.5	--	6.0	--	--	--	14.0	--	11.5	--	--	--
29	12.5	--	12.0	10.0	--	9.5	--	--	--	--	--	--	--	--	--	--	--	--
30	12.5	--	12.0	9.5	--	9.5	--	--	--	--	--	--	--	--	--	--	--	--
31	12.5	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	17.5	--	12.0	16.0	--	9.5	10.5	--	6.0	--	--	--	--	--	--	--	--	--

DAY	APR MAX	APR DAILY	APR MIN	MAY MAX	MAY DAILY	MAY MIN	JUN MAX	JUN DAILY	JUN MIN	JUL MAX	JUL DAILY	JUL MIN	AUG MAX	AUG DAILY	AUG MIN	SEP MAX	SEP DAILY	SEP MIN
1	--	13.0	--	18.5	--	18.0	19.5	--	18.5	--	--	--	--	--	--	--	--	--
2	--	--	--	18.5	--	17.0	19.5	--	18.0	--	--	--	--	--	--	--	--	--
3	--	--	--	18.0	--	17.0	19.0	--	17.5	--	--	--	--	--	--	--	--	--
4	--	--	--	17.0	--	16.5	18.5	--	17.5	--	--	--	--	--	--	--	--	--
5	--	14.5	--	17.0	--	16.5	19.5	--	18.5	--	--	--	--	--	--	--	--	--
6	17.0	--	14.5	16.5	--	15.5	20.5	--	19.0	--	--	--	--	--	--	--	--	--
7	17.0	--	15.0	15.5	--	14.5	20.5	--	20.0	--	--	--	--	--	--	--	--	--
8	16.0	--	14.5	15.5	--	14.5	20.5	--	19.5	--	--	--	--	--	--	--	--	--
9	16.5	--	14.0	15.5	--	15.0	19.5	--	18.0	--	--	--	--	--	--	--	--	--
10	17.0	--	14.0	16.0	--	15.5	18.5	--	17.5	--	--	--	--	--	--	--	--	--
11	18.0	--	14.5	15.5	--	15.0	18.5	--	17.0	--	--	--	--	--	--	--	--	--
12	18.5	--	15.5	16.0	--	15.0	18.5	--	17.0	--	--	--	--	--	--	--	--	--
13	18.5	--	16.5	16.5	--	15.5	18.5	--	17.0	--	--	--	--	--	--	--	--	--
14	18.0	--	16.0	17.0	--	16.5	19.0	--	17.0	--	--	--	--	--	--	--	--	--
15	17.5	--	16.0	17.5	--	17.0	--	--	--	--	--	--	--	--	--	--	--	--
16	18.0	--	17.0	17.5	--	16.5	--	--	--	--	--	--	--	--	--	--	--	--
17	18.5	--	17.0	17.0	--	16.0	--	--	--	--	--	--	--	--	--	--	--	--
18	18.0	--	16.5	16.5	--	16.0	--	--	--	--	--	--	--	--	--	--	--	--
19	18.5	--	16.5	16.0	--	15.5	--	--	--	--	--	--	--	--	--	--	--	--
20	18.5	--	16.5	18.0	--	16.0	--	--	--	--	--	--	--	--	--	--	--	--
21	16.5	--	16.0	18.5	--	18.0	--	--	--	--	--	--	--	--	--	--	--	--
22	16.0	--	15.0	18.5	--	17.5	--	--	--	--	--	--	--	--	--	--	--	--
23	15.5	--	14.5	17.5	--	16.5	--	--	--	--	--	--	--	--	--	--	--	--
24	16.0	--	14.5	17.0	--	16.0	--	--	--	--	--	--	--	--	--	--	--	--
25	16.5	--	15.5	17.0	--	16.0	--	--	--	--	--	--	--	--	--	--	--	--
26	16.5	--	15.0	17.0	--	16.5	--	--	--	--	--	--	--	--	--	--	--	--
27	16.5	--	15.5	17.0	--	16.0	--	--	--	--	--	--	--	--	--	--	--	--
28	16.5	--	16.0	17.0	--	16.0	--	--	--	--	--	--	--	--	--	--	--	--
29	18.0	--	16.5	17.0	--	16.0	--	--	--	--	--	--	--	--	--	--	--	--
30	18.5	--	18.0	18.0	--	17.0	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	18.5	--	17.5	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	18.5	--	14.0	18.5	--	14.5	--	--	--	--	--	--	--	--	--	--	--	--

11458000 NAPA RIVER NEAR NAPA, CA

LOCATION.--Lat 38°22'06", long 122°18'08", in Yajome Grant, Napa County, on left bank at downstream side of Oak Knoll Avenue bridge, 0.4 mi (0.6 km) downstream from Dry Creek, and 5 mi (8 km) north of Napa.

DRAINAGE AREA.--218 mi^2 (565 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to September 1932, October 1959 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1930(M).

GAGE.--Water-stage recorder. Datum of gage is 24.74 ft (7.541 m) above mean sea level.

REMARKS.--Records fair. Flow slightly regulated by Bell Canyon Reservoir beginning in 1959, capacity, 2,530 acre-ft (3.12 hm^3) and Lake Hennessey beginning in December 1945, capacity, 31,000 acre-ft (38.2 hm^3). Diversions for irrigation of about 10,000 acres (40.5 km^2) above station.

AVERAGE DISCHARGE.--21 years, 173 ft^3/s (4.899 m^3/s), 125,300 acre-ft/yr (154 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,900 ft^3/s (479 m^3/s) Jan. 31, 1963, gage height, 27.59 ft (8.409 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 54 ft^3/s (1.53 m^3/s) Mar. 16, gage height, 3.17 ft (0.966 m), no peak above base of 5,000 ft^3/s (142 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	.93	1.5	.33	0	.14	.75					
2	.93	.87	.93	6.6	0	.01	.60					
3	.93	.82	.33	32	0	0	.01					
4	.93	.75	.93	15	0	0	0					
5	.87	.60	.65	8.7	0	0	0					
6	.82	.60	.33	6.0	0	0	0					
7	.82	.65	.16	3.6	0	0	0					
8	.82	.69	.27	1.5	0	0	0					
9	.75	.56	.93	1.1	0	0	0					
10	.60	.60	1.4	.60	0	0	0					
11	.40	.87	1.6	.56	0	0	1.4					
12	.11	.98	1.2	1.4	0	0	1.7					
13	.05	1.0	1.3	1.4	0	0	1.0					
14	.65	1.4	1.5	1.5	0	0	.48					
15	.65	1.3	1.5	.82	0	.08	0					
16	.69	1.2	1.4	1.1	0	27	0					
17	.75	1.2	1.2	1.2	0	27	0					
18	.82	2.1	1.1	1.1	0	9.7	0					
19	.87	2.1	.93	1.4	0	3.4	0					
20	.87	1.7	.60	1.6	0	1.6	0					
21	.75	1.7	.75	1.2	0	.75	0					
22	.27	1.6	.60	.65	3.2	.38	0					
23	.07	1.6	.40	.40	5.1	1.0	0					
24	0	1.5	.37	.24	1.8	.10	0					
25	0	1.5	.21	.08	.96	.24	0					
26	0	1.5	0	0	.38	2.0	0					
27	0	1.5	0	0	.17	2.3	0					
28	0	1.5	0	0	.28	1.7	0					
29	.61	1.4	0	0	---	1.5	0					
30	.87	.98	.16	0	---	1.0	0					
31	.87	---	.37	0	---	.75	---		---			---
TOTAL	17.52	35.70	22.62	90.08	11.89	80.65	5.94	0	0	0	0	0
MEAN	.57	1.19	.73	2.91	.42	2.60	.20	0	0	0	0	0
MAX	.93	2.1	1.6	32	5.1	27	1.7	0	0	0	0	0
MIN	0	.56	0	0	0	0	0	0	0	0	0	0
AC-FT	35	71	45	179	24	160	12	0	0	0	0	0

CAL YR 1976 TOTAL 1752.25 MEAN 4.79 MAX 159 MIN 0 AC-FT 3480
WTR YR 1977 TOTAL 264.40 MEAN .72 MAX 32 MIN 0 AC-FT 524

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.
WATER TEMPERATURES: Water year 1977.
SEDIMENT RECORDS: Water years 1971, 1977.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1976 to September 1977.
SEDIMENT RECORDS: October 1976 to September 1977.

REMARKS.--Sediment table omitted for period of no flow July 1 to Sept. 30.

COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 23 mg/L Mar. 16; minimum daily mean, no flow many days.
SEDIMENT DISCHARGE: Maximum daily 1.8 tons (1.6 tonnes) Mar. 16; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
DEC 30...	1350	.33	580	8.3	7.0	21	150	15	25	22	23
JAN 12...A	1055	1.4	--	--	--	--	160	47	26	24	31
MAR 17...A	1015	26	--	--	--	--	100	17	20	13	22

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
DEC 30...	24	.8	2.3	168	0	138	34	30	.4	8.0	233
JAN 12...	29	1.1	2.8	142	--	116	41	49	.4	20	--
MAR 17...	31	.9	2.6	106	--	87	29	24	.4	19	--

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
DEC 30...	228	.32	.21	4	.15	.06	.03	.18	.14	490	30
JAN 12...	270	.37	1.02	--	--	1.2	--	--	--	860	80
MAR 17...	188	.26	13.2	--	--	.96	--	--	--	580	730

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (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 29...	1215	1	.00	1	1	3	6
29...	1220	1	.00	--	1	4	15
29...	1225	1	.00	1	1	2	3
29...	1230	1	.00	8	12	17	29

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 29...	10	24	45	70	87	100
29...	24	36	52	69	86	100
29...	13	40	74	94	99	100
29...	48	71	86	94	97	100

11458000 NAPA RIVER NEAR NAPA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	11.5	5.0	---	---	---	---					
2	19.0	12.0	4.5	9.0	---	---	---					
3	19.5	---	5.0	8.0	---	---	---					
4	16.0	---	7.0	---	---	---	---					
5	16.0	---	5.0	---	---	---	---					
6	22.0	11.0	8.0	4.5	---	---	---					
7	---	14.5	5.0	4.5	---	---	---					
8	22.0	14.5	5.5	---	---	---	---					
9	---	11.0	5.0	7.5	---	---	---					
10	17.5	12.0	5.5	---	---	---	---					
11	---	13.5	7.0	---	---	---	18.5					
12	---	14.0	7.5	8.0	---	---	---					
13	---	13.5	5.0	---	---	---	---					
14	16.0	14.0	5.0	8.5	---	---	21.0					
15	18.5	13.5	5.0	---	---	10.0	---					
16	19.0	13.5	5.5	---	---	---	---					
17	18.5	13.5	---	---	---	---	---					
18	15.0	13.0	---	---	---	---	---					
19	15.0	13.0	---	7.0	---	---	---					
20	14.0	13.5	---	---	---	---	---					
21	14.0	---	---	---	---	---	---					
22	14.0	12.5	---	---	---	---	---					
23	17.0	11.0	---	---	11.0	15.0	---					
24	13.0	11.0	---	---	---	---	---					
25	13.0	10.5	---	---	---	16.0	---					
26	17.0	10.0	---	---	---	---	---					
27	---	7.5	---	---	---	---	---					
28	15.0	7.0	---	---	---	17.0	---					
29	13.0	6.0	---	---	---	---	---					
30	15.0	5.5	7.0	---	---	16.5	---					
31	15.0	---	---	---	---	---	---					
MONTH	16.5	11.5	---	---	---	---	---					

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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	.75	3	.01	.93	1	0	1.5	2	.01
2	.93	3	.01	.87	1	0	.93	1	0
3	.93	2	.01	.82	1	0	.33	1	0
4	.93	2	.01	.75	2	0	.93	2	.01
5	.87	2	0	.60	2	0	.65	1	0
6	.82	2	0	.60	3	0	.33	0	0
7	.82	4	.01	.65	1	0	.16	1	0
8	.82	3	.01	.69	0	0	.27	1	0
9	.75	2	0	.56	1	0	.93	0	0
10	.60	1	0	.60	1	0	1.4	1	0
11	.40	1	0	.87	1	0	1.6	1	0
12	.11	1	0	.98	1	0	1.2	1	0
13	.05	2	0	1.0	1	0	1.3	0	0
14	.65	2	0	1.4	2	.01	1.5	1	0
15	.65	2	0	1.3	2	.01	1.5	1	0
16	.69	1	0	1.2	2	.01	1.4	1	0
17	.75	1	0	1.2	1	0	1.2	1	0
18	.82	2	0	2.1	1	.01	1.1	1	0
19	.87	2	0	2.1	1	.01	.93	1	0
20	.87	3	.01	1.7	1	0	.60	1	0
21	.75	3	.01	1.7	1	0	.75	1	0
22	.27	2	0	1.6	0	0	.60	1	0
23	.07	1	0	1.6	0	0	.40	1	0
24	0	0	0	1.5	1	0	.37	1	0
25	0	0	0	1.5	0	0	.21	1	0
26	0	0	0	1.5	1	0	0	0	0
27	0	0	0	1.5	0	0	0	0	0
28	0	0	0	1.5	0	0	0	0	0
29	.61	2	0	1.4	0	0	0	0	0
30	.87	3	.01	.98	0	0	.16	5	0
31	.87	1	0	---	---	---	.37	2	0
TOTAL	17.52	---	.09	35.70	---	.05	22.62	---	.02

11458000 NAPA RIVER NEAR NAPA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	JANUARY			FEBRUARY			MARCH		
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	.33	1	0	0	0	0	.14	3	0
2	6.6	14	.53	0	0	0	.01	1	0
3	32	18	1.7	0	0	0	0	0	0
4	15	8	.32	0	0	0	0	0	0
5	8.7	3	.07	0	0	0	0	0	0
6	6.0	2	.03	0	0	0	0	0	0
7	3.6	2	.02	0	0	0	0	0	0
8	1.5	2	.01	0	0	0	0	0	0
9	1.1	2	.01	0	0	0	0	0	0
10	.60	1	0	0	0	0	0	0	0
11	.56	3	.01	0	0	0	0	0	0
12	1.4	13	.05	0	0	0	0	0	0
13	1.4	6	.02	0	0	0	0	0	0
14	1.5	14	.06	0	0	0	0	0	0
15	.82	10	.02	0	0	0	.08	4	0
16	1.1	9	.03	0	0	0	27	23	1.8
17	1.2	7	.02	0	0	0	27	17	1.3
18	1.1	6	.02	0	0	0	9.7	7	.18
19	1.4	10	.04	0	0	0	3.4	3	.03
20	1.6	11	.05	0	0	0	1.6	2	.01
21	1.2	9	.03	0	0	0	.75	1	0
22	.65	7	.01	3.2	3	.06	.38	2	0
23	.40	6	.01	5.1	6	.08	1.0	6	.02
24	.24	4	0	1.8	4	.02	.10	2	0
25	.08	1	0	.96	3	.01	.24	9	.01
26	0	0	0	.38	3	0	2.0	12	.06
27	0	0	0	.17	3	0	2.3	6	.04
28	0	0	0	.28	4	0	1.7	3	.01
29	0	0	0	---	---	---	1.5	3	.01
30	0	0	0	---	---	---	1.0	5	.01
31	0	0	0	---	---	---	.75	6	.01
TOTAL	90.08	---	3.06	11.89	---	.17	80.65	---	3.49

	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	.75	6	.01						
2	.60	6	.01						
3	.01	3	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	1.4	5	.03						
12	1.7	4	.02						
13	1.0	5	.01						
14	.48	7	.01						
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	0	0	0						
22	0	0	0						
23	0	0	0						
24	0	0	0						
25	0	0	0						
26	0	0	0						
27	0	0	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	---	---	---						
TOTAL	5.94	---	.09	0	0	0			
YEAR	264.40		6.97						

11458100 MILLIKEN CREEK NEAR NAPA, CA

LOCATION.--Lat 38°20'19", long 122°16'06", in Yajome Grant, Napa County, on right bank at upstream side of Hedgeside Road bridge, 3.0 mi (4.8 km) northwest of town of Napa.

DRAINAGE AREA.--17.3 mi^2 (44.8 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 37.68 ft (11.485 m) above mean sea level (levels by county of Napa).

REMARKS.--Records good. Flow regulated by Milliken Reservoir, capacity, 2,000 acre-ft (2.47 km^3) and by several small lakes and diversion dams on the Silverado Golf Course; diversions above station for irrigation of about 500 acres (2.02 km^2).

AVERAGE DISCHARGE.--7 years, 16.7 ft^3/s (0.473 m^3/s), 12,100 acre-ft/yr (14.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,840 ft^3/s (222 m^3/s) Mar. 21, 1975, gage height, 7.89 ft (2.405 m), from rating curve extended above 1,100 ft^3/s (31.2 m^3/s); maximum gage height, 8.38 ft (2.554 m) Jan. 16, 1973 (backwater from debris); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 88 ft^3/s (2.49 m^3/s) Jan. 2, gage height, 2.25 ft (0.686 m), no peak above base of 600 ft^3/s (17 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.53	.74	1.5	.76	.72	.92	.65	0	0	.18	.10
2	1.3	.54	.70	24	.74	.70	.80	.23	0	.23	.38	0
3	1.2	.57	.72	13	.73	.68	.79	.08	0	.48	.45	.02
4	1.4	.76	.75	2.8	.84	.62	.69	.29	0	.26	.01	0
5	1.8	.44	.72	2.0	.86	.66	.81	.53	0	.34	0	0
6	1.4	.41	.65	1.7	.86	.69	.93	.55	0	.43	0	0
7	1.0	.70	.63	1.5	.77	.73	1.3	.10	0	0	0	0
8	.14	1.1	.64	1.4	1.0	.66	1.1	0	0	.02	0	0
9	.15	1.4	.58	1.3	1.0	.76	.18	.14	0	.32	0	0
10	.63	1.3	.52	1.3	.82	.82	.07	.21	.01	.48	.03	0
11	.58	1.3	.51	1.2	.74	.84	.05	.32	.13	.48	.40	0
12	.26	.86	.51	2.0	.70	.82	0	.36	.10	.18	.37	0
13	.01	1.1	.33	1.4	.71	.82	0	.13	.02	.29	.36	0
14	.20	1.3	.05	1.2	.71	.81	0	.01	0	.01	.34	0
15	.36	1.2	0	1.1	.68	3.1	0	0	.26	.37	.31	0
16	.17	.95	0	1.0	.66	19	0	.23	0	.42	.26	0
17	0	1.3	0	.98	.68	3.6	0	.37	0	.32	.29	0
18	.82	1.4	0	.95	.63	2.0	0	.60	0	0	.68	0
19	1.1	1.3	0	.92	.63	1.8	.28	.29	0	0	0	.25
20	.49	1.1	1.3	.93	.70	1.6	.82	.11	0	0	0	.06
21	.47	1.0	.89	1.1	1.4	1.8	.76	.19	0	.27	.13	0
22	.48	.59	.73	.87	1.0	1.4	.60	0	0	.04	.52	0
23	.68	.55	.78	.86	1.0	1.1	.26	.31	.01	.22	.68	0
24	.59	.51	.82	.82	.95	1.2	.34	.41	.78	.20	.82	0
25	.09	.59	.69	.81	.85	1.1	.52	.16	.01	.25	.34	0
26	0	.48	.93	.81	.81	.95	.75	.52	0	.34	.24	0
27	.37	.16	.80	.78	.80	.90	1.3	.15	.49	.13	0	0
28	.82	.16	.78	.77	.75	.84	.92	.31	.46	.51	.03	0
29	1.3	.37	.84	.77	---	1.1	1.1	0	.23	.35	.04	0
30	1.1	.67	2.9	.75	---	1.2	.99	.22	.43	0	0	0
31	.58	---	2.2	.76	---	1.0	---	.15	---	0	0	---
TOTAL	20.99	24.64	21.71	71.28	22.78	54.02	16.28	7.62	2.93	6.94	6.86	.43
MEAN	.68	.82	.70	2.30	.81	1.74	.54	.25	.098	.22	.22	.014
MAX	1.8	1.4	2.9	24	1.4	19	1.3	.65	.78	.51	.82	.25
MIN	0	.16	0	.75	.63	.62	0	0	0	0	0	0
AC-FT	42	49	43	141	45	107	32	15	5.8	14	14	.9

CAL YR 1976 TOTAL 519.80 MEAN 1.42 MAX 24 MIN 0 AC-FT 1030
WTR YR 1977 TOTAL 256.48 MEAN .70 MAX 24 MIN 0 AC-FT 509

11458300 NAPA CREEK AT NAPA, CA

LOCATION.--Lat 38°18'07", long 122°18'10", in Napa Grant, Napa County, on left bank 150 ft (46 m) upstream from bridge on State Highway 29 in town of Napa, 0.6 mi (1.0 km) downstream from confluence of Redwood and Browns Creeks.

DRAINAGE AREA.--14.9 mi^2 (38.6 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 32.60 ft (9.936 m) above mean sea level (levels by county of Napa).

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

AVERAGE DISCHARGE.--7 years, 12.7 ft^3/s (0.360 m^3/s), 9,200 acre-ft/yr (11.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,560 ft^3/s (72.5 m^3/s) Mar. 21, 1975, gage height, 10.90 ft (3.322 m) from crest-stage gage, from rating curve extended above 1,100 ft^3/s (31.2 m^3/s); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 209 ft^3/s (5.92 m^3/s) Jan. 2, gage height, 2.90 ft (0.884 m), no peak above base of 600 ft^3/s (17 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	.02	.03	.31	.15	.14	.33	4.6	.01			0
2	.20	.02	.04	21	.14	.14	.29	.36	.01			0
3	.08	.02	.05	3.2	.14	.14	.29	.08	.01			0
4	.04	.02	.05	1.0	.15	.12	.26	.07	.01			0
5	.04	.02	.05	.49	.15	.12	.26	.05	0			0
6	.04	.02	.05	.24	.15	.12	.26	.07	0			0
7	.03	.02	.05	.15	.15	.14	.26	.06	0			0
8	.03	.01	.05	.15	.65	.15	.36	.11	0			0
9	.03	.01	.05	.14	.26	.58	.36	.44	0			0
10	.02	.01	.05	.14	.17	.24	.29	.12	0			0
11	.02	.22	.05	.14	.12	.17	.26	.08	0			0
12	.02	.09	.05	1.0	.11	.17	.26	.12	0			0
13	.02	.09	.05	.17	.11	.17	.26	.07	0			0
14	.02	3.4	.05	.14	.11	.17	.26	.05	0			0
15	.02	.36	.05	.17	.11	8.1	.26	.03	0			0
16	.02	.09	.05	.20	.11	14	.26	.02	0			0
17	.02	.06	.06	.17	.11	3.5	.23	.01	0			0
18	.02	.05	.06	.17	.11	1.0	.20	.01	0			0
19	.02	.05	.06	.26	.11	.50	.15	.14	0			1.2
20	.02	.04	.06	.29	.71	.39	.15	.06	0			0
21	.02	.04	.06	.26	1.5	.33	.15	.05	0			0
22	.02	.04	.06	.23	.58	.32	.17	.03	0			0
23	.02	.04	.07	.23	.63	.32	.17	.01	0			0
24	.02	.03	.07	.23	.23	.49	.15	.01	0			0
25	.02	.03	.08	.23	.15	.44	.49	.01	0			0
26	.02	.04	.08	.20	.15	.33	.33	.09	0			0
27	.01	.04	.08	.20	.14	.26	.20	.12	0			0
28	.02	.03	.08	.20	.14	.26	.20	.04	0			.01
29	.02	.03	.71	.15	---	.49	.17	.02	0			0
30	.02	.03	5.9	.15	---	.74	.17	.01	0			0
31	.02	---	.63	.14	---	.36	---	.01	---			---
TOTAL	2.52	4.97	8.83	31.75	7.34	34.40	7.45	6.95	.04	0	0	1.21
MEAN	.081	.17	.28	1.02	.26	1.11	.25	.22	.001	0	0	.040
MAX	1.6	3.4	5.9	21	1.5	14	.49	4.6	.01	0	0	1.2
MIN	.01	.01	.03	.14	.11	.12	.15	.01	0	0	0	0
AC-FT	5.0	9.9	18	63	15	68	15	14	.08	0	0	2.4

CAL YR 1976 TOTAL 189.83 MEAN .52 MAX 30 MIN 0 AC-FT 377
WTR YR 1977 TOTAL 105.46 MEAN .29 MAX 21 MIN 0 AC-FT 209

11458300 NAPA CREEK AT NAPA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1977.
CHEMICAL ANALYSES: Water year 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM .7UM-MF (COL./ 100 ML)
DEC											
30...	1200	1.6	352	7.0	9.0	8.7	75	49	--	--	3800
JAN											
02...	1710	38	170	7.1	11.0	--	--	--	--	--	--
FEB											
21...	0800	5.2	439	6.6	11.5	--	--	--	--	B11000	2700
21...	1145	2.4	--	--	11.0	8.0	72	--	--	5900	4700
MAR											
15...	1400	9.4	438	7.2	9.0	--	--	--	--	--	--
15...	1625	21	245	7.2	10.0	--	--	--	--	--	--
15...	1840	23	162	7.6	10.0	--	--	--	49	--	--
15...	2040	15	167	--	9.0	--	--	--	46	--	--

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
DEC										
30...	.86	2.6	.19	--	--	--	<100	--	--	--
JAN										
02...	7.5	9.6	1.2	--	--	--	300	--	--	--
FEB										
21...	.54	.90	.12	<10	--	--	<100	--	--	--
21...	.46	1.0	.12	<10	--	--	<100	--	--	--
MAR										
15...	.69	.78	.06	--	--	--	<100	--	--	--
15...	.82	1.2	.21	--	--	--	<100	--	--	--
15...	1.0	1.9	.30	<10	10	<10	100	.0	<10	40
15...	.89	2.2	.30	<10	10	10	<100	5.0	<10	40

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)	SUSPENDED SOLIDS (MG/L)	VOL. NONFILTRABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
DEC										
30...	176	--	.24	.76	24	24	8	--	--	1.7
JAN										
02...	106	--	.14	10.9	2540	2540	284	--	--	2.1
FEB										
21...	267	--	.36	3.76	23	23	3	--	--	.36
21...	239	--	.33	1.55	19	19	2	--	--	.57
MAR										
15...	--	275	--	--	13	13	11	.09	.00	.09
15...	--	159	--	--	96	96	32	.36	.01	.37
15...	--	108	--	--	98	98	32	--	--	.93
15...	--	114	--	--	82	82	32	--	--	1.3

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

11458350 TULUCAY CREEK AT NAPA, CA

LOCATION.--Lat 38°17'09", long 122°16'29", in Tulucay Grant, Napa County, on left bank 150 ft (46 m) downstream from bridge on State Highways 12 and 29 in Napa.

DRAINAGE AREA.--12.6 mi^2 (32.6 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 3.65 ft (1.113 m) above mean sea level (levels by county of Napa).

REMARKS.--Records good. No regulation; some small diversions above station for irrigation of about 30 acres (121,000 m^2).

AVERAGE DISCHARGE.--6 years, 6.87 ft^3/s (0.195 m^3/s), 4,980 acre-ft/yr (6.14 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,260 ft^3/s (35.7 m^3/s) Mar. 21, 1975, gage height, 4.54 ft (1.384 m), from rating curve extended above 560 ft^3/s (15.9 m^3/s); maximum gage height, 5.55 ft (1.692 m) Jan. 16, 1973 (affected by tide); no flow many days in 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft^3/s (0.74 m^3/s) Jan. 2, gage height, 2.19 ft (0.668 m), no peak above base of 400 ft^3/s (11 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.81	.05	.19	1.4	.33	.19	.67	.61	.11	.04	.02	0
2	.10	.05	.21	8.8	.32	.19	.70	.13	.13	.04	.05	0
3	.09	.05	.22	4.5	.34	.21	.69	.18	.07	.04	.07	0
4	.08	.04	.22	2.2	.33	.21	.42	.17	.06	.05	.06	0
5	.08	.04	.21	1.4	.27	.21	.39	.16	.06	.05	.03	0
6	.08	.03	.19	1.1	.24	.20	.50	.15	.07	.05	.04	0
7	.08	.03	.19	.80	.23	.19	.51	.16	.07	.06	.04	0
8	.08	.04	.21	.68	1.2	.19	.61	.24	.08	.06	.04	0
9	.08	.04	.21	.63	.37	.28	.58	.17	.07	.06	.04	0
10	.06	.04	.19	.58	.25	.17	.39	.11	.07	.06	.04	0
11	.07	.24	.18	.58	.21	.17	.34	.09	.06	.05	.04	0
12	.07	.04	.17	1.4	.20	.17	.31	.09	.06	.06	.03	0
13	.06	.11	.18	.69	.20	.15	.31	.08	.06	.07	.02	0
14	.05	.94	.17	.62	.28	.15	.31	.08	.06	.06	.02	0
15	.06	.27	.18	.58	.24	3.3	.29	.07	.05	.05	.01	0
16	.06	.26	.19	.54	.21	7.3	.28	.07	.05	.05	.01	0
17	.06	.24	.20	.50	.22	2.2	.26	.07	.05	.05	.02	0
18	.06	.24	.19	.48	.23	1.1	.25	.12	.05	.04	.03	0
19	.05	.24	.19	.48	.22	.53	.24	.14	.05	.04	0	.62
20	.05	.22	.19	.48	.34	.40	.22	.08	.05	.03	0	.07
21	.06	.24	.20	.46	.63	.40	.21	.09	.04	.03	0	.08
22	.06	.23	.43	.44	.26	.37	.19	.07	.04	.03	0	.07
23	.06	.23	.94	.41	.37	.45	.19	.08	.04	.03	0	.07
24	.05	.23	1.2	.40	.23	.58	.15	.08	.04	.04	0	.07
25	.06	.25	1.2	.39	.22	1.3	.24	.08	.04	.03	0	.01
26	.05	.25	1.0	.37	.21	.62	.14	.12	.04	.03	0	.01
27	.04	.21	.91	.35	.19	.84	.13	.10	.04	.03	0	.04
28	.04	.18	.66	.34	.19	.66	.13	.11	.04	.02	0	.05
29	.05	.18	1.3	.34	---	1.0	.13	.10	.04	.02	0	.04
30	.05	.19	3.0	.34	---	.95	.13	.09	.04	.02	0	.02
31	.05	---	2.3	.34	---	.79	---	.09	---	.02	0	---
TOTAL	2.70	5.40	17.02	32.62	8.53	25.47	9.91	3.98	1.73	1.31	.61	1.15
MEAN	.087	.18	.55	1.05	.30	.82	.33	.13	.058	.042	.020	.038
MAX	.81	.94	3.0	8.8	1.2	7.3	.70	.61	.13	.07	.07	.62
MIN	.04	.03	.17	.34	.19	.15	.13	.07	.04	.02	0	0
AC-FT	5.4	11	34	65	17	51	20	7.9	3.4	2.6	1.2	2.3

CAL YR 1976 TOTAL 135.19 MEAN .37 MAX 16 MIN .01 AC-FT 268
WTR YR 1977 TOTAL 110.43 MEAN .30 MAX 8.8 MIN 0 AC-FT 219

11458500 SONOMA CREEK AT AGUA CALIENTE, CA

LOCATION.--Lat 38°19'24", long 122°29'36", in Agua Caliente Grant, Sonoma County, on left bank 20 ft (6 m) upstream from bridge, and 0.4 mi (0.6 km) west of Agua Caliente.

DRAINAGE AREA.--58.4 mi^2 (151.3 km^2).

PERIOD OF RECORD.--February 1955 to current year. Prior to October 1966, published as "at Boyes Hot Springs."

GAGE.--Water-stage recorder. Datum of gage is 104.28 ft (31.785 m) above mean sea level. Prior to July 24, 1967, at site 0.8 mi (1.3 km) downstream at different datum. July 24, 1967, to Oct. 9, 1968, at site 130 ft (40 m) upstream at different datum.

REMARKS.--Records fair. No regulation; some diversion above station for irrigation of about 2,000 acres (8.09 km^2).

AVERAGE DISCHARGE.--22 years, 69.1 ft^3/s (1.957 m^3/s), 50,060 acre-ft/yr (61.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,880 ft^3/s (251 m^3/s) Dec. 22, 1955, gage height, 17.10 ft (5.212 m) site and datum then in use, from rating curve extended above 4,100 ft^3/s (116 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 101 ft^3/s (2.86 m^3/s) Mar. 15, gage height, 4.88 ft (1.487 m), no peak above base of 2,300 ft^3/s (65 m^3/s); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	.16	1.4	3.3	1.4	3.5	1.6	1.3	.51			0
2	1.9	.78	1.4	22	1.1	2.5	1.1	1.5	.43			0
3	1.2	.26	1.4	14	.99	2.6	1.2	.88	.35			0
4	.71	.19	1.4	3.9	.92	2.6	1.2	.73	.27			0
5	.52	.34	1.5	1.8	.88	2.4	.96	.66	.20			0
6	.49	.74	1.6	1.4	.58	1.9	.72	.81	.15			0
7	.48	1.1	1.6	1.1	.38	2.4	.69	1.0	.11			0
8	.42	.99	1.6	1.1	2.0	2.9	.78	1.1	.07			0
9	.44	1.1	1.7	1.0	2.7	2.9	.87	1.5	.04			0
10	.46	1.3	1.7	1.0	1.4	1.5	.81	1.1	0			0
11	.47	4.4	1.7	1.0	1.1	1.3	.78	.46	0			0
12	.49	4.5	1.7	2.0	.95	1.1	.84	1.7	0			0
13	.45	4.1	1.7	1.7	.95	2.2	.79	1.1	0			0
14	.41	11	1.8	1.4	.95	3.3	.55	.90	0			0
15	.33	6.6	1.8	1.2	.88	24	.25	.71	0			0
16	.31	4.0	1.7	1.1	.75	51	.27	.48	0			0
17	.41	.99	1.7	1.1	.85	12	.47	.27	0			0
18	.42	1.9	1.7	1.1	.38	7.0	.54	.33	0			0
19	.45	1.4	1.7	1.0	.46	4.9	.55	.47	0			0
20	.28	1.4	2.4	1.1	.52	4.3	.26	.39	0			0
21	.12	1.4	2.5	1.0	9.4	3.3	.41	.62	0			0
22	.10	1.5	2.7	.99	9.5	2.4	.64	.89	0			0
23	.10	1.6	2.8	.99	6.4	2.2	.60	.80	0			0
24	.11	1.7	2.8	.99	5.2	2.7	.80	.64	0			0
25	.26	1.6	2.9	.99	3.9	2.6	1.6	.65	0			0
26	.24	1.6	3.0	1.2	2.6	2.1	.93	1.1	0			0
27	.14	1.5	3.9	1.3	2.3	1.9	.74	1.1	0			0
28	.13	1.5	4.1	1.4	2.4	1.8	.47	.84	0			0
29	.17	1.4	4.2	1.4	---	1.6	.76	.78	0			0
30	.19	1.4	10	1.4	---	1.5	.76	.70	0			.04
31	.19	---	6.0	1.4	---	1.8	---	.62	---			---
TOTAL	14.59	62.45	78.1	76.36	61.84	160.2	22.94	26.13	2.13	0	0	.04
MEAN	.47	2.08	2.52	2.46	2.21	5.17	.76	.84	.071	0	0	.001
MAX	2.2	11	10	22	9.5	51	1.6	1.7	.51	0	0	.04
MIN	.10	.16	1.4	.99	.38	1.1	.25	.27	0	0	0	0
AC-FT	29	124	155	151	123	318	46	52	4.2	0	0	.08

CAL YR 1976 TOTAL 1424.21 MEAN 3.89 MAX 180 MIN 0 AC-FT 2820
WTR YR 1977 TOTAL 504.78 MEAN 1.38 MAX 51 MIN 0 AC-FT 1000

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, on left bank 0.8 mi (1.3 km) upstream from bridge on San Antonio Road, 3.6 mi (5.8 km) southeast of Petaluma.

DRAINAGE AREA.--28.9 mi^2 (74.9 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13 ft^3/s (0.37 m^3/s) Feb. 29, 1976, gage height, 4.00 ft (1.219 m); no flow many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.6 ft^3/s (0.22 m^3/s) Mar. 15, gage height, 3.91 ft (1.192 m), no peak above base of 150 ft^3/s (4.2 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0	.03					
2						0	.03					
3						0	.02					
4						0	.01					
5						0	.01					
6						0	.01					
7						0	.01					
8						0	.01					
9						0	.01					
10						0	.01					
11						0	.01					
12						0	.01					
13						0	.01					
14						0	.01					
15						1.0	.01					
16						3.3	.01					
17						.73	0					
18						.16	0					
19						.04	0					
20						.03	0					
21						.02	0					
22						.02	0					
23						.02	0					
24						.03	0					
25						.04	0					
26						.04	0					
27						.04	0					
28						.04	0					
29					---	.04	0					
30					---	.03	0					
31		---			---	.03	---		---			---
TOTAL	0	0	0	0	0	5.61	.21	0	0	0	0	0
MEAN	0	0	0	0	0	.18	.007	0	0	0	0	0
MAX	0	0	0	0	0	3.3	.03	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	11	.4	0	0	0	0	0

CAL YR 1976 TOTAL 34.98 MEAN .096 MAX 5.4 MIN 0 AC-FT 69
WTR YR 1977 TOTAL 5.82 MEAN .016 MAX 3.3 MIN 0 AC-FT 12

11459500 NOVATO CREEK AT NOVATO, CA

LOCATION.--Lat 38°06'28", long 122°34'44", in Novato Grant, Marin County, on left bank in Novato, 100 ft (30 m) upstream from 7th Street Bridge.

DRAINAGE AREA.--17.6 mi^2 (45.6 km^2).

PERIOD OF RECORD.--October 1946 to current year. Records of diversions for water years 1952-53, estimated. Prior to October 1966 published as "near Novato."

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m), from topographic map. Prior to Aug. 23, 1967, at site 0.6 mi (1.0 km) upstream at different datum.

REMARKS.--Records fair including those for period of no gage-height record Jan. 16 to Feb. 23. Flow regulated by Stafford Lake beginning Dec. 1, 1951, capacity, 4,500 acre-ft (5.55 hm^3) since Oct. 18, 1954; contents, 750 acre-ft (925,000 m^3) Sept. 30, 1976, and 3,330 acre-ft (4.11 hm^3) Sept. 30, 1977. Diversion from Stafford Lake for municipal water supply began Apr. 25, 1952, and amounted to 445 acre-ft (549,000 m^3) for the current year. Diversion from Russian River into Stafford Lake amounted to 3,810 acre-ft (4.70 hm^3) during current year.

COOPERATION.--Record of diversions furnished by North Marin County Water District.

AVERAGE DISCHARGE (adjusted for diversions).--31 years, 12.3 ft^3/s (0.348 m^3/s), 8,910 acre-ft/yr (11.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft^3/s (56.6 m^3/s) Jan. 14, 1970, gage height, 11.01 ft (3.356 m); no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 166 ft^3/s (4.70 m^3/s) Nov. 14, gage height, 4.28 ft (1.305 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	0	0	1.1	.11	.35	.32	0				
2	.48	.16	0	30	.11	.35	.37	0				
3	.21	0	0	4.4	.10	.35	.34	0				
4	.03	0	0	1.3	.10	.30	.32	0				
5	.01	0	0	.76	.10	.30	.21	0				
6	0	0	0	.52	.09	.30	.33	0				
7	0	0	0	.44	.09	.26	.38	0				
8	0	0	0	.44	2.6	.26	.45	2.0				
9	0	0	0	.35	.40	1.1	.41	1.5				
10	0	0	0	.30	.33	.16	.38	.08				
11	0	5.1	0	.44	.30	.03	.34	.17				
12	0	.30	0	5.2	.27	.03	.29	.04				
13	0	.01	0	.52	.25	.12	.28	.01				
14	0	11	0	.44	.22	.12	.33	.03				
15	0	.76	0	.35	.19	23	.11	0				
16	0	.35	0	.31	.18	5.7	.02	0				
17	0	.25	0	.29	.17	1.3	.09	0				
18	0	.16	0	.26	.16	.68	.05	0				
19	0	.11	0	.23	.16	.60	0	0				
20	0	.08	0	.21	.55	.48	0	0				
21	0	.06	0	.20	3.6	.35	0	0				
22	0	.04	0	.19	1.6	.37	0	0				
23	0	.04	0	.17	4.2	.90	0	0				
24	0	.03	0	.16	.44	1.2	0	0				
25	0	.02	0	.16	.35	.48	0	0				
26	0	.02	0	.15	.30	.40	0	0				
27	0	.02	0	.14	.30	.37	0	0				
28	0	.01	0	.14	.35	.36	0	0				
29	0	.01	5.9	.13	---	.35	0	0				
30	0	.01	11	.12	---	.34	0	0				
31	0	---	1.2	.12	---	.34	---	0	---			---
TOTAL	6.03	18.54	18.1	49.54	17.62	41.25	5.02	3.83	0	0	0	0
MEAN	.19	.62	.58	1.60	.63	1.33	.17	.12	0	0	0	0
MAX	5.3	11	11	30	4.2	23	.45	2.0	0	0	0	0
MIN	0	0	0	.12	.09	.03	0	0	0	0	0	0
AC-FT	12	37	36	98	35	82	10.0	7.6	0	0	0	0

CAL YR 1976 TOTAL 134.10 MEAN .37 MAX 13 MIN 0 AC-FT 266
WTR YR 1977 TOTAL 159.93 MEAN .44 MAX 30 MIN 0 AC-FT 317

11460000 CORTE MADERA CREEK AT ROSS, CA

LOCATION.--Lat 37°57'45", long 122°33'20", in Punta de Quentin Grant, Marin County, on left bank behind fire station at Ross, 1.7 mi (2.7 km) southwest of San Rafael, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--18.1 mi^2 (46.9 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 7.97 ft (2.429 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair except those below 2.0 ft^3/s (0.057 m^3/s), which are poor. Flow regulated by Phoenix Lake 1.7 mi (2.7 km) upstream, capacity, 612 acre-ft (755,000 m^3). Diversion on tributary above station by Marin Municipal Water District.

AVERAGE DISCHARGE.--26 years, 26.9 ft^3/s (0.762 m^3/s), 19,490 acre-ft/yr (24.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,620 ft^3/s (103 m^3/s) Dec. 22, 1955, gage height, 17.45 ft (5.319 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 144 ft^3/s (4.08 m^3/s) Jan. 2, Sept. 19, gage height, 7.36 ft (2.243 m), no peak above base of 1,000 ft^3/s (28 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	.15	.30	1.5	1.0	1.5	2.4	2.8	.18	.02		0
2	.37	.14	.23	54	1.0	1.5	2.3	1.3	.18	.01		0
3	.30	.12	.23	21	1.0	1.5	2.2	1.2	.18	0		0
4	.05	.23	.23	4.4	1.0	1.5	2.2	1.2	.18	0		0
5	.09	.23	.23	2.7	.94	1.5	2.2	1.2	.12	0		0
6	.10	.30	.23	2.1	.88	1.6	2.1	1.2	.08	0		0
7	.08	.30	.23	1.9	.88	1.7	1.9	1.3	.12	0		0
8	.07	.45	.23	1.8	5.5	1.7	2.3	2.5	.13	0		0
9	.05	.45	.37	1.7	1.4	2.4	1.8	1.3	.16	0		0
10	.02	.54	.54	1.7	.99	1.7	1.8	.48	.18	0		0
11	.06	6.4	.54	1.7	.87	1.7	1.7	.44	.18	0		0
12	.05	.35	.54	5.6	.81	1.7	1.7	.43	.14	0		0
13	.04	.94	.76	1.4	.86	1.7	1.7	.36	.18	0		0
14	.03	3.6	1.3	1.2	.88	1.7	1.8	.30	.15	.03		0
15	.04	.47	1.3	1.2	.87	42	1.8	.30	.20	0		0
16	.05	.45	1.3	1.2	.82	20	1.6	.30	.18	0		0
17	.02	.76	1.3	1.2	.78	4.5	1.6	.37	.17	0		0
18	.03	.88	1.0	1.2	.80	3.3	1.6	.45	.17	0		0
19	.05	.88	1.0	1.2	.72	2.8	1.6	.45	.16	0		11
20	.09	.88	1.3	1.2	1.9	2.6	1.6	.30	.14	0		.01
21	.08	.76	1.3	1.5	6.5	2.4	1.6	.30	.13	0		0
22	.10	.64	1.3	1.1	1.7	2.4	1.6	.30	.07	0		0
23	.11	.54	1.3	1.0	5.7	3.1	1.5	.30	.04	0		0
24	.11	.54	1.5	1.0	1.7	7.9	1.4	.30	.04	0		0
25	.11	.45	1.5	1.0	1.5	2.7	2.1	.30	.05	0		0
26	.15	.37	1.5	1.0	1.4	2.4	1.3	.37	.03	0		0
27	.13	.37	1.5	1.0	1.4	2.4	1.3	.30	.03	0		0
28	.11	.30	1.9	1.0	1.5	2.4	1.3	.27	.02	0		.35
29	.13	.30	2.3	1.0	---	2.4	1.3	.21	.02	0		.05
30	.15	.30	9.4	1.0	---	2.4	1.3	.17	.02	0		0
31	.11	---	2.7	1.0	---	2.4	---	.18	---	0		---
TOTAL	6.78	23.09	39.36	121.5	45.30	131.5	52.6	21.18	3.63	.06	0	11.41
MEAN	.22	.77	1.27	3.92	1.62	4.24	1.75	.68	.12	.002	0	.38
MAX	3.9	6.4	9.4	54	6.5	42	2.4	2.8	.20	.03	0	11
MIN	.02	.12	.23	1.0	.72	1.5	1.3	.17	.02	0	0	0
AC-FT	13	46	78	241	90	261	104	42	7.2	.1	0	23

CAL YR 1976 TOTAL 671.69 MEAN 1.84 MAX 66 MIN .02 AC-FT 1330
WTR YR 1977 TOTAL 456.41 MEAN 1.25 MAX 54 MIN 0 AC-FT 905

11460100 ARROYO CORTE MADERA DEL PRESIDIO AT MILL VALLEY, CA

LOCATION.--Lat 37°53'50", long 122°32'06", in Sausalito Grant, Marin County, on right bank near south boundary of town of Mill Valley, 1 mi (2 km) upstream from mouth.

DRAINAGE AREA.--4.69 mi^2 (12.15 km^2).

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) above mean sea level.

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

AVERAGE DISCHARGE.--10 years, 6.55 ft^3/s (0.185 m^3/s), 4,750 acre-ft/yr (5.86 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft^3/s (33.4 m^3/s) Jan. 21, 1970, gage height, 7.52 ft (2.292 m); no flow for many days in 1968, 1975-77.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 83 ft^3/s (2.35 m^3/s) Jan. 2, gage height, 4.18 ft (1.274 m), no peak above base of 220 ft^3/s (6.2 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	.05	.20	1.0	.38	.46	.49	.09	.14			0
2	.25	.05	.17	31	.38	.44	.39	.08	.14			0
3	.31	.03	.14	7.4	.40	.41	.36	.11	.08			0
4	.21	.01	.16	2.5	.37	.39	.32	.07	0			0
5	.09	0	.18	1.4	.25	.35	.38	.06	0			0
6	.05	0	.18	.94	.24	.31	.37	.07	0			0
7	.04	0	.19	.78	.22	.33	.31	.06	0			0
8	.04	0	.18	.67	1.3	.35	.92	.70	0			0
9	.04	0	.16	.60	.45	.85	.50	.44	0			0
10	.06	0	.16	.58	.38	.40	.37	.30	0			0
11	.05	1.9	.15	.53	.37	.37	.31	.25	0			0
12	.04	.33	.15	.73	.34	.41	.31	.25	0			0
13	.04	.32	.16	.51	.33	.32	.25	.23	.01			0
14	.04	6.6	.18	.51	.32	.33	.19	.16	0			0
15	.04	1.0	.18	.48	.31	20	.14	.09	0			0
16	.03	.55	.18	.46	.31	8.8	.10	.09	0			0
17	.03	.42	.19	.46	.30	3.3	.10	.09	0			0
18	.03	.41	.15	.46	.29	1.8	.07	.20	0			0
19	.04	.31	.14	.45	.25	1.3	.06	.23	0			2.2
20	.04	.20	.09	.45	.48	1.0	.08	.20	0			.06
21	.04	.17	.08	.45	2.8	.83	.11	.15	0			0
22	.03	.21	.09	.41	.70	.73	.10	.20	0			0
23	.01	.22	.14	.41	4.0	1.5	.08	.15	0			0
24	0	.23	.10	.41	.93	6.5	.07	.15	0			0
25	0	.21	.10	.40	.69	2.7	.31	.16	0			0
26	0	.21	.14	.38	.55	1.7	.11	2.4	0			0
27	0	.19	.15	.38	.49	1.2	.08	.70	0			0
28	0	.21	.16	.38	.48	.98	.08	.39	0			.58
29	0	.20	3.2	.38	---	.85	.09	.26	0			.59
30	0	.21	13	.38	---	.70	.09	.23	0			.04
31	0	---	2.1	.38	---	.58	---	.23	---			---
TOTAL	3.25	14.24	22.55	56.27	18.31	60.19	7.14	8.79	.37	0	0	3.47
MEAN	.10	.47	.73	1.82	.65	1.94	.24	.28	.012	0	0	.12
MAX	1.7	6.6	13	31	4.0	20	.92	2.4	.14	0	0	2.2
MIN	0	0	.08	.38	.22	.31	.06	.06	0	0	0	0
AC-FT	6.4	28	45	112	36	119	14	17	.7	0	0	6.9

CAL YR 1976 TOTAL 270.57 MEAN .74 MAX 29 MIN 0 AC-FT 537
WTR YR 1977 TOTAL 194.58 MEAN .53 MAX 31 MIN 0 AC-FT 386

11460600 LAGUNITAS CREEK NEAR POINT REYES STATION, CA

LOCATION.--Lat 39°04'49", long 122°47'00", in Nicasio (Black) Grant, Marin County, on right bank at upstream side of road bridge, 300 ft (91 m) downstream from small right-bank tributary, and 1.4 mi (2.3 km) northeast of town of Point Reyes Station.

DRAINAGE AREA.--81.7 mi^2 (211.6 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map.

REMARKS.--Records good. Flow regulated by Nicasio Reservoir, capacity, 22,450 acre-ft (27.7 hm^3), Kent Lake, capacity, 16,680 acre-ft (20.6 hm^3), and Alpine Lake, capacity, 8,890 acre-ft (11.0 hm^3), all of which divert water for domestic and industrial use in the county of Marin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,210 ft^3/s (204 m^3/s) Mar. 21, 1975, gage height, 16.39 ft (4.996 m), from rating curve extended above 1,300 ft^3/s (36.8 m^3/s); minimum daily, 0.01 ft^3/s (<0.001 m^3/s) Sept. 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 246 ft^3/s (6.97 m^3/s) Jan. 2, gage height, 4.55 ft (1.387 m); minimum daily, 0.01 ft^3/s (<0.001 m^3/s) Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	.08	.82	5.7	2.8	3.5	2.2	.66	.21	.65	1.8	1.6
2	.53	.03	.90	71	2.7	3.3	2.1	.75	.14	1.2	1.9	1.6
3	.35	.04	.98	70	2.7	3.0	2.0	.90	.10	1.7	1.9	1.7
4	.69	.06	.82	22	2.7	2.9	1.8	.84	.07	1.7	.37	1.9
5	.30	.07	.82	12	2.6	2.8	1.9	.72	.07	1.8	2.6	1.8
6	.17	.07	.82	8.3	2.6	2.7	2.2	.52	.06	1.7	2.1	1.6
7	.10	.07	.82	6.4	2.6	2.6	2.2	.49	.06	1.8	1.3	1.7
8	.09	.35	.82	5.5	3.4	2.6	2.3	1.0	.06	1.8	1.9	1.7
9	.07	1.1	.82	4.7	5.5	2.6	2.8	1.7	.05	1.7	1.9	1.6
10	.07	1.5	.82	4.4	3.9	2.6	2.4	1.8	.04	1.2	1.6	1.5
11	.07	3.0	.82	4.1	3.1	2.6	2.2	.56	.03	1.5	2.1	1.6
12	.07	4.6	.82	4.3	2.9	2.5	2.1	.80	.03	1.8	1.8	1.6
13	.07	3.9	.82	5.0	2.7	2.5	2.0	.85	.03	1.9	1.6	1.6
14	.09	7.9	.82	4.1	2.7	2.5	1.9	.68	.36	1.9	1.8	1.6
15	.17	5.8	.90	3.9	2.7	24	1.7	.57	.86	1.9	2.3	1.6
16	.20	2.4	.90	3.6	2.8	72	1.6	.49	.90	1.9	2.0	1.7
17	.20	1.3	.90	3.5	2.6	28	1.5	.38	.90	2.0	1.8	1.9
18	.12	.90	.90	3.5	2.4	15	1.5	.35	.90	2.0	1.7	2.0
19	.10	.74	.90	3.3	2.3	10	1.5	.49	.88	2.0	2.0	2.2
20	.10	.53	.90	3.3	2.3	7.9	1.2	.46	.82	2.0	2.1	.74
21	.09	.47	.90	3.1	3.6	6.0	1.1	.41	.82	2.0	1.9	.11
22	.09	.47	.90	3.1	7.3	4.4	.99	.41	.74	2.0	1.6	.06
23	.09	.47	1.1	3.0	5.7	2.5	.87	.39	.74	2.0	1.5	.04
24	.07	.47	1.3	2.8	6.6	4.4	.82	.35	.74	2.0	1.5	.03
25	.07	.47	1.5	2.8	5.2	3.7	.79	.27	.74	2.0	1.5	.02
26	.07	.53	1.5	2.8	4.4	1.5	.82	.42	.67	1.9	1.5	.01
27	.07	.82	1.5	2.8	3.9	1.9	.87	.80	.63	1.8	1.4	.02
28	.06	.74	1.5	2.8	3.8	2.4	.82	1.1	.53	1.8	1.5	.03
29	.06	.74	1.7	2.8	---	2.4	.78	.77	.75	1.8	1.6	.03
30	.06	.82	6.9	2.8	---	2.3	.66	.50	.63	1.8	1.6	.03
31	.07	---	11	2.8	---	2.3	---	.30	---	1.8	1.6	---
TOTAL	5.96	40.44	46.92	280.2	98.5	229.4	47.62	20.73	13.56	55.05	53.77	33.62
MEAN	.19	1.35	1.51	9.04	3.52	7.40	1.59	.67	.45	1.78	1.73	1.12
MAX	1.6	7.9	11	71	7.3	72	2.8	1.8	.90	2.0	2.6	2.2
MIN	.06	.03	.82	2.8	2.3	1.5	.66	.27	.03	.65	.37	.01
AC-FT	12	80	93	556	195	455	94	41	27	109	107	67

CAL YR 1976 TOTAL 1359.55 MEAN 3.71 MAX 75 MIN .03 AC-FT 2700
WTR YR 1977 TOTAL 925.77 MEAN 2.54 MAX 72 MIN .01 AC-FT 1840

11460600 LAGUNITAS CREEK NEAR POINT REYES STATION, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 10...	1245	1.8	334	7.2	18.0	7.4	150	0	30

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 10...	18	13	16	.5	2.0	190	0	160	6.5

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 10...	11	.1	6.6	181	.25	.88	.01	50	170

11460800 WALKER CREEK NEAR TOMALES, CA

LOCATION.--Lat 38°12'35", long 122°51'35", in Nicasio Grant, Marin County, on left bank 1,300 ft (396 m) upstream from Chileno Creek, and 3.5 mi (5.6 km) southeast of Tomales.

DRAINAGE AREA.--37.1 mi^2 (96.1 km^2).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 56.74 ft (17.294 m) above mean sea level.

REMARKS.--Records good. No regulation; small diversions above station for irrigation of about 50 acres (202,000 m^2) and stock watering.

AVERAGE DISCHARGE.--18 years, 43.0 ft^3/s (1.218 m^3/s), 31,150 acre-ft/yr (38.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,420 ft^3/s (153 m^3/s) Jan. 5, 1966, gage height, 22.23 ft (6.776 m); maximum gage height, 22.91 ft (6.983 m) Jan. 16, 1973; no flow at times in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17 ft^3/s (0.48 m^3/s) Jan. 3, gage height, 4.84 ft (1.475 m), no peak above base of 2,000 ft^3/s (57 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0	.21	.41	.52	.13	.05	.03		
2				.02	.21	.36	.52	.18	.05	.03		
3				8.4	.20	.33	.47	.18	.05	.03		
4				2.8	.19	.29	.43	.14	.05	.03		
5				.95	.19	.29	.43	.11	.05	.02		
6				.58	.18	.38	.43	.09	.05	.02		
7				.43	.37	.33	.43	.08	.07	.02		
8				.36	1.3	.33	.59	.10	.08	.01		
9				.31	.76	.48	.59	.16	.08	.01		
10				.30	.65	.43	.52	.12	.09	.01		
11				.27	.56	.34	.38	.08	.10	.01		
12				.98	.50	.32	.34	.08	.08	.01		
13				1.2	.47	.29	.30	.08	.08	0		
14				.63	.44	.33	.26	.07	.08	0		
15				.45	.40	2.5	.26	.06	.08	0		
16				.40	.37	6.8	.22	.06	.08	0		
17				.38	.35	2.7	.22	.06	.09	0		
18				.34	.33	1.5	.19	.09	.11	0		
19				.34	.31	.89	.17	.08	.08	0		
20				.34	.80	.89	.15	.07	.08	0		
21				.30	2.0	.99	.15	.05	.07	0		
22				.30	1.6	.89	.14	.05	.05	0		
23				.26	1.8	.99	.12	.05	.04	0		
24				.26	1.2	1.3	.12	.05	.04	0		
25				.26	.87	1.5	.12	.05	.04	0		
26				.26	.70	1.1	.11	.08	.03	0		
27				.22	.50	.89	.10	.07	.03	0		
28				.22	.45	.80	.10	.05	.03	0		
29				.22	---	.73	.11	.05	.03	0		
30				.22	---	.65	.10	.05	.02	0		
31		---		.22	---	.59	---	.05	---	0		---
TOTAL	0	0	0	22.22	17.91	30.62	8.59	2.62	1.86	.23	0	0
MEAN	0	0	0	.72	.64	.99	.29	.085	.062	.007	0	0
MAX	0	0	0	8.4	2.0	6.8	.59	.18	.11	.03	0	0
MIN	0	0	0	0	.18	.29	.10	.05	.02	0	0	0
AC-FT	0	0	0	44	36	61	17	5.2	3.7	.5	0	0

CAL YR 1976 TOTAL 425.01 MEAN 1.16 MAX 74 MIN 0 AC-FT 843
WTR YR 1977 TOTAL 84.05 MEAN .23 MAX 8.4 MIN 0 AC-FT 167

11461000 RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'44", long 123°11'38", in Yokaya Grant, Mendocino County, on right bank 20 ft (6 m) downstream from bridge on Lake Mendocino Drive, 0.4 mi (0.6 km) upstream from East Fork, 0.6 mi (1.0 km) downstream from York Creek, and 3.2 mi (5.1 km) north of Ukiah.

DRAINAGE AREA.--100 mi^2 (259 km^2).

WATER-DISCHARGE RECORDS

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) above mean sea level. Prior to October 1952, nonrecording gage at bridge 20 ft (6 m) upstream at different datum. Oct. 1, 1952, to Nov. 8, 1971, water-stage recorder at site 0.6 mi (1.0 km) upstream at different datums.

REMARKS.--Records good. No regulation. Diversions above station for irrigation of about 1,000 acres (4.05 km^2).

COOPERATION.--Nine discharge measurements were furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE.--27 years, 174 ft^3/s (4.928 m^3/s), 126,100 acre-ft/yr (155 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft^3/s (535 m^3/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, 1975-77.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 271 ft^3/s (7.67 m^3/s) Mar. 15, gage height, 8.18 ft (2.493 m), no peak above base of 4,000 ft^3/s (113 m^3/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.08	1.3	7.1	2.3	11	13	3.2	.92			
2	.04	.09	1.3	31	1.9	9.4	11	3.8	1.2			
3	.04	.13	1.3	54	2.3	6.6	9.4	3.8	0			
4	.04	.16	1.7	37	2.7	6.6	8.9	3.8	0			
5	.04	.18	1.7	18	2.5	6.6	8.4	4.1	0			
6	.04	.20	1.7	11	3.0	6.2	7.1	2.5	.29			
7	.02	.20	1.7	8.4	2.5	5.8	5.8	2.7	.35			
8	0	.20	1.7	7.5	7.5	5.5	7.5	3.5	.47			
9	0	.23	1.7	5.8	13	10	8.0	5.1	.47			
10	0	.23	1.7	5.1	10	22	5.1	6.6	.47			
11	0	3.8	1.7	4.8	7.5	14	4.4	5.5	.47			
12	0	2.3	1.7	6.6	6.2	12	5.8	5.5	.47			
13	0	1.9	1.7	7.1	4.8	13	4.4	4.8	.47			
14	0	9.9	1.9	7.1	4.4	11	2.7	3.2	.35			
15	0	11	1.9	6.6	4.4	87	2.7	2.3	.35			
16	0	6.6	2.3	6.2	4.1	142	3.2	2.5	.12			
17	0	3.5	2.3	5.8	3.8	87	3.5	2.7	.12			
18	0	2.3	2.3	5.5	2.7	58	2.3	2.0	.05			
19	0	1.9	2.3	5.5	2.7	38	1.5	2.7	0			
20	0	1.7	2.3	4.4	3.8	25	1.0	3.0	0			
21	0	1.7	2.3	4.1	62	20	.70	2.3	0			
22	0	1.7	2.3	4.1	78	14	.58	1.7	0			
23	0	1.7	3.0	4.1	51	16	.47	1.7	0			
24	0	1.7	3.0	4.1	47	115	.23	1.7	0			
25	0	4.4	3.0	3.8	27	115	.85	1.9	0			
26	.02	5.1	3.0	3.8	18	59	2.2	2.3	0			
27	.04	1.9	3.0	3.8	13	39	2.5	4.4	0			
28	.04	1.3	3.0	3.8	11	27	2.3	3.2	0			
29	.04	1.3	3.8	3.8	---	21	2.0	2.0	0			
30	.04	1.3	8.0	3.5	---	18	2.3	2.0	0			
31	.06	---	8.0	3.0	---	15	---	1.1	---			---
TOTAL	.48	68.70	78.6	286.4	399.1	1035.7	129.83	97.6	6.57	0	0	0
MEAN	.016	2.29	2.54	9.24	14.3	33.4	4.33	3.15	.22	0	0	0
MAX	.06	11	8.0	54	78	142	13	6.6	1.2	0	0	0
MIN	0	.08	1.3	3.0	1.9	5.5	.23	1.1	0	0	0	0
AC-FT	1.0	136	156	568	792	2050	258	194	13	0	0	0

CAL YR 1976 TOTAL 16307.20 MEAN 44.6 MAX 1680 MIN 0 AC-FT 32350
WTR YR 1977 TOTAL 2102.98 MEAN 5.76 MAX 142 MIN 0 AC-FT 4170

11461000 RUSSIAN RIVER NEAR UKIAH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-68, 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
WATER TEMPERATURES: Water years 1965-68.
SEDIMENT RECORDS: Water years 1964-68.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1964 to September 1968.
SEDIMENT RECORDS: January 1964 to September 1968.

REMARKS.--Chemical-quality samples and biological data collected 200 ft (61 m) upstream from gaging station.

COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY											
03...	1240	3.8	323	8.6	18.0	.65	10.5	109	--	430	<30
13...	1525	4.8	297	9.0	22.0	.60	12.0	138	5	230	<30
17...	1000	3.0	330	8.1	14.0	.54	8.6	84	--	150	<30
27...	1355	4.4	326	--	22.5	.50	11.1	128	7	90	90
JUN											
03...	1330	.00	348	8.1	24.5	.50	8.6	104	--	40	<30
07...	0955	.35	369	7.6	22.0	--	5.5	63	5	930	90
17...	1310	.12	363	7.8	24.0	.30	9.2	111	--	230	<30
21...	0955	.00	370	7.3	20.0	.30	3.5	39	9	230	<30
JUL											
01...	1055	.00	379	7.8	24.0	.30	7.3	88	--	1400	500
05...	1015	.00	365	7.7	18.5	.20	5.4	57	4	200	20
15...	1030	.00	357	7.3	20.0	.40	4.4	49	--	2400	340

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
03...	B7	100	1100	--	--	--	--	--	--	--
13...	B2	16	23	.21	--	--	--	--	--	--
17...	B6	29	93	--	--	--	--	--	--	--
27...	B95	84	93	<.10	--	--	--	--	--	--
JUN										
03...	15	66	460	--	--	--	--	--	--	--
07...	43	133	>2400	<.10	--	--	--	--	--	--
17...	B5	15	240	--	--	--	--	--	--	--
21...	4	95	>2400	.20	.26	.03	.01	.23	.27	.07
JUL										
01...	12	44	1300	--	--	--	--	--	--	--
05...	B5	37	200	.02	.02	.01	.00	.03	.02	.00
15...	B93	39	50	--	--	--	--	--	--	--

DATE	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)
MAY										
03...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	.30	--	--	<.33	<1.0	--	--
17...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	.40	--	--	.33	1.0	--	--
JUN										
03...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	.30	--	--	<.33	<1.0	--	--
17...	--	--	--	--	--	--	--	--	--	--
21...	.03	.03	.00	.10	.00	.33	.01	--	.02	.06
JUL										
01...	--	--	--	--	--	--	--	--	--	--
05...	.00	.07	.17	.07	.17	.10	.00	--	.01	.03
15...	--	--	--	--	--	--	--	--	--	--

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

11461000 RUSSIAN RIVER NEAR UKIAH, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L)		Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
			Dry weight	Ash weight			
May 13	1525	0.6	37.3	36.0	0.076	0.107	17110
June 7	0955	1.0	--	--	.186	.089	--
July 5	1015	.4	--	--	--	--	--

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2)		Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
June 21	40	3.40	1.93	0.000	0.097	--	Polyethylene strip

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA

LOCATION.--Lat 39°14'48", long 123°07'45", in NW¼NW¼ sec.18, T.16 N., R.11 W., Mendocino County, on left bank 0.1 mi (0.2 km) downstream from Cold Creek, and 3.9 mi (6.3 km) east of Calpella.

DRAINAGE AREA.--92.2 mi^2 (238.8 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 787.87 ft (240.143 m) above mean sea level. Prior to May 28, 1957, at site 1.3 mi (2.1 km) downstream at different datum. May 28, 1957, to Apr. 5, 1966, at site 0.4 mi (0.6 km) downstream at same datum.

REMARKS.--Records good. Flow greatly affected by diversion from Eel River through Potter Valley powerhouse (station 11471000). Diversion for irrigation of about 8,000 acres (32.4 km^2) above station.

AVERAGE DISCHARGE.--36 years, 332 ft^3/s (9.402 m^3/s), 240,500 acre-ft/yr (297 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft^3/s (530 m^3/s) Dec. 22, 1964, gage height, 20.21 ft (6.160 m) site then in use; minimum daily, 2.0 ft^3/s (0.057 m^3/s) July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 315 ft^3/s (8.92 m^3/s) Nov. 23, gage height, 6.69 ft (2.039 m), no peak above base of 3,300 ft^3/s (93 m^3/s); minimum daily, 2.0 ft^3/s (0.057 m^3/s) July 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	271	303	297	79	14	29	32	5.5	20	12	11	22
2	264	299	301	125	11	17	25	11	21	9.4	8.9	25
3	261	298	297	154	9.8	19	21	18	21	12	9.4	27
4	261	296	290	104	9.8	27	28	14	17	16	16	26
5	246	294	282	86	16	21	28	22	13	9.8	14	16
6	248	292	225	80	12	21	22	17	15	2.8	13	12
7	220	288	217	76	9.8	20	20	17	12	8.5	17	14
8	294	237	217	76	18	20	13	22	9.4	7.5	29	15
9	284	235	223	72	23	25	11	27	13	4.1	24	11
10	282	237	200	72	24	38	10	46	24	3.7	21	11
11	278	194	105	74	15	32	16	42	23	2.3	19	6.9
12	280	232	100	85	15	29	9.6	33	24	2.2	15	8.8
13	281	235	102	81	11	29	7.0	22	25	2.0	9.0	7.9
14	286	244	94	80	10	31	6.6	29	24	2.8	20	6.4
15	288	238	90	80	9.5	50	7.0	24	21	5.5	25	7.8
16	296	231	84	79	8.0	101	7.4	20	18	4.6	22	13
17	287	242	82	77	7.0	70	7.6	16	18	2.8	19	17
18	274	293	84	77	6.5	59	10	18	16	5.8	17	37
19	176	286	86	75	6.0	51	8.6	14	19	5.7	13	55
20	177	294	63	74	5.8	49	7.8	13	18	9.6	17	46
21	178	305	51	42	50	42	7.6	15	13	10	20	40
22	285	304	55	35	92	27	7.8	12	7.7	10	16	40
23	289	302	71	36	55	37	7.4	14	7.3	11	17	42
24	299	307	77	37	52	84	6.6	18	9.4	8.9	14	34
25	291	311	79	34	38	90	7.4	24	11	11	21	28
26	288	306	76	37	29	69	4.6	42	7.4	16	27	27
27	292	299	78	33	21	67	3.3	44	7.0	11	30	22
28	297	301	75	33	24	55	2.8	33	7.2	12	25	30
29	292	304	77	33	---	44	4.6	32	5.3	14	26	37
30	304	302	85	30	---	38	6.2	33	11	15	28	31
31	299	---	80	30	---	33	---	31	---	7.6	25	---
TOTAL	8368	8309	4243	2086	602.2	1324	355.9	728.5	457.7	255.6	588.3	715.8
MEAN	270	277	137	67.3	21.5	42.7	11.9	23.5	15.3	8.25	19.0	23.9
MAX	304	311	301	154	92	101	32	46	25	16	30	55
MIN	176	194	51	30	5.8	17	2.8	5.5	5.3	2.0	8.9	6.4
AC-FT	16600	16480	8420	4140	1190	2630	706	1440	908	507	1170	1420

CAL YR 1976	TOTAL	56744.0	MEAN	155	MAX	1280	MIN	32	AC-FT 112600
WTR YR 1977	TOTAL	28034.0	MEAN	76.8	MAX	311	MIN	2.0	AC-FT 55610

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 to current year.
SEDIMENT RECORDS: Water years 1964, 1967-68.
TURBIDITY: Water years 1964-71.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: March 1964 to current year.
SEDIMENT RECORDS: March to September 1964, October 1966 to September 1968.

INSTRUMENTATION.--Temperature recorder since August 1965.

REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading.

COOPERATION.--The letter "A" following a date indicates chemical-quality data furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 29.0°C Aug. 11, 1971, July 1, 1972; minimum recorded, 2.0°C Dec. 12, 1972, Dec. 21, 22, 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 27.5°C Aug. 1, 4,; minimum, 2.0°C Dec. 21, 22.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT								
01...A	1050	--	277	184	7.8	19.0	4	--
07...	1030	--	163	167	7.3	18.0	--	--
15...A	1015	--	282	175	7.7	16.0	4	--
29...A	1010	--	298	192	7.9	14.0	5	--
NOV								
12...A	1030	--	229	206	7.9	13.0	5	--
26...A	0925	--	300	197	7.8	10.0	7	--
DEC								
08...	1435	--	214	198	7.9	8.0	--	--
10...A	0935	200	--	219	8.0	6.0	8	--
23...A	0945	--	62	256	7.9	6.0	4	--
JAN								
07...A	0945	--	76	274	8.0	3.0	20	--
21...A	1020	--	46	313	8.0	6.0	4	--
FEB								
04...A	0945	--	10	367	7.8	3.0	2	--
08...	1115	--	17	303	7.9	10.0	--	10.6
18...A	1010	6.5	--	333	8.0	9.0	2	--
MAR								
04...A	0945	--	27	305	8.0	8.0	3	--
18...A	0950	--	61	285	8.1	9.0	15	--
22...	1345	--	27	278	8.1	14.5	--	11.6
APR								
01...A	0950	--	31	294	8.5	11.0	3	--
15...A	1000	7.0	--	366	8.0	16.0	2	--
29...A	0940	--	3.8	368	7.8	14.0	1	--
MAY								
13...A	1010	--	21	322	8.0	9.0	2	--
27...A	0920	--	47	325	8.1	13.0	3	--
JUN								
10...A	0920	--	23	316	8.0	18.0	2	--
21...	1315	--	10	317	8.4	23.0	--	10.8
24...A	1000	--	9.8	338	8.0	22.0	1	--
JUL								
08...A	0945	--	7.2	374	8.0	20.0	2	--
22...A	1045	--	9.0	362	8.1	23.0	2	--
AUG								
05...A	0940	--	13	316	8.0	20.0	<1	--
19...A	0930	--	13	337	8.0	19.0	3	--
SEP								
02...A	0940	--	24	337	8.0	18.0	--	--
16...A	0930	--	13	339	7.6	16.0	--	--
27...	1000	--	22	332	8.3	17.0	--	9.3
30...A	1050	--	31	226	8.0	15.0	--	--

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)
OCT											
07...	1030	--	--	.00	.00	.06	.00	.00	.01	.22	.06
DEC											
08...	1435	23	110	.05	.01	.10	.06	--	--	--	--
FEB											
08...	1115	52	370	.15	.00	.15	.15	--	--	--	--
MAR											
22...	1345	87	813	.12	.00	.13	.12	--	--	--	--
JUN											
21...	1315	77	24	.13	.00	.09	.13	--	--	--	--
SEP											
27...	1000	41	81	.16	.00	.12	.16	--	--	--	--

DATE	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
OCT										
07...	.22	.15	.07	.28	.03	--	.00	.00	3.8	.4
DEC										
08...	.24	--	--	.34	.02	.00	--	--	--	--
FEB										
08...	.21	--	--	.36	.08	.03	--	--	--	--
MAR										
22...	.42	--	--	.55	.02	.00	--	--	--	--
JUN										
21...	.33	--	--	.42	.05	.04	--	--	--	--
SEP										
27...	.22	--	--	.34	.04	.04	--	--	--	--

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

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	--	--	--	15.0	--	14.0	9.5	--	8.5	5.0	--	4.5	--	--	--	--	--	--
2	--	--	--	15.5	--	15.0	9.0	--	8.5	5.5	--	5.0	--	--	--	--	--	--
3	--	--	--	15.0	--	14.5	8.5	--	8.0	5.5	--	5.0	--	--	--	--	--	--
4	17.5	--	17.0	14.5	--	13.5	8.5	--	8.0	5.5	--	4.0	--	--	--	--	--	--
5	18.0	--	17.0	14.5	--	13.5	8.5	--	7.5	5.0	--	4.0	--	--	--	--	--	--
6	17.5	--	17.0	14.5	--	14.0	8.5	--	7.5	4.5	--	3.0	--	--	--	--	--	--
7	19.5	--	17.5	14.5	--	13.5	8.0	--	7.0	4.0	--	2.5	--	--	--	--	--	--
8	18.5	--	17.5	14.0	--	13.0	8.0	--	6.5	4.5	--	3.0	--	10.0	--	--	--	--
9	18.5	--	17.5	14.0	--	13.0	8.0	--	7.0	4.0	--	2.0	--	--	--	--	--	--
10	17.5	--	16.5	15.5	--	14.0	7.5	--	5.5	5.0	--	3.0	--	--	--	--	--	--
11	18.0	--	16.5	15.0	--	14.0	7.0	--	5.0	5.5	--	4.0	--	--	--	--	--	--
12	17.5	--	16.5	15.0	--	14.0	6.5	--	5.0	6.5	--	5.0	--	--	--	--	--	--
13	17.0	--	16.5	14.5	--	13.5	6.0	--	5.0	7.0	--	6.0	--	--	--	--	--	--
14	17.0	--	16.0	14.5	--	13.5	6.0	--	4.5	6.5	--	5.0	--	--	--	--	--	--
15	17.0	--	16.0	15.5	--	14.5	6.0	--	4.0	6.0	--	4.5	--	--	--	--	--	--
16	17.0	--	16.5	15.5	--	14.5	6.0	--	4.5	6.0	--	4.0	--	--	--	8.0	--	6.5
17	17.0	--	16.0	15.0	--	14.0	6.0	--	4.0	5.5	--	3.5	--	--	--	--	--	--
18	16.5	--	16.0	14.0	--	13.5	5.5	--	4.0	5.5	--	3.5	--	--	--	--	--	--
19	16.5	--	14.5	14.0	--	13.0	5.0	--	3.5	6.0	--	3.5	--	--	--	--	--	--
20	16.0	--	14.0	13.5	--	13.0	5.0	--	3.0	6.5	--	4.5	--	--	--	--	--	--
21	16.0	--	14.5	13.5	--	13.0	5.0	--	2.0	--	--	--	11.0	--	9.0	--	--	--
22	16.5	--	15.0	13.0	--	13.0	7.0	--	2.0	--	--	--	10.5	--	8.5	--	14.5	--
23	16.5	--	15.5	13.0	--	12.5	5.5	--	4.5	--	--	--	--	--	--	--	--	--
24	16.0	--	15.0	13.0	--	12.0	5.0	--	3.5	--	--	--	--	--	--	--	--	--
25	16.0	--	15.0	12.0	--	11.5	6.0	--	4.5	--	--	--	--	--	--	13.0	--	8.0
26	15.0	--	14.5	11.5	--	11.0	5.0	--	3.0	--	--	--	--	--	--	--	--	--
27	15.0	--	14.0	11.0	--	9.0	5.0	--	3.0	--	--	--	--	--	--	--	--	--
28	14.5	--	14.0	9.5	--	9.0	4.5	--	2.5	--	--	--	--	--	--	--	--	--
29	14.5	--	14.0	9.5	--	9.0	5.5	--	4.0	--	--	--	--	--	--	--	--	--
30	14.5	--	14.0	9.5	--	9.0	6.5	--	5.5	--	--	--	--	--	--	--	--	--
31	15.0	--	14.0	--	--	--	6.0	--	4.5	--	--	--	--	--	--	--	--	--
MONTH	19.5	--	14.0	15.5	--	9.0	9.5	--	2.0	--	--	--	--	--	--	--	--	--

DAY	APR MAX	APR DAILY	APR MIN	MAY MAX	MAY DAILY	MAY MIN	JUN MAX	JUN DAILY	JUN MIN	JUL MAX	JUL DAILY	JUL MIN	AUG MAX	AUG DAILY	AUG MIN	SEP MAX	SEP DAILY	SEP MIN
1	--	--	--	--	--	--	22.5	--	16.5	--	--	--	27.5	--	20.5	23.0	--	18.0
2	--	--	--	--	--	--	21.5	--	15.5	--	--	--	25.5	--	21.0	22.0	--	17.0
3	--	--	--	--	--	--	20.0	--	15.5	--	--	--	27.0	--	21.0	22.0	--	17.0
4	--	--	--	18.5	--	13.0	22.5	--	15.0	--	--	--	27.5	--	20.0	22.0	--	16.5
5	--	--	--	15.5	--	12.0	25.0	--	18.0	--	--	--	26.5	--	20.5	24.0	--	18.5
6	--	--	--	13.5	--	10.5	25.0	--	19.0	--	--	--	25.0	--	20.0	24.5	--	19.0
7	--	--	--	13.5	--	9.5	24.5	--	18.0	--	--	--	22.5	--	18.5	23.5	--	18.0
8	--	--	--	16.5	--	10.5	26.0	--	18.0	--	--	--	23.5	--	18.0	--	18.5	--
9	--	--	--	15.5	--	12.0	22.5	--	17.5	--	--	--	24.0	--	18.0	--	--	--
10	--	--	--	13.5	--	12.0	20.0	--	17.0	--	--	--	24.5	--	18.5	--	--	--
11	--	--	--	14.0	--	11.5	23.0	--	17.0	--	--	--	24.5	--	19.0	--	--	--
12	--	--	--	15.5	--	11.0	22.5	--	17.0	--	--	--	25.0	--	19.5	--	--	--
13	--	--	--	17.5	--	11.0	23.0	--	17.5	--	--	--	25.0	--	19.0	--	--	--
14	--	--	--	18.0	--	11.5	21.0	--	17.0	--	--	--	25.0	--	18.5	--	--	--
15	--	--	--	17.5	--	11.5	23.0	--	17.5	--	--	--	24.5	--	18.5	--	--	--
16	--	--	--	17.0	--	11.5	23.5	--	17.0	--	--	--	24.0	--	18.5	--	--	--
17	--	--	--	18.5	--	11.0	25.0	--	17.5	--	--	--	24.0	--	18.0	--	--	--
18	--	--	--	16.5	--	12.0	24.5	--	18.0	--	--	--	23.5	--	18.5	--	--	--
19	--	--	--	19.5	--	12.5	--	--	--	--	--	--	22.0	--	18.5	--	--	--
20	--	--	--	21.0	--	14.5	--	24.0	--	--	--	--	24.0	--	18.0	--	--	--
21	--	--	--	20.5	--	15.5	--	23.0	--	--	--	--	24.0	--	18.0	--	--	--
22	--	--	--	20.0	--	15.5	--	--	--	--	--	--	24.0	--	18.0	--	--	--
23	--	--	--	17.0	--	12.5	--	--	--	--	--	--	24.0	--	18.5	--	--	--
24	--	--	--	19.0	--	13.0	--	--	--	--	--	--	24.0	--	18.5	--	--	--
25	--	--	--	18.0	--	13.0	--	--	--	--	--	--	24.0	--	18.5	--	--	--
26	--	11.0	--	16.0	--	13.5	--	--	--	--	--	--	23.0	--	18.5	--	18.5	--
27	--	--	--	18.0	--	12.0	--	--	--	25.0	--	17.5	19.5	--	16.0	--	17.0	--
28	--	--	--	19.0	--	12.0	--	--	--	25.0	--	18.0	22.0	--	17.0	--	--	--
29	--	--	--	20.0	--	13.0	--	--	--	25.5	--	18.5	22.5	--	17.5	--	--	--
30	--	--	--	22.0	--	14.0	--	--	--	25.5	--	20.0	24.0	--	18.5	--	--	--
31	--	--	--	23.0	--	15.0	--	--	--	26.5	--	18.0	24.0	--	18.5	--	--	--
MONTH	--	--	--	23.0	--	9.5	--	--	--	--	--	--	27.5	--	16.0	--	--	--

11461800 LAKE MENDOCINO NEAR UKIAH, CA

LOCATION.--Lat 39°11'53", long 123°10'50", in Yokaya Grant, Mendocino County, in intake tower 30 ft (9 m) upstream from Coyote Dam on East Fork Russian River, and 3.6 mi (5.8 km) northeast of Ukiah.

DRAINAGE AREA.--105 mi^2 (272 km^2).

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 at mean sea level (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam; storage began in November 1958. Capacity based on 1975 resurvey, new capacity table put into use July 1, 1977, 122,100 acre-ft (152 hm^3) between elevations 637.0 ft (194.16 m), invert of outlet tunnel and 764.8 ft (233.11 m), spillway crest, above mean sea level. 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 hm^3) Jan. 24, 1970, elevation, 760.86 ft (231.910 m); minimum, 13,000 acre-ft (16.0 hm^3) Sept. 21-27, 1977, minimum elevation, 688.71 ft (209.919 m) Sept. 27, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 55,300 acre-ft (68.2 hm^3) Apr. 1-12; maximum elevation, 727.04 ft (221.602 m) Apr. 8; minimum contents, 13,000 acre-ft (16.0 hm^3) Sept. 21-27, minimum elevation, 688.71 ft (209.919 m) Sept. 27.

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

Oct. 1 to June 30				July 1 to Sept. 30			
637	135	685	10900	637	0	690	13800
640	250	690	13700	645	152	695	17300
645	535	695	17100	650	432	700	21200
650	900	700	21100	655	914	710	31300
655	1380	710	31620	660	1700	720	44300
660	2110	720	45000	665	2810	730	59500
665	3190	730	60100	670	4290	740	76400
670	4590	740	76900	675	6110	750	94400
675	6280	750	94600	680	8280	760	113000
680	8430	765	122900	685	10800	764.8	122100

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34300	40300	47200	49800	52900	53300	55300	52000	48100	37900	26200	16700
2	34500	40500	47500	50100	52800	53300	55300	51800	47900	37500	25700	16500
3	34700	40700	47700	50400	52800	53300	55300	51700	47700	37200	25300	16200
4	34900	40900	48000	50500	52800	53300	55300	51500	47400	36700	24900	16000
5	35200	41100	48200	50700	52800	53300	55300	51300	47200	36400	24500	15800
6	35400	41300	48400	50800	52800	53300	55300	51200	46900	36000	24100	15600
7	35600	41500	48600	50900	52700	53300	55300	51000	46600	35700	23700	15400
8	35800	41700	48700	51100	52800	53300	55300	50800	46300	35300	23300	15200
9	36000	41800	48800	51200	52800	53400	55300	50700	45900	34900	23000	14900
10	36200	42000	48800	51300	52800	53400	55300	50700	45600	34600	22600	14700
11	36400	42100	48800	51400	52800	53400	55300	50700	45400	34200	22300	14500
12	36500	42300	48800	51600	52700	53500	55300	50700	45200	33900	22000	14300
13	36700	42500	48800	51700	52700	53500	55200	50600	44900	33500	21600	14000
14	36900	42800	48800	51800	52700	53500	55200	50500	44600	33100	21300	13800
15	37100	43000	48800	51900	52700	53700	55200	50400	44400	32800	21000	13600
16	37300	43100	48800	52100	52700	53900	55200	50200	44100	32400	20700	13400
17	37500	43300	48800	52200	52700	54000	55100	50100	43800	32000	20400	13300
18	37600	43600	48800	52300	52600	54100	55100	50100	43500	31600	20100	13200
19	37600	43900	48800	52400	52600	54200	55100	49900	43300	31200	19800	13100
20	37600	44100	48800	52500	52600	54300	55000	49800	42900	30800	19600	13100
21	37600	44400	48900	52600	52800	54300	54800	49600	42600	30400	19300	13000
22	37800	44700	49000	52600	52900	54300	54600	49400	42200	30100	19000	13000
23	38100	45000	49000	52600	53100	54400	54300	49300	41800	29700	18700	13000
24	38300	45300	49100	52700	53200	54600	53900	49100	41300	29300	18500	13000
25	38600	45600	49200	52700	53200	54800	53500	48900	40900	29000	18300	13000
26	38800	45900	49200	52700	53200	54900	53200	48900	40500	28600	18000	13000
27	39100	46100	49300	52700	53200	55000	52900	48800	40100	28200	17800	13000
28	39300	46400	49400	52800	53300	55100	52800	48700	39700	27800	17500	13100
29	39600	46700	49500	52800	---	55200	52500	48600	39300	27400	17300	13100
30	39800	46900	49600	52800	---	55200	52300	48500	38900	27100	17100	13100
31	40100	---	49600	52800	---	55200	---	48400	---	26600	16900	---
MAX	40100	46900	49600	52800	53300	55200	55300	52000	48100	37900	26200	16700
MIN	34300	40300	47200	49800	52600	53300	52300	48400	38900	26600	16900	13000
(†)	716.50	721.35	723.22	725.38	725.67	726.96	725.00	722.33	715.61	705.85	694.48	688.92
(‡)	+6100	+6800	+2700	+3200	+500	+1900	-2900	-3900	-9500	-11700	-9700	-3800

CAL YR 1976 ‡ -22300
WTR YR 1977 ‡ -20400

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.
NOTE.--New capacity table put into use July 1, 1977; contents on June 30, 1977, from new table, 38,300 acre-ft. Change in contents for July 1977, calendar year 1976, and water year 1977 based on new table.

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-68, 1977.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1966-68.
SEDIMENT RECORDS: Water years 1964-68.
TURBIDITY: Water years 1964-68.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1965 to September 1968.
SEDIMENT RECORDS: February 1964 to September 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	LIGHT ATTENUATION COEFFICIENT (ALPHA/METER)
DEC							
08...	1200	.5	194	7.8	12.0	10.4	--
08...	1201	1.0	202	7.8	11.5	10.0	2.900
08...	1202	2.0	202	7.8	11.5	9.9	2.880
08...	1203	3.0	200	7.8	11.0	9.7	--
08...	1204	4.0	200	7.8	11.0	9.7	--
08...	1205	5.0	200	7.8	11.0	9.6	2.850
08...	1206	6.0	200	7.8	11.0	9.5	--
08...	1207	7.0	200	7.7	11.0	9.4	--
08...	1208	8.0	200	7.7	11.0	9.5	--
08...	1209	9.0	197	7.7	11.0	9.3	--
08...	1210	10.0	200	7.7	11.0	9.4	3.100
08...	1211	11.0	200	7.7	11.0	9.4	--
08...	1212	12.0	200	7.7	11.0	9.2	--
08...	1213	13.0	203	7.7	11.0	9.1	--
08...	1214	14.0	201	7.7	11.0	9.2	--
08...	1215	15.0	203	7.7	11.0	9.2	4.020
08...	1216	16.0	201	7.7	11.0	9.3	--
08...	1217	17.0	206	7.7	10.5	9.4	--
08...	1218	18.0	203	7.7	10.5	9.5	5.300
08...	1219	19.0	207	7.7	10.0	9.2	--
MAR							
22...	1100	.5	203	8.2	14.0	10.0	3.320
22...	1101	1.0	203	8.2	14.0	10.3	3.440
22...	1102	2.0	197	8.2	14.0	10.2	--
22...	1103	3.0	195	8.1	13.0	10.1	--
22...	1104	4.0	195	8.1	13.0	10.1	--
22...	1105	5.0	195	8.1	13.0	10.0	4.420
22...	1106	6.0	198	8.1	12.5	9.9	--
22...	1107	7.0	198	8.1	12.5	10.0	--
22...	1108	8.0	200	8.0	12.0	10.0	--
22...	1109	9.0	200	8.0	12.0	9.9	--
22...	1110	10.0	200	8.0	12.0	9.8	4.710
22...	1111	11.0	200	8.0	12.0	9.8	--
22...	1112	12.0	200	7.9	12.0	9.3	--
22...	1113	13.0	193	7.9	12.0	9.3	--
22...	1114	14.0	196	7.8	11.5	9.1	--
22...	1115	15.0	196	7.8	11.5	9.0	4.960
22...	1116	16.0	196	7.8	11.5	8.8	--
22...	1117	17.0	189	7.7	11.5	8.8	--
22...	1118	18.0	189	7.7	11.5	8.6	--
22...	1119	19.0	189	7.7	11.5	8.5	--
22...	1120	20.0	189	7.7	11.5	8.3	--
22...	1121	21.0	192	7.6	11.0	8.1	--
22...	1122	22.0	192	7.6	11.0	8.1	--
22...	1123	23.0	192	7.6	11.0	8.1	--
22...	1124	24.0	192	7.6	11.0	8.1	--
22...	1125	25.0	192	7.6	11.0	8.1	--
22...	1126	26.0	192	7.6	11.0	8.1	--
JUN							
21...	1140	.5	217	8.5	22.0	8.5	--
21...	1141	1.0	217	8.5	22.0	8.3	--
21...	1142	2.0	217	8.4	22.0	8.3	--
21...	1143	3.0	219	8.3	21.5	8.4	--
21...	1144	4.0	219	8.2	21.5	8.3	--
21...	1145	5.0	218	8.3	21.0	8.4	--
21...	1146	6.0	218	8.2	20.5	8.4	--
21...	1147	7.0	222	8.2	20.0	8.4	--
21...	1148	8.0	220	8.1	19.0	8.2	--
21...	1149	9.0	207	7.9	18.0	7.8	--
21...	1150	10.0	217	7.3	16.0	7.2	--
21...	1151	11.0	212	6.8	16.0	7.1	--
21...	1152	12.0	211	6.9	15.0	6.8	--
21...	1153	13.0	211	6.8	15.0	6.6	--
21...	1154	14.0	216	6.9	14.0	5.8	--
21...	1155	15.0	205	6.8	13.5	5.5	--
21...	1156	16.0	208	6.8	13.0	5.2	--
21...	1157	17.0	213	6.8	12.0	4.8	--
21...	1158	18.0	209	6.8	11.5	4.7	--
21...	1159	19.0	206	6.8	11.0	4.6	--
21...	1200	20.0	206	6.8	11.0	4.5	--
21...	1201	21.0	206	6.8	11.0	4.5	--
21...	1202	22.0	206	6.8	11.0	4.3	--
21...	1203	23.0	206	6.8	11.0	4.2	--

1/ To convert meters to feet, multiply by 3.281.

11461800 LAKE MENDOCINO NEAR UKIAH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	LIGHT ATTENUATION COEFFICIENT (ALPHA/METER)
SEP							
27...	1200	.5	252	7.9	20.0	7.8	--
27...	1201	1.0	251	7.9	20.0	7.9	--
27...	1202	2.0	251	7.9	20.0	7.9	--
27...	1203	3.0	251	7.9	20.0	7.9	--
27...	1204	4.0	252	7.9	20.0	7.9	--
27...	1205	5.0	252	7.9	20.0	7.9	--
27...	1206	6.0	251	7.8	20.0	7.9	--
27...	1207	7.0	251	7.8	20.0	7.6	--
27...	1208	8.0	251	7.8	20.0	7.5	--
27...	1209	9.0	251	7.8	20.0	7.5	--
27...	1210	10.0	252	7.7	20.0	7.1	--
27...	1211	11.0	253	7.7	20.0	6.9	--

DATE	TIME	SAMPLING DEPTH (METER) 1/	RESERVOIR STORAGE (AC-FT)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)
DEC							
08...	1330	1.0	48600	B2	B1	.00	.00
08...	1335	10.0	48600	<1	B6	.00	.00
08...	1340	18.0	48600	B3	B3	.01	.00
MAR							
22...	1215	1.0	54400	<1	B1	.05	.00
22...	1230	12.0	54400	<1	B4	.07	.00
22...	1240	25.0	54400	<1	B1	.11	.00
JUN							
21...	1115	1.0	42800	<1	B1	.02	.00
21...	1125	9.0	42800	<1	<1	.01	.00
21...	1135	22.0	42800	<1	B3	.12	.00
SEP							
27...	1255	1.0	13000	<1	34	.02	.00
27...	1310	6.0	13000	B1	36	.02	.00
27...	1320	11.0	13000	B2	21	.02	.00

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)
DEC							
08...	.00	.00	.00	.00	.00	.00	1.0
08...	.00	.00	.00	.00	.00	.00	1.8
08...	.01	.01	.00	.01	.00	.00	2.1
MAR							
22...	.08	.05	.50	.58	.02	.00	.5
22...	.10	.07	.57	.67	.02	.00	2.5
22...	.12	.11	.56	.68	.02	.00	3.9
JUN							
21...	.01	.02	.13	.14	.00	.00	1.3
21...	.01	.01	.14	.15	.00	.00	1.4
21...	.10	.12	.11	.21	.03	.01	6.5
SEP							
27...	.05	.02	.07	.12	.02	.01	2.7
27...	.04	.02	.06	.10	.02	.02	1.2
27...	.01	.02	.13	.14	.03	.02	2.4

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

1/ To convert meters to feet, multiply by 3.281.

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.--Lat 39°11'51", long 123°11'11", in Yokaya Grant, Mendocino County, 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 mi^2 (272 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1911 to September 1913, October 1951 to June 1956, October 1957 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 614.41 ft (187.272 m) above mean sea level. Prior to October 1951, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. October 1951 to June 1956, water-stage recorder at site 1.0 mi (1.6 km) upstream at different datum.

REMARKS.--Records good. Flow affected by diversion from Eel River through Potter Valley powerhouse (station 11471000) and since November 1958 by storage in Lake Mendocino (station 11461800) 500 ft (152 m) upstream. Diversions above station for irrigation of about 8,000 acres (32.4 km^2).

COOPERATION.--Two discharge measurements were furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE (unadjusted).--7 years (water years 1912-13, 1952-55, 1958), 356 ft^3/s (10.08 m^3/s), 257,900 acre-ft/yr (318 hm^3/yr); 18 years (water years 1960-77), 340 ft^3/s (9.629 m^3/s), 246,300 acre-ft/yr (304 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD (Prior to regulation by Lake Mendocino).--Maximum discharge, 13,300 ft^3/s (377 m^3/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 ft^3/s (48.1 m^3/s) on basis of maximum flow at station upstream which was defined to 8,600 ft^3/s (244 m^3/s); no flow Aug. 13-15, 1913.
1957 to current year: Maximum discharge, 7,350 ft^3/s (208 m^3/s) Jan. 24, 1970, gage height, 10.84 ft (3.304 m); minimum daily, 0.02 ft^3/s (0.001 m^3/s) Apr. 17, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 227 ft^3/s (6.43 m^3/s) Aug. 1-3, gage height, 2.03 ft (0.619 m); minimum daily, 9.5 ft^3/s (0.27 m^3/s) Jan. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	184	160	43	13	13	12	136	138	193	215	136
2	181	194	160	43	17	14	12	113	135	193	227	136
3	181	197	160	33	20	14	12	95	133	193	204	136
4	175	197	160	22	20	14	12	97	133	193	194	136
5	169	194	160	20	20	14	12	98	131	184	200	136
6	166	181	158	20	20	14	12	98	157	178	200	136
7	169	181	155	20	31	14	13	101	175	178	200	131
8	175	175	155	20	33	14	13	103	165	178	197	125
9	178	169	158	20	18	14	13	84	154	178	190	125
10	178	169	118	17	18	14	13	70	146	178	178	125
11	178	163	91	17	18	14	13	53	138	177	175	125
12	178	158	91	17	18	14	11	42	138	175	175	115
13	178	158	91	21	18	14	11	59	143	175	172	115
14	187	158	91	22	16	14	12	67	146	179	172	115
15	190	158	89	22	18	14	12	67	148	182	166	115
16	190	158	83	22	18	14	12	70	149	181	163	112
17	190	158	83	22	18	14	12	73	149	182	160	112
18	190	158	78	22	18	14	13	73	149	184	158	112
19	184	158	76	22	20	14	25	73	149	179	155	103
20	172	158	53	18	20	14	44	91	169	175	155	83
21	169	158	16	20	20	13	68	102	197	175	155	65
22	169	160	25	21	15	14	103	103	206	175	149	53
23	169	160	37	18	13	13	154	106	204	175	146	45
24	169	160	35	22	13	12	176	105	204	174	144	35
25	169	160	35	22	11	11	173	88	205	172	144	35
26	160	158	37	15	12	11	154	77	203	178	144	35
27	158	158	37	9.5	12	12	119	78	203	194	144	28
28	157	158	37	11	12	12	93	77	203	200	144	22
29	163	160	37	13	---	12	113	77	201	199	144	20
30	169	160	41	13	---	12	136	76	198	197	138	15
31	169	---	43	13	---	12	---	114	---	199	136	---
TOTAL	5405	5018	2750	640.5	500	413	1578	2666	4969	5673	5244	2782
MEAN	174	167	88.7	20.7	17.9	13.3	52.6	86.0	166	183	169	92.7
MAX	190	197	160	43	33	14	176	136	206	200	227	136
MIN	157	158	16	9.5	11	11	11	42	131	172	136	15
AC-FT	10720	9950	5450	1270	992	819	3130	5290	9860	11250	10400	5520

CAL YR 1976 TOTAL 68957.0 MEAN 188 MAX 2310 MIN 16 AC-FT 136800
WTR YR 1977 TOTAL 37638.5 MEAN 103 MAX 227 MIN 9.5 AC-FT 74660

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.
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.--The letter "A" following a date indicates chemical-quality data furnished by Corps of Engineers and "B" following a date indicates chemical-quality samples were collected by California Regional Water Quality Control Board, North Coast Region.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (water years 1973-74, 1976-77): Maximum, 23.5°C on several days in 1977; minimum, 7.0°C Jan. 14, 1973.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 23.5°C on several days during August; minimum, 7.5°C on several days during January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT									
01...A	1105	178	175	7.7	20.0	7	--	--	--
05...B	1300	169	185	--	19.0	--	9.0	9.7	--
07...	1445	175	170	6.9	19.0	--	--	--	--
15...A	1035	190	183	7.7	19.0	--	--	--	--
29...A	1030	157	189	7.8	16.0	4	--	--	--
NOV									
12...A	1050	157	182	7.8	15.0	4	--	--	--
26...A	0945	157	186	7.9	13.0	4	--	--	--
DEC									
08...	1550	155	182	7.1	11.0	--	--	10.9	99
10...A	0955	91	195	8.0	13.0	5	--	--	--
23...A	1000	37	200	7.8	9.0	4	--	--	--
JAN									
07...A	1040	20	218	8.1	8.0	10	--	--	--
21...A	1045	24	224	8.2	8.0	7	--	--	--
FEB									
04...A	1015	20	219	7.9	8.0	5	--	--	--
08...	1200	42	203	7.8	8.5	--	--	11.7	100
18...A	1030	18	212	8.0	9.0	5	--	--	--
MAR									
04...A	1025	14	200	8.1	9.0	6	--	--	--
18...A	1040	14	206	8.0	10.0	7	--	--	--
22...	1400	14	182	7.8	12.5	--	--	11.6	--
APR									
01...A	1035	12	192	8.5	11.0	6	--	--	--
13...B	1010	11	220	--	14.5	--	7.0	12.5	--
15...A	1055	12	198	8.0	12.0	6	--	--	--
29...A	1000	102	203	7.8	11.0	4	--	--	--
MAY									
03...B	1110	88	200	8.4	10.0	--	3.6	10.9	97
13...A	1030	71	215	7.8	11.0	4	--	--	--
13...B	1415	71	207	8.1	11.0	--	4.8	10.8	99
17...B	1100	73	206	8.0	10.5	--	4.7	10.9	97
27...A	0945	78	208	8.0	11.0	3	--	--	--
27...B	1315	78	208	--	11.0	--	4.2	10.9	100
JUN									
03...B	1240	133	209	7.9	11.5	--	4.1	10.6	99
07...B	1055	175	207	7.4	11.5	--	4.5	10.5	98
10...A	0945	150	221	8.0	12.0	3	--	--	--
17...B	1225	149	213	7.8	12.0	--	4.7	9.9	93
21...B	1055	206	209	7.6	13.0	--	5.1	10.1	97
21...	1415	206	234	8.5	13.0	--	--	9.9	--
24...A	1030	203	243	7.5	16.0	4	--	--	--
JUL									
01...B	1145	194	193	8.0	14.0	--	5.8	9.6	94
05...B	1145	178	218	8.1	15.0	--	6.7	9.6	96
08...A	1010	178	215	7.6	15.0	6	--	--	--
15...B	1125	184	216	7.7	17.0	--	4.8	9.2	96
19...B	1015	175	217	7.7	18.0	--	5.0	9.0	96
22...A	1115	175	212	--	18.0	8	--	--	--
29...B	1120	197	226	7.9	19.0	--	4.6	8.7	95
AUG									
02...B	1025	227	217	7.8	22.0	--	3.9	8.5	98
05...A	1025	194	235	7.6	22.0	7	--	--	--
11...B	1330	175	239	7.7	23.0	--	3.6	7.8	92
16...B	0955	163	243	7.7	23.0	--	5.1	7.8	92
19...A	0950	155	244	7.6	23.0	4	--	--	--
23...B	1020	146	234	7.7	23.5	--	3.4	7.7	91

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
SEP									
01...B	1355	136	248	7.9	23.0	--	4.3	7.9	93
02...A	1040	136	250	7.7	18.0	--	--	--	--
08...B	1150	125	259	7.8	23.0	--	--	7.7	91
13...B	0945	112	239	8.2	23.0	--	2.6	8.2	96
16...A	0955	112	250	7.7	21.0	--	--	--	--
22...B	1205	53	259	7.9	20.5	--	15	8.6	95
26...B	1120	33	271	7.9	20.5	--	6.4	8.6	96
27...B	1100	25	258	7.8	20.0	--	--	8.6	--
30...A	1110	17	248	7.9	20.0	--	--	--	--

DATE	TIME	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
OCT										
05...B	1300	--	230	<30	--	--	210	90	<.10	--
07...	1445	--	--	--	--	--	--	--	--	.02
DEC										
08...	1550	--	--	--	B7	30	--	--	--	.01
FEB										
08...	1200	--	--	--	B1	70	--	--	--	.08
18...B	--	--	<30	<30	--	--	<3	--	--	--
25...B	--	--	--	--	--	--	<3	--	--	--
MAR										
22...	1400	--	--	--	<1	B10	--	--	--	.09
APR										
04...B	--	--	230	<30	--	--	4	--	--	--
13...B	1010	--	<30	<30	--	--	<3	--	.12	--
MAY										
03...B	1110	--	40	<30	B2	B5	<3	--	--	--
13...B	1415	7	40	<30	B1	B3	<3	--	.24	--
17...B	1100	--	<30	<30	<1	B1	<3	--	--	--
27...B	1315	3	<30	<30	<1	B1	<3	--	.17	--
JUN										
03...B	1240	--	40	<30	B1	B3	3	--	--	--
07...B	1055	6	90	<30	<1	B2	4	--	.13	--
17...B	1225	--	30	<30	<1	B1	<3	--	--	--
21...B	1055	10	<30	<30	B1	B3	28	--	.06	.08
21...	1415	--	--	--	B1	B5	--	--	--	.08
JUL										
01...B	1145	--	900	20	<1	10	<20	--	--	--
05...B	1145	6	1500	200	<1	B3	200	--	.04	.02
15...B	1125	--	<20	<20	B1	<1	<20	--	--	--
19...B	1015	0	50	20	<1	B1	11	--	.03	.02
29...B	1120	--	26	<2	<1	B4	11	--	--	--
AUG										
02...B	1025	7	140	<2	1	7	49	--	.01	.05
11...B	1330	--	110	7	<1	B5	22	--	--	--
16...B	0955	11	17	<2	B2	19	2	--	.01	.02
23...B	1020	--	17	<2	<1	13	350	--	--	--
SEP										
01...B	1355	8	79	2	<1	B3	38	--	.00	.01
08...B	1150	--	4	<2	<1	8	140	--	--	--
13...B	0945	8	140	13	B3	16	2	--	.01	.01
22...B	1205	--	540	26	26	B92	1600	--	--	--
26...B	1120	17	330	20	B2	21	17	--	.01	.01
27...B	1100	--	--	--	B7	20	--	--	--	.02

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

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT									
05...	--	--	--	--	--	--	--	--	<.10
07...	--	.00	.08	.02	.01	.05	.20	.19	.21
DEC									
08...	--	.01	.03	.02	--	--	--	--	.00
FEB									
08...	--	.00	.08	.08	--	--	--	--	.15
18...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
MAR									
22...	--	.00	.08	.09	--	--	--	--	.39
APR									
04...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	<.10
MAY									
03...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	.30
17...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	.20
JUN									
03...	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	<.20
17...	--	--	--	--	--	--	--	--	--
21...	.01	.00	.07	.08	.02	.02	.09	.05	.11
21...	--	.00	.06	.08	--	--	--	--	.14
JUL									
01...	--	--	--	--	--	--	--	--	--
05...	.00	.00	.04	.02	.00	.00	.03	.06	.03
15...	--	--	--	--	--	--	--	--	--
19...	.00	.00	.03	.02	.00	.02	--	.05	--
29...	--	--	--	--	--	--	--	--	--
AUG									
02...	.00	.00	.01	.05	.01	.02	.14	.06	.15
11...	--	--	--	--	--	--	--	--	--
16...	.00	.00	.01	.02	.03	.05	.24	.15	.27
23...	--	--	--	--	--	--	--	--	--
SEP									
01...	.01	.00	.01	.01	.01	.02	.17	.00	.18
08...	--	--	--	--	--	--	--	--	--
13...	.00	.00	.01	.01	.01	.01	.04	.02	.05
22...	--	--	--	--	--	--	--	--	--
26...	.00	.00	.01	.01	.01	.00	.04	.05	.05
27...	--	.00	.01	.02	--	--	--	--	.22

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
OCT									
05...	--	--	--	.18	--	--	--	--	--
07...	.00	.24	.29	.02	--	.01	.03	1.7	.3
DEC									
08...	--	--	.03	.02	.00	--	--	--	--
FEB									
08...	--	--	.23	.03	.02	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
MAR									
22...	--	--	.47	.02	.00	--	--	--	--
APR									
04...	--	--	--	--	--	--	--	--	--
13...	--	--	--	<.33	--	--	--	--	--
MAY									
03...	--	--	--	--	--	--	--	--	--
13...	--	--	--	<.33	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
27...	--	--	--	<.33	--	--	--	--	--
JUN									
03...	--	--	--	--	--	--	--	--	--
07...	--	--	--	<.33	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
21...	--	.07	.18	.04	--	.01	.03	--	--
21...	--	--	.20	.02	.01	--	--	--	--
JUL									
01...	--	--	--	--	--	--	--	--	--
05...	--	.06	.07	.02	--	.01	.03	--	--
15...	--	--	--	--	--	--	--	--	--
19...	--	.07	--	.03	--	.01	.03	--	--
29...	--	--	--	--	--	--	--	--	--
AUG									
02...	--	.08	.16	.00	--	.01	.03	--	--
11...	--	--	--	--	--	--	--	--	--
16...	--	.20	.28	.03	--	.01	.03	--	--
23...	--	--	--	--	--	--	--	--	--
SEP									
01...	--	.02	.19	.02	--	.01	.03	--	--
08...	--	--	--	--	--	--	--	--	--
13...	--	.03	.06	.01	--	.01	.03	--	--
22...	--	--	--	--	--	--	--	--	--
26...	--	.05	.06	.04	--	.01	.03	--	--
27...	--	--	.23	.03	.02	--	--	--	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 13	1415	7.4	38.0	37.3	0.011	0.000	63640
June 7	1055	3.5	--	--	.092	.011	--
July 5	1145	.4	--	--	--	--	--
Aug. 2	1025	.3	60.0	59.0	.037	.008	27030
Sept. 1	1355	.5	--	--	.051	.018	--
Sept. 26	1120	.6	72.3	71.0	.995	.075	1307

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
June 21	40	8.32	5.00	0.269	0.035	12330	Polyethylene strip
Sept. 8	29	5.51	4.02	.300	.011	4967	Polyethylene strip

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.0	10.5	10.5	11.0	11.0	14.5	14.0	20.0	20.0	23.0	23.0
2	10.0	9.5	10.5	10.5	11.5	11.0	14.5	14.0	20.5	20.0	23.0	23.0
3	10.5	9.5	10.5	10.5	11.5	11.5	14.5	14.5	20.5	20.5	23.0	23.0
4	10.5	9.5	10.5	10.5	11.5	11.5	14.5	14.5	21.0	20.5	23.0	23.0
5	10.5	9.5	10.5	10.5	11.5	11.5	15.0	14.5	21.5	21.0	23.0	23.0
6	10.5	9.5	10.5	10.5	11.5	11.5	15.0	15.0	21.5	21.0	23.0	23.0
7	10.5	9.5	10.5	10.5	11.5	11.5	15.0	15.0	22.0	21.5	23.0	23.0
8	10.0	9.5	10.5	10.5	11.5	11.5	15.5	15.0	22.0	22.0	23.0	22.5
9	10.5	9.5	10.5	10.5	12.0	11.5	15.5	15.0	22.5	22.0	---	---
10	10.5	9.5	10.5	10.5	12.5	11.5	15.5	15.5	22.5	22.0	---	---
11	10.5	9.5	10.5	10.5	12.0	12.0	16.0	15.5	23.0	22.5	---	---
12	11.0	10.0	11.0	10.5	12.0	11.5	16.0	15.5	23.0	22.5	---	---
13	11.0	10.0	10.5	10.5	12.0	12.0	16.0	16.0	23.0	22.5	---	---
14	11.0	10.0	11.0	10.5	12.0	12.0	16.5	16.0	23.0	22.5	---	---
15	11.0	10.0	10.5	10.5	12.5	12.0	16.5	16.0	23.0	23.0	---	---
16	11.0	10.0	11.0	10.5	12.5	12.0	16.5	16.0	23.5	23.0	---	---
17	11.0	10.0	11.0	11.0	12.5	12.5	17.0	16.5	23.5	23.0	---	---
18	11.0	10.0	11.0	11.0	12.5	12.5	17.0	16.5	23.5	23.0	---	---
19	10.5	10.0	11.0	11.0	12.5	12.5	17.0	16.5	23.0	23.0	---	---
20	10.5	10.0	11.0	11.0	13.0	12.5	17.5	17.0	23.5	23.0	---	---
21	10.0	10.0	11.0	11.0	13.0	12.5	17.5	17.0	23.0	23.0	---	---
22	10.5	10.5	11.0	11.0	13.0	13.0	17.5	17.5	23.0	23.0	---	---
23	10.5	10.5	11.0	11.0	13.5	13.0	18.0	17.5	23.5	23.0	---	---
24	10.5	10.5	11.0	11.0	13.5	13.0	18.0	17.5	23.5	23.0	---	---
25	10.5	10.5	11.0	11.0	13.5	13.0	18.0	18.0	23.5	23.5	---	---
26	10.5	10.5	11.0	11.0	13.5	13.0	18.5	18.0	23.5	23.5	---	---
27	10.5	10.5	11.0	11.0	14.0	13.5	19.0	18.5	23.5	23.0	---	---
28	10.5	10.5	11.0	11.0	14.0	13.5	19.0	18.5	23.5	23.0	---	---
29	10.5	10.5	11.0	11.0	14.0	13.5	19.0	19.0	23.0	23.0	---	---
30	10.5	10.5	11.0	11.0	14.0	14.0	19.5	19.5	23.0	23.0	---	---
31	---	---	11.0	11.0	---	---	20.0	19.5	23.0	23.0	---	---
MONTH	11.0	9.0	11.0	10.5	14.0	11.0	20.0	14.0	23.5	20.0	---	---

11462500 RUSSIAN RIVER NEAR HOPLAND, CA

LOCATION.--Lat 39°01'36", long 123°07'46", in Rancho de Sanel Grant, Mendocino County, on right bank at abandoned highway bridge, 0.2 mi (0.3 km) downstream from McNab Creek, 4 mi (6 km) north of Hopland.

DRAINAGE AREA.--362 mi^2 (938 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1041: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 497.61 ft (151.672 m) above mean sea level. 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 km^2) 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.

COOPERATION.--Nine discharge measurements were furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE.--38 years, 710 ft^3/s (20.11 m^3/s), 514,400 acre-ft/yr (634 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft^3/s (1,270 m^3/s) Dec. 22, 1955, gage height, 27.00 ft (8.230 m); minimum daily, 9.1 ft^3/s (0.26 m^3/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, 225 ft^3/s (6.37 m^3/s) Mar. 16, gage height, 5.31 ft (1.618 m); minimum daily, 9.1 ft^3/s (0.26 m^3/s) Apr. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	150	156	45	21	31	37	103	94	149	133	108
2	173	166	156	71	20	29	37	105	95	146	145	108
3	173	167	156	93	19	28	34	88	95	148	150	105
4	173	168	156	87	18	24	31	82	95	150	136	105
5	170	170	156	61	17	22	31	82	95	147	136	105
6	167	167	156	48	17	22	27	75	103	135	137	105
7	166	165	156	42	17	22	27	76	131	133	140	104
8	162	165	156	39	26	22	25	83	132	133	143	99
9	162	159	156	37	32	22	25	87	126	133	144	96
10	162	159	148	35	24	26	23	80	118	130	138	95
11	162	165	111	34	20	29	23	76	110	132	128	95
12	162	153	103	32	19	29	23	64	108	133	124	94
13	162	153	100	31	16	30	20	56	108	133	124	87
14	163	162	98	31	15	32	18	60	109	133	124	87
15	168	162	94	31	15	50	17	63	110	138	121	87
16	170	159	84	31	15	191	15	63	110	139	121	87
17	170	156	87	31	15	133	15	68	112	139	119	87
18	172	156	87	31	15	100	14	70	113	138	119	87
19	172	156	87	31	14	84	11	70	113	139	119	110
20	164	156	82	31	14	73	9.1	70	117	136	119	90
21	153	156	57	29	35	65	13	82	136	133	118	80
22	153	156	38	29	97	59	22	85	154	130	113	63
23	153	156	36	29	67	54	51	85	158	127	110	54
24	153	156	39	27	66	80	100	86	159	124	110	43
25	150	156	39	27	56	157	160	86	159	121	111	35
26	150	156	39	27	43	96	142	77	164	115	115	34
27	147	156	39	26	38	73	118	73	166	118	116	32
28	144	156	39	23	34	59	83	73	160	129	116	31
29	144	156	39	22	---	47	77	73	156	130	116	30
30	147	156	45	22	---	43	96	73	155	130	115	24
31	147	---	45	21	---	39	---	74	---	132	111	---
TOTAL	4985	4774	2940	1154	805	1771	1324.1	2388	3761	4153	3871	2367
MEAN	161	159	94.8	37.2	28.8	57.1	44.1	77.0	125	134	125	78.9
MAX	173	170	156	93	97	191	160	105	166	150	150	110
MIN	144	150	36	21	14	22	9.1	56	94	115	110	24
AC-FT	9890	9470	5830	2290	1600	3510	2630	4740	7460	8240	7680	4690

CAL YR 1976 TOTAL 86147.0 MEAN 235 MAX 2780 MIN 36 AC-FT 170900
WTR YR 1977 TOTAL 34293.1 MEAN 94.0 MAX 191 MIN 9.1 AC-FT 68020

11462500 RUSSIAN RIVER NEAR HOPLAND, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL ANALYSES: Water years 1951-66.
WATER TEMPERATURES: Water years 1965 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: September 1965 to current year.

INSTRUMENTATION.--Temperature recorder since September 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 27.0°C Sept. 5, 6, 1977; minimum recorded, 5.0°C Feb. 2, Dec. 16, 1972, Jan. 31 to Feb. 2, 1975.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C Sept. 5, 6; minimum, 6.5°C Jan. 7.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	18.0	17.0	15.0	12.0	10.5	9.0	8.5	12.5	9.5	14.0	10.0
2	19.0	18.0	16.5	15.5	12.0	10.5	9.5	8.5	11.5	8.5	13.0	10.0
3	20.0	17.5	16.0	14.5	11.5	10.5	10.0	8.5	11.5	9.0	14.5	11.5
4	20.0	18.0	16.0	14.5	12.0	10.5	9.0	7.0	11.5	9.0	15.0	10.0
5	20.5	18.0	15.5	14.5	11.5	10.0	8.5	7.0	11.5	9.0	15.0	10.5
6	20.5	18.0	16.0	14.5	11.5	10.0	8.5	7.0	14.0	11.5	14.5	11.0
7	21.0	18.5	15.5	14.5	11.5	10.0	8.5	6.5	13.0	11.0	13.5	12.5
8	20.0	18.0	14.5	13.5	11.0	9.5	9.5	7.0	13.0	12.0	16.0	12.5
9	20.0	17.5	15.0	14.0	11.0	10.0	9.0	7.0	14.0	12.5	16.0	12.5
10	19.5	17.0	16.5	14.5	10.5	9.0	10.0	7.5	14.0	11.5	15.0	10.5
11	19.5	17.0	15.5	15.0	11.0	8.5	10.5	8.5	14.0	11.0	15.5	11.0
12	19.5	17.0	15.5	14.0	10.0	8.0	11.0	10.0	15.0	12.0	15.0	12.5
13	19.5	17.0	14.5	14.0	10.0	8.0	11.5	10.0	14.5	12.0	13.5	10.5
14	19.0	17.0	15.0	14.0	10.0	8.0	11.0	9.0	15.0	12.0	13.0	10.0
15	18.5	16.5	16.5	15.0	10.0	8.0	11.0	9.0	14.5	12.0	11.5	10.0
16	19.0	17.0	17.0	15.0	10.0	8.0	11.0	8.5	14.5	12.0	10.0	8.0
17	18.0	16.5	16.5	15.0	10.0	7.5	10.5	8.0	14.5	12.0	13.0	8.5
18	18.0	16.0	16.0	14.0	9.5	7.5	10.5	7.5	14.5	11.5	13.0	9.5
19	18.0	16.0	15.5	14.0	9.0	7.5	10.5	7.5	14.5	11.5	15.5	10.5
20	17.5	15.5	15.0	14.0	9.0	7.5	11.0	8.5	14.0	12.0	16.0	11.0
21	18.0	15.5	15.5	14.0	9.0	7.5	11.5	9.5	13.5	12.0	17.0	12.0
22	18.0	16.0	15.0	14.0	9.5	8.0	12.0	9.5	12.5	10.5	18.0	13.0
23	18.0	16.0	15.0	13.5	10.0	8.5	12.0	10.0	12.0	10.5	15.5	13.5
24	17.0	15.5	14.5	13.0	9.0	7.5	11.5	9.0	13.0	10.0	14.0	11.5
25	17.5	15.5	14.0	12.5	10.0	8.5	11.5	8.5	13.0	9.5	13.5	10.0
26	17.0	15.0	14.0	11.5	9.0	7.5	11.0	8.0	13.5	10.0	16.0	10.5
27	16.5	14.0	12.5	11.0	9.5	7.5	11.5	8.0	15.0	10.5	16.5	11.5
28	16.5	14.0	12.0	10.5	9.0	7.5	11.5	8.0	14.0	11.5	15.5	11.0
29	16.0	14.0	12.0	10.5	10.0	8.5	11.5	8.5	---	---	15.5	11.0
30	16.5	14.5	12.0	10.5	10.5	9.5	11.0	9.0	---	---	15.0	11.0
31	16.5	14.5	---	---	10.0	8.5	12.5	10.0	---	---	17.0	11.0
MONTH	21.0	14.0	17.0	10.5	12.0	7.5	12.5	6.5	15.0	8.5	18.0	8.0

11462500 RUSSIAN RIVER NEAR HOPLAND, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

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, on left bank 0.3 mi (0.5 km) downstream from Cummisky Creek, and 5.5 mi (8.8 km) northwest of Cloverdale.

DRAINAGE AREA.--503 mi^2 (1,303 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 350 ft (107 m), from topographic map. Prior to July 30, 1970, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good. Diversions for irrigation of about 15,300 acres (61.9 km^2) 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.

COOPERATION.--Eight discharge measurements were furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE.--26 years, 963 ft^3/s (27.27 m^3/s), 697,700 acre-ft/yr (860 hm^3/yr). The figure published in the 1976 report was in error; the correct figure is 25 years, 998 ft^3/s (28.26 m^3/s), 723,100 acre-ft/yr (892 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft^3/s (1,560 m^3/s) Dec. 22, 1964, gage height, 31.60 ft (9.632 m) site and datum then in use; minimum daily, 12 ft^3/s (0.34 m^3/s) Apr. 22, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 370 ft^3/s (10.5 m^3/s) Mar. 16, gage height, 3.42 ft (1.042 m); minimum daily, 12 ft^3/s (0.34 m^3/s) Apr. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	158	160	56	26	52	59	112	78	139	123	103
2	174	176	160	142	25	48	55	120	91	132	132	101
3	174	182	163	150	24	46	49	106	90	139	145	101
4	176	183	165	124	23	42	46	89	88	149	132	99
5	166	184	166	93	22	38	40	90	91	146	131	95
6	164	180	166	72	22	36	40	79	90	125	133	92
7	160	174	166	62	21	35	38	73	107	116	140	90
8	158	174	166	56	30	35	36	87	123	114	147	80
9	162	168	166	52	45	34	36	103	119	110	144	74
10	162	166	164	49	36	33	33	97	108	114	140	69
11	162	186	128	46	29	41	35	85	101	119	130	70
12	160	172	113	45	25	43	34	76	95	115	120	73
13	158	162	108	44	21	43	28	62	98	115	118	69
14	156	185	104	43	20	45	25	59	99	115	118	67
15	166	182	103	43	20	185	21	63	103	122	120	68
16	176	168	96	43	20	323	20	62	103	122	119	70
17	180	164	97	43	20	255	17	63	103	124	117	82
18	178	164	97	42	19	189	17	67	103	128	112	83
19	176	164	94	41	18	146	16	69	99	127	110	119
20	168	162	90	41	18	119	15	66	102	122	106	100
21	158	162	79	40	78	100	13	75	113	116	108	82
22	155	162	59	38	137	87	12	86	131	113	106	69
23	155	162	47	37	137	78	27	90	139	107	101	56
24	156	160	49	36	119	82	80	93	136	105	99	47
25	156	160	50	36	96	241	124	93	139	110	103	41
26	158	162	50	36	77	176	127	86	148	104	109	36
27	151	160	50	37	63	130	117	76	154	107	110	31
28	147	160	49	33	56	107	95	72	143	119	111	35
29	147	160	48	30	---	87	76	69	138	123	114	39
30	155	160	57	28	---	74	89	69	137	119	114	33
31	156	---	55	27	---	63	---	66	---	115	108	---
TOTAL	5034	5062	3265	1665	1247	3013	1420	2503	3369	3731	3720	2174
MEAN	162	169	105	53.7	44.5	97.2	47.3	80.7	112	120	120	72.5
MAX	180	186	166	150	137	323	127	120	154	149	147	119
MIN	147	158	47	27	18	33	12	59	78	104	99	31
AC-FT	9980	10040	6480	3300	2470	5980	2820	4960	6680	7400	7380	4310

CAL YR 1976	TOTAL	96632	MEAN 264	MAX 3170	MIN 47	AC-FT	191700	
WTR YR 1977	TOTAL	36203	MEAN 99.2	MAX 323	MIN 12	AC-FT	71810	

11463000 RUSSIAN RIVER NEAR CLOVERDALE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-69, 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
WATER TEMPERATURES: Water years 1964-69.
SEDIMENT RECORDS: Water years 1964-68.
TURBIDITY: Water years 1964-68.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1963 to September 1969.
SEDIMENT RECORDS: November 1963 to September 1966, January 1967 to September 1968.

REMARKS.--Chemical-quality samples and biological data collected 0.2 mi (0.3 km) upstream from gaging station.

COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY											
04...	1130	90	262	8.4	15.0	2.4	10.3	102	--	930	110
13...	0925	64	278	8.3	14.0	3.0	9.6	94	6	43	<30
18...	0925	65	280	8.3	15.0	3.7	9.4	94	--	230	90
26...	1430	86	262	--	16.5	2.5	10.5	107	9	230	40
JUN											
02...	1420	96	251	8.5	20.0	3.0	10.4	116	--	230	40
08...	0845	123	242	8.0	20.0	4.8	8.2	91	4	2400	150
16...	1420	108	245	8.5	21.0	2.1	10.1	115	--	750	40
22...	0900	132	236	8.2	21.5	3.2	8.2	94	8	11000	40
30...	1300	139	235	8.5	21.0	2.8	9.7	110	--	90	<20
JUL											
06...	1030	124	237	8.3	19.0	2.8	9.3	101	17	3300	900
14...	1115	117	242	8.2	20.5	2.7	9.2	102	--	7	<2
19...	1445	129	234	8.2	24.5	1.8	9.6	116	25	790	70
28...	1345	123	240	8.4	23.0	2.4	9.8	115	--	1600	26
AUG											
03...	0900	145	234	8.0	22.0	2.1	8.2	94	6	540	79
11...	0900	129	246	8.1	21.5	1.4	7.8	90	--	540	240
16...	1340	120	251	8.5	23.0	1.0	9.8	115	11	920	23
23...	1420	103	242	8.4	24.5	.90	9.6	114	--	79	13
SEP											
01...	0930	104	266	8.2	20.0	.90	8.2	91	8	540	22
08...	0835	82	271	8.1	21.0	1.3	7.6	86	--	920	46
13...	1315	71	267	8.4	20.5	.50	10.1	112	6	920	46
22...	0855	73	271	8.1	18.5	1.0	8.3	90	--	350	49
27...	1050	31	296	8.2	19.0	.80	8.6	93	11	1300	50

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
04...	82	28	23	--	--	--	--	--	--	--
13...	50	43	39	.31	--	--	--	--	--	--
18...	67	62	150	--	--	--	--	--	--	--
26...	33	42	93	.24	--	--	--	--	--	--
JUN										
02...	42	20	93	--	--	--	--	--	--	--
08...	85	150	29	.12	--	--	--	--	--	--
16...	70	42	11	--	--	--	--	--	--	--
22...	--	140	93	.07	.09	.01	.00	.08	.09	.02
30...	30	36	20	--	--	--	--	--	--	--
JUL										
06...	34	42	200	.03	.04	.00	.00	.03	.04	.01
14...	34	36	<2	--	--	--	--	--	--	--
19...	20	29	<2	.04	.03	.00	.00	.04	.03	.00
28...	26	37	27	--	--	--	--	--	--	--
AUG										
03...	60	190	79	.01	.03	.00	.01	.01	.04	.00
11...	58	59	110	--	--	--	--	--	--	--
16...	76	33	7	.01	.01	.00	.00	.01	.01	.00
23...	88	73	220	--	--	--	--	--	--	--
SEP										
01...	27	48	170	.04	.02	.01	.00	.05	.02	.00
08...	51	70	70	--	--	--	--	--	--	--
13...	22	15	79	.05	.01	.01	.00	.06	.01	.00
22...	58	79	140	--	--	--	--	--	--	--
27...	22	40	11	.14	.16	.00	.00	.14	.16	.01

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

11463000 RUSSIAN RIVER NEAR CLOVERDALE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
MAY										
04...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	.30	--	--	<.33	<1.0	--	--
18...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	<.20	--	--	<.33	<1.0	--	--
JUN										
02...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	<.20	--	--	<.33	<1.0	--	--
16...	--	--	--	--	--	--	--	--	--	--
22...	.02	.34	.19	.36	.21	.44	.02	--	.01	.03
30...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	.00	.07	.08	.08	.08	.11	.00	--	.01	.03
14...	--	--	--	--	--	--	--	--	--	--
19...	.03	.10	.12	.10	.15	.14	.02	--	.01	.03
28...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	.00	.11	.39	.11	.39	.12	.02	--	.10	.31
11...	--	--	--	--	--	--	--	--	--	--
16...	.01	.12	.31	.12	.32	.13	.01	--	.01	.03
23...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	.01	.13	.10	.13	.11	.18	.00	--	.00	.00
08...	--	--	--	--	--	--	--	--	--	--
13...	.01	.02	.01	.02	.02	.08	.00	--	.01	.03
22...	--	--	--	--	--	--	--	--	--	--
27...	.00	.30	.02	.31	.02	.45	.02	--	.00	.00

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 13	0925	3.3	61.5	58.5	0.154	0.032	19480
June 8	0845	1.0	--	--	.066	.015	--
July 6	1030	.4	61.5	60.0	.175	.051	8571
Aug. 3	0900	.8	58.0	56.5	.057	.016	26320
Sept. 1	0930	.4	56.5	54.5	.246	.011	8130
Sept. 27	1050	.4	33.3	32.7	.411	.063	1460

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
June 2	21	10.7	7.84	0.313	--	9137	Polyethylene strip
Sept. 8	29	29.6	19.8	.662	0.011	14800	Polyethylene strip

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, on right bank 0.5 mi (0.8 km) downstream from Redwood Creek, and 4.4 mi (7.1 km) west of Kellogg.

DRAINAGE AREA.--43.4 mi^2 (112.4 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximum, water years 1958-60, December 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 188.91 ft (57.580 m) above mean sea level. Prior to Dec. 20, 1960, crest-stage gage only at site 700 ft (213 m) upstream at different datum.

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

COOPERATION.--Seven discharge measurements were furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE.--16 years (water years 1962-77), 81.4 ft^3/s (2.305 m^3/s), 58,970 acre-ft/yr (72.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,920 ft^3/s (253 m^3/s) Dec. 22, 1964, gage height, 17.56 ft (5.352 m); no flow for many days in 1964, 1968, 1976-77.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 194 ft^3/s (5.49 m^3/s) Jan. 2, gage height, 4.68 ft (1.426 m), no peak above base of 2,000 ft^3/s (57 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	.14	1.0	2.9	1.8	3.9	4.2	3.7	1.3	.01		0
2	.60	.16	1.0	55	1.8	3.5	4.1	4.2	1.1	.01		0
3	.53	.22	1.0	28	1.7	3.4	4.1	2.8	1.0	.01		0
4	.46	.34	1.1	8.8	1.7	3.1	4.0	2.4	.89	0		0
5	.39	.33	1.0	5.4	1.7	3.1	4.0	2.1	.78	0		0
6	.33	.36	1.0	4.0	1.7	3.0	3.6	2.0	.68	0		0
7	.31	.42	1.0	3.4	1.7	2.9	3.8	2.1	.37	0		0
8	.28	.53	1.0	3.0	6.9	3.0	4.1	2.0	.12	0		0
9	.28	.60	1.0	2.8	8.8	3.4	4.4	3.0	.10	0		0
10	.28	.90	1.0	2.7	4.9	3.3	4.1	3.5	.14	0		0
11	.26	2.9	1.0	2.6	3.7	3.0	3.9	3.8	.36	0		0
12	.24	3.1	1.0	3.3	3.1	3.0	3.6	4.1	.27	0		0
13	.20	2.2	1.1	2.9	2.7	3.0	3.3	3.4	.11	0		0
14	.16	7.6	1.1	2.7	2.5	2.9	3.2	2.9	.08	0		0
15	.16	6.2	1.1	2.6	2.4	21	3.1	2.5	.06	0		0
16	.20	2.7	1.3	2.5	2.3	58	2.9	2.2	.12	0		0
17	.20	1.7	1.5	2.4	2.1	22	2.7	2.1	.06	0		0
18	.26	1.4	1.2	2.4	2.0	16	2.3	2.1	.06	0		0
19	.28	1.2	1.0	2.7	1.9	13	2.0	2.6	.04	0		0
20	.28	1.0	1.0	2.7	2.1	10	1.8	2.2	.04	0		0
21	.28	1.0	1.0	2.6	20	7.2	1.6	1.9	.04	0		0
22	.31	1.0	1.0	2.1	17	5.7	1.3	1.8	.03	0		0
23	.33	1.0	1.0	1.9	12	5.3	1.4	1.9	.03	0		0
24	.33	1.0	1.0	1.9	9.1	9.2	1.3	1.8	1.6	0		0
25	.36	1.0	1.0	1.8	6.6	13	1.4	1.7	.21	0		0
26	.36	.96	1.0	1.8	5.3	7.9	1.5	2.7	.03	0		0
27	.31	.53	1.0	1.8	4.6	6.5	1.5	3.4	.03	0		0
28	.31	.56	1.8	1.8	4.3	5.5	1.5	2.6	.02	0		0
29	.36	.74	2.1	1.8	---	5.2	2.0	2.2	.02	0		1.3
30	.31	.85	4.6	1.8	---	4.8	1.9	1.9	.01	0		2.1
31	.16	---	3.6	1.8	---	4.5	---	1.6	---	0		---
TOTAL	9.60	42.64	40.5	163.9	136.4	259.3	84.6	79.2	9.70	.03	0	3.4
MEAN	.31	1.42	1.31	5.29	4.87	8.36	2.82	2.55	.32	.001	0	.11
MAX	.60	7.6	4.6	55	20	58	4.4	4.2	1.6	.01	0	2.1
MIN	.16	.14	1.0	1.8	1.7	2.9	1.3	1.6	.01	0	0	0
AC-FT	19	85	80	325	271	514	168	157	19	.06	0	6.7

CAL YR 1976 TOTAL 3199.31 MEAN 8.74 MAX 326 MIN 0 AC-FT 6350
WTR YR 1977 TOTAL 829.27 MEAN 2.27 MAX 58 MIN 0. AC-FT 1640

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA

LOCATION.--Lat 38°36'48", long 122°50'07", in Sotoyome Grant, Sonoma County, on left bank 2 mi (3 km) east of Healdsburg, and 3.5 mi (5.6 km) upstream from Dry Creek.

DRAINAGE AREA.--793 mi^2 (2,054 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 981: 1942. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 77.01 ft (23.473 m) above mean sea level.

REMARKS.--Records good. Several diversions for irrigation of about 17,800 acres (72.0 km^2) 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.

COOPERATION.--Sixteen discharge measurements were furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE.--38 years, 1,407 ft^3/s (39.85 m^3/s), 1,019,000 acre-ft/yr (1.26 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,300 ft^3/s (2,020 m^3/s) Dec. 23, 1964, gage height, 27.00 ft (8.230 m); maximum gage height, 30.0 ft (9.14 m) Feb. 28, 1940; minimum daily discharge, 17 ft^3/s (0.48 m^3/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, 430 ft^3/s (12.2 m^3/s) Mar. 16, gage height, 1.87 ft (0.570 m); minimum daily, 17 ft^3/s (0.48 m^3/s) Apr. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	152	170	80	37	96	114	83	67	99	61	79
2	180	154	171	127	33	88	103	85	63	100	63	78
3	181	167	171	332	30	79	97	100	68	99	74	78
4	179	172	173	237	28	73	90	98	74	100	83	78
5	177	174	174	187	25	69	85	93	74	103	86	75
6	169	177	174	156	26	63	80	87	71	102	87	72
7	165	173	174	129	25	59	75	83	72	96	93	69
8	162	170	173	111	33	56	71	79	66	89	98	66
9	159	168	173	99	44	57	68	87	75	86	99	64
10	159	166	172	90	54	56	65	101	86	84	101	59
11	160	185	170	85	53	55	63	106	90	81	103	55
12	158	195	150	83	44	55	55	103	89	78	100	50
13	155	186	135	79	41	55	53	99	81	77	98	49
14	154	209	127	74	39	54	50	90	81	75	96	49
15	155	218	122	71	34	69	47	81	81	71	92	47
16	161	210	118	68	30	328	44	78	78	72	90	48
17	167	193	113	67	29	392	39	74	81	75	88	57
18	170	182	109	65	25	318	35	74	84	78	88	67
19	171	178	108	64	25	271	30	77	86	81	86	89
20	170	177	105	62	26	232	26	77	87	81	85	93
21	164	175	102	61	43	200	23	75	83	78	84	102
22	158	174	97	59	87	174	22	57	74	75	81	94
23	153	172	87	55	154	155	21	66	71	75	80	84
24	154	172	78	54	166	150	20	86	75	75	78	96
25	156	172	72	53	154	174	17	89	86	74	75	70
26	153	171	68	51	135	265	19	92	92	72	77	54
27	152	169	67	50	118	234	48	92	96	68	79	44
28	147	169	65	45	105	194	62	87	102	60	79	47
29	145	169	65	42	---	167	73	86	104	60	77	48
30	146	169	77	41	---	146	77	83	102	66	76	60
31	151	---	80	41	---	127	---	71	---	66	77	---
TOTAL	5014	5318	3840	2818	1643	4511	1672	2639	2439	2496	2634	2021
MEAN	162	177	124	90.9	58.7	146	55.7	85.1	81.3	80.5	85.0	67.4
MAX	183	218	174	332	166	392	114	106	104	103	103	102
MIN	145	152	65	41	25	54	17	57	63	60	61	44
AC-FT	9950	10550	7620	5590	3260	8950	3320	5230	4840	4950	5220	4010

CAL YR 1976 TOTAL 104885 MEAN 287 MAX 3380 MIN 65 AC-FT 208000
WTR YR 1977 TOTAL 37045 MEAN 101 MAX 392 MIN 17 AC-FT 73480

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL ANALYSES: Water years 1951-66.
WATER TEMPERATURES: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 28.0°C July 13, 14, 1972; minimum recorded, 5.0°C Dec. 10, 11, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.5°C June 22, July 30, 31; minimum, 6.0°C Jan. 7.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	12.5	19.5	17.0	25.0	23.5	23.5	23.0	27.0	24.5	23.0	22.0
2	18.0	11.5	22.0	16.5	23.5	22.0	23.5	22.0	25.5	23.5	23.0	21.5
3	19.5	13.0	20.0	17.5	23.5	21.5	23.5	22.0	25.0	23.0	23.0	21.0
4	19.5	14.0	21.5	15.0	24.5	22.0	23.0	21.5	24.5	23.0	25.0	22.0
5	19.5	14.5	20.0	16.0	27.0	24.0	23.0	21.5	23.0	22.0	25.0	23.5
6	21.0	14.5	20.0	15.5	27.0	25.5	23.5	21.5	22.0	21.0	25.0	23.5
7	17.5	15.0	19.0	15.5	26.5	25.5	24.0	22.5	23.0	21.0	24.5	23.0
8	17.0	14.0	19.5	15.0	25.5	23.5	24.5	23.0	24.0	22.5	24.0	22.5
9	18.5	13.0	18.5	16.5	24.5	20.0	24.5	23.0	23.5	22.5	24.0	22.0
10	19.0	12.5	17.5	15.5	20.0	19.0	25.0	23.5	23.5	22.0	22.5	21.0
11	20.5	14.0	17.0	15.5	22.0	18.5	25.5	23.5	23.0	22.0	22.5	20.0
12	22.0	14.5	19.0	16.0	22.0	20.5	24.5	22.5	23.5	22.0	22.5	20.0
13	21.0	16.0	22.0	16.5	21.5	20.0	24.0	22.0	23.0	21.5	22.0	19.5
14	21.0	13.5	22.0	17.5	22.0	20.0	24.0	22.0	23.0	21.5	22.0	20.0
15	22.5	15.0	21.0	16.5	23.0	20.5	25.0	22.0	23.0	21.5	20.5	19.5
16	22.5	16.5	20.5	16.0	23.0	21.5	25.0	23.0	23.5	22.0	19.5	18.0
17	21.5	15.0	21.0	16.0	22.0	20.5	25.0	23.0	23.0	22.0	18.5	17.5
18	20.5	14.0	20.5	16.0	22.5	20.0	25.0	23.5	23.5	21.5	19.0	18.0
19	22.0	13.5	22.5	16.0	23.0	21.0	25.0	23.5	24.0	22.5	20.0	18.5
20	21.5	14.0	24.0	19.0	24.5	22.0	25.0	23.5	24.0	22.5	21.5	20.0
21	20.5	14.0	23.5	19.5	26.0	23.0	25.0	23.5	24.0	22.5	21.5	20.0
22	21.0	13.5	23.0	19.0	27.5	24.5	24.5	23.0	24.0	22.5	21.5	20.0
23	21.0	12.5	19.0	17.5	27.0	24.5	24.5	23.0	24.5	23.0	21.5	20.0
24	20.5	14.0	20.5	17.5	27.0	24.5	24.0	22.5	24.0	23.0	22.5	20.5
25	20.5	16.5	20.5	19.5	26.5	25.0	24.5	22.0	23.0	21.0	22.0	19.0
26	22.0	14.0	20.0	19.5	26.0	24.5	24.5	22.5	22.5	20.0	22.0	19.0
27	22.0	15.5	21.0	18.5	24.5	23.0	25.0	23.0	23.5	21.0	22.0	20.0
28	18.5	16.0	21.5	19.0	24.0	23.0	25.0	22.5	24.0	21.5	21.0	20.0
29	20.5	17.0	22.5	20.0	23.5	21.5	26.0	22.5	25.0	22.5	21.0	19.0
30	20.5	17.5	24.0	21.5	23.5	22.0	27.5	24.5	24.0	22.5	21.0	17.5
31	---	---	25.0	23.0	---	---	27.5	25.0	24.5	22.5	---	---
MONTH	22.5	11.5	25.0	15.0	27.5	18.5	27.5	21.5	27.0	20.0	25.0	17.5

11464400 DRY CREEK NEAR YORKVILLE, CA

LOCATION.--Lat 38°47'21", long 123°19'16", in SE¼NE¼ sec.23, T.11 N., R.12 W., Sonoma County, on right bank at downstream side of bridge on Hot Springs Road, 0.1 mi (0.2 km) downstream from Rail Creek, 7.5 mi (12.1 km) west of Cloverdale, and 8.2 mi (13.2 km) southeast of Yorkville.

DRAINAGE AREA.--56.0 mi^2 (145.0 km^2).

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

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 500 ft (152 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,400 ft^3/s (436 m^3/s) Jan. 16, 1974, gage height, 13.50 ft (4.115 m); no flow on many days in 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 244 ft^3/s (6.91 m^3/s) Jan. 2, gage height, 5.54 ft (1.689 m), no peak above base of 3,000 ft^3/s (85 m^3/s); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.61	.61	1.9	6.2	2.5	9.2	8.5	3.6	.79	.42	.07	.07
2	.61	.67	1.9	85	2.5	8.1	8.0	3.9	.56	.60	.07	.17
3	.61	.72	1.9	38	2.5	8.1	7.5	3.2	.44	.60	.07	.20
4	.72	.72	1.9	19	2.5	7.0	7.2	2.4	.44	.60	.06	.20
5	.85	.72	1.9	12	2.5	7.0	7.0	2.0	.44	.60	0	.20
6	.85	.72	1.9	8.6	2.5	6.5	6.0	1.8	.44	.66	0	.13
7	.85	.72	1.9	6.5	2.5	6.5	5.9	2.1	.44	.70	0	.13
8	.85	.72	1.9	5.5	9.8	6.5	6.4	2.1	.44	.79	0	.13
9	.85	.72	1.9	5.0	9.8	7.5	6.2	3.5	.44	.79	0	.13
10	.85	.99	1.9	4.6	7.0	7.0	5.5	4.7	.44	.88	0	.13
11	.85	4.5	1.9	4.6	5.5	6.5	5.4	3.8	.44	.79	0	.13
12	.85	2.8	1.9	4.6	5.0	6.5	5.0	3.7	.44	.79	0	.13
13	.85	2.8	1.9	4.6	4.6	6.5	4.9	3.0	.44	.79	0	.13
14	.72	16	1.9	4.1	4.6	6.5	4.1	2.2	.44	.79	0	.13
15	.72	12	1.9	4.1	4.1	61	4.0	1.8	.44	.79	0	.11
16	.72	5.6	1.9	3.7	4.1	61	3.7	1.7	.30	.79	0	0
17	.72	4.0	1.9	3.7	3.7	32	3.7	1.5	.30	.44	0	.10
18	.72	3.3	1.9	3.3	3.7	22	3.3	1.4	.30	.25	0	0
19	.72	2.8	1.9	3.3	3.7	18	3.3	2.4	.30	.25	0	12
20	.72	2.7	1.9	3.3	4.6	15	3.3	2.0	.30	.25	0	.13
21	.72	2.7	1.9	3.3	69	13	3.2	1.4	.30	.20	0	.07
22	.72	2.7	1.9	2.9	45	12	2.5	1.2	.30	.20	0	.07
23	.72	2.1	2.0	2.9	31	11	2.5	1.2	.30	.13	0	.07
24	.72	2.1	2.1	2.9	24	17	2.5	1.2	.36	.13	0	.07
25	.72	2.1	2.1	2.9	17	21	2.6	1.2	.44	.13	0	.13
26	.72	2.1	2.1	2.9	13	16	2.8	1.8	.44	.13	.04	.20
27	.72	2.0	2.1	2.9	11	13	2.4	2.3	.44	.13	.10	.20
28	.72	1.9	2.1	2.9	10	11	2.1	1.6	.44	.13	.13	6.4
29	.72	1.9	2.8	2.9	---	10	2.1	1.2	.44	.13	.13	8.1
30	.72	1.9	12	2.9	---	9.2	2.3	1.0	.30	.07	.07	2.9
31	.72	---	9.4	2.9	---	9.1	---	.95	---	.07	.07	---
TOTAL	23.16	85.31	78.5	262.0	307.7	450.7	133.9	67.85	12.33	14.02	.81	32.56
MEAN	.75	2.84	2.53	8.45	11.0	14.5	4.46	2.19	.41	.45	.026	1.09
MAX	.85	16	12	85	69	61	8.5	4.7	.79	.88	.13	12
MIN	.61	.61	1.9	2.9	2.5	6.5	2.1	.95	.30	.07	0	0
AC-FT	46	169	156	520	610	894	266	135	24	28	1.6	65

CAL YR 1976 TOTAL 5186.40 MEAN 14.2 MAX 321 MIN .61 AC-FT 10290
WTR YR 1977 TOTAL 1468.84 MEAN 4.02 MAX 85 MIN 0 AC-FT 2910

11464500 DRY CREEK NEAR CLOVERDALE, CA

LOCATION.--Lat 38°44'59", long 123°05'28", in NE¼NE¼ sec.5, T.10 N., R.11 W., Sonoma County, on left bank 500 ft (152 m) downstream from Smith Creek, and 5 mi (8 km) southwest of Cloverdale.

DRAINAGE AREA.--87.8 mi^2 (227.4 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1395: 1942(M), 1943, 1946(M), 1951-54(M), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 304.04 ft (92.671 m) above mean sea level.

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

COOPERATION.--Three discharge measurements were furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE.--36 years, 158 ft^3/s (4.475 m^3/s), 114,500 acre-ft/yr (141 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,100 ft^3/s (513 m^3/s) Dec. 22, 1964, gage height, 18.09 ft (5.514 m); minimum, 0.08 ft^3/s (0.002 m^3/s) Aug. 18, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1937 reached a stage of about 18 ft (5.5 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 330 ft^3/s (9.35 m^3/s) Jan. 2, gage height, 3.77 ft (1.149 m), no peak above base of 3,300 ft^3/s (93 m^3/s); minimum daily, 0.08 ft^3/s (0.002 m^3/s) Aug. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	.99	2.4	9.0	4.2	11	13	6.4	2.0	.21	.10	.11
2	1.7	1.0	2.4	117	4.2	9.0	11	7.0	1.8	.21	.10	.11
3	1.5	1.0	2.4	73	3.9	8.5	10	5.4	1.6	.26	.11	.11
4	1.2	1.1	2.4	34	3.9	7.6	9.4	4.9	1.5	.19	.11	.11
5	1.1	1.0	2.4	19	3.9	7.2	8.9	4.4	1.4	.17	.11	.11
6	1.0	1.0	2.4	14	3.9	6.3	8.4	4.3	1.2	.21	.11	.10
7	.96	1.0	2.4	11	3.9	5.9	8.1	5.0	1.2	.25	.11	.09
8	.90	1.0	2.4	8.5	15	5.9	10	4.9	1.2	.26	.12	.10
9	.93	1.1	2.4	7.6	18	7.6	9.3	7.8	1.2	.22	.13	.11
10	.85	1.9	2.4	7.2	11	6.7	7.4	9.5	1.3	.21	.11	.11
11	.82	6.7	2.4	6.7	8.0	5.9	6.9	9.5	1.4	.22	.11	.12
12	.79	5.2	2.4	8.0	6.7	5.9	6.3	9.1	1.1	.21	.11	.11
13	.78	4.5	2.4	7.2	6.3	5.9	5.9	6.6	1.1	.18	.10	.10
14	.82	19	2.4	6.3	5.9	5.6	5.6	5.1	.93	.16	.09	.10
15	.83	17	2.4	5.9	5.6	80	5.8	4.3	.88	.13	.09	.11
16	.79	8.0	2.4	5.6	5.2	99	5.4	3.9	.81	.13	.09	.12
17	.79	5.9	2.4	5.6	4.9	50	5.1	3.7	.71	.13	.09	.23
18	.78	4.9	2.4	5.2	4.9	32	4.8	4.3	.70	.11	.08	.12
19	.77	3.9	2.4	5.2	4.5	24	4.7	5.8	.64	.11	.12	15
20	.79	3.7	2.4	5.2	5.9	20	4.6	4.8	.49	.10	.12	3.4
21	.84	3.1	2.4	4.9	103	17	4.4	3.8	.47	.11	.12	1.0
22	.86	3.1	2.4	4.9	73	15	4.3	3.7	.42	.14	.13	.79
23	.78	2.9	2.4	4.9	52	15	4.2	3.7	.32	.16	.15	.69
24	.79	2.9	2.4	4.5	35	29	4.2	3.6	.29	.15	.15	.69
25	.82	2.9	2.4	4.5	24	31	4.6	3.4	.26	.14	.15	.69
26	.86	2.9	2.4	4.5	18	25	4.6	4.6	.26	.13	.15	.69
27	.87	2.9	2.4	4.5	15	20	4.2	4.8	.24	.12	.14	.69
28	.89	2.4	2.4	4.2	13	18	4.2	3.5	.20	.13	.14	5.2
29	.96	2.4	3.1	4.2	---	17	4.4	2.9	.21	.11	.13	12
30	1.0	2.4	11	4.2	---	17	5.1	2.5	.22	.12	.12	5.2
31	1.0	---	12	4.2	---	14	---	2.2	---	.11	.12	---
TOTAL	29.17	117.79	93.3	410.7	462.8	622.0	194.8	155.4	26.05	5.09	3.61	48.11
MEAN	.94	3.93	3.01	13.2	16.5	20.1	6.49	5.01	.87	.16	.12	1.60
MAX	1.7	19	12	117	103	99	13	9.5	2.0	.26	.15	15
MIN	.77	.99	2.4	4.2	3.9	5.6	4.2	2.2	.20	.10	.08	.09
AC-FT	58	234	185	815	918	1230	386	308	52	10	7.2	95

CAL YR 1976 TOTAL 7149.29 MEAN 19.5 MAX 410 MIN .30 AC-FT 14180
WTR YR 1977 TOTAL 2168.82 MEAN 5.94 MAX 117 MIN .08 AC-FT 4300

11464500 DRY CREEK NEAR CLOVERDALE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1965 to current year.

INSTRUMENTATION.--Temperature recorder since May 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 35.0°C Aug. 29, 1977; minimum recorded, 2.0°C Dec. 10, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 35.0°C Aug. 29; minimum, 3.5°C Jan. 9.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	8.0	8.5	7.0	12.0	7.5	14.5	8.5
2	21.0	19.0	---	---	12.0	8.0	9.5	8.0	10.5	6.5	13.5	8.0
3	23.5	17.5	---	---	12.0	8.0	9.5	7.0	11.5	7.5	14.5	9.5
4	23.5	16.5	---	---	12.0	8.5	9.0	6.0	11.0	7.0	15.5	8.5
5	24.0	16.0	---	---	11.5	8.0	8.0	5.5	11.5	7.5	15.5	8.5
6	24.0	16.5	---	---	11.5	8.0	8.5	4.0	13.5	8.5	15.0	8.5
7	24.0	17.5	---	---	11.5	8.0	8.0	4.0	12.5	8.5	13.0	11.0
8	24.0	17.0	---	---	11.0	8.0	8.0	4.0	12.5	10.5	17.0	11.0
9	23.0	16.5	---	---	11.0	9.0	7.5	3.5	13.0	10.0	16.0	10.5
10	22.5	16.0	18.0	15.5	11.0	8.0	9.0	5.0	14.0	9.5	16.0	8.5
11	23.5	17.0	17.0	16.0	10.5	7.0	8.5	6.0	15.0	9.5	15.5	8.5
12	22.5	15.0	17.5	15.0	10.0	6.5	9.5	7.5	14.5	10.0	15.0	10.5
13	22.0	14.5	16.0	14.5	9.5	6.5	10.0	7.5	16.0	10.5	13.5	9.0
14	21.5	14.5	16.5	15.0	9.5	6.0	9.0	7.5	16.0	10.5	14.0	7.5
15	21.0	14.5	19.0	16.0	10.0	6.5	10.0	7.0	16.0	10.5	10.5	8.0
16	21.5	15.0	19.0	16.0	9.5	6.0	10.0	7.0	16.0	10.5	11.0	8.0
17	21.0	14.0	19.0	16.0	9.5	5.5	9.5	7.0	15.5	10.5	15.0	8.0
18	20.0	14.0	18.0	15.0	9.5	5.5	9.0	6.0	16.0	10.0	15.0	8.0
19	20.5	15.0	17.0	14.0	8.5	5.0	10.0	6.5	16.0	10.0	17.0	9.5
20	20.0	13.5	16.5	15.0	8.5	5.0	10.5	7.0	13.0	12.0	17.0	9.0
21	20.0	14.5	17.0	15.0	9.0	6.0	11.0	8.0	13.0	11.0	17.5	9.5
22	20.0	16.0	16.5	14.5	9.0	6.0	11.0	8.0	14.0	10.0	17.5	10.0
23	19.0	14.5	16.5	14.5	9.5	7.0	11.5	7.5	14.5	11.0	15.5	11.0
24	18.0	14.5	16.0	13.5	9.0	5.0	11.5	7.5	14.0	9.5	18.0	10.0
25	19.0	14.0	15.0	13.0	9.0	6.0	10.5	6.5	15.0	8.5	17.0	8.5
26	19.0	14.0	15.0	12.0	9.0	5.0	10.5	6.0	15.5	9.0	17.5	9.0
27	17.5	12.0	12.5	10.0	9.5	6.0	11.0	6.5	16.0	9.0	17.5	10.0
28	17.0	11.5	12.5	8.5	8.5	5.0	11.0	6.5	16.0	10.5	16.5	8.5
29	16.0	12.0	12.0	8.5	9.0	6.5	10.5	7.0	---	---	16.5	9.0
30	---	---	12.0	8.5	9.5	8.5	10.5	8.5	---	---	16.0	9.0
31	---	---	---	---	10.5	7.0	12.5	8.5	---	---	17.0	8.5
MONTH	24.0	11.5	---	---	12.0	5.0	12.5	3.5	16.0	6.5	18.0	7.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	10.0	20.5	16.5	26.5	17.5	28.0	20.0	29.0	16.5	32.0	19.5
2	18.5	10.0	22.0	16.0	25.5	16.5	30.0	19.5	29.0	16.5	30.0	17.5
3	19.5	10.5	20.5	15.0	26.0	16.5	29.5	17.5	31.5	18.0	32.0	17.5
4	20.5	11.5	23.5	14.0	28.5	16.5	29.0	17.5	31.0	18.0	32.5	20.0
5	21.0	13.5	20.5	14.5	29.5	17.0	29.0	19.5	27.0	18.0	33.0	19.0
6	22.0	14.0	18.5	13.0	31.0	18.5	31.0	20.5	27.0	17.0	32.0	18.0
7	19.5	14.5	18.0	13.0	27.5	20.5	31.0	19.5	32.0	18.0	32.0	16.5
8	18.5	14.0	20.5	13.5	28.0	19.0	29.5	19.0	31.5	17.5	32.0	17.5
9	20.0	12.0	16.5	15.5	20.0	18.5	30.0	16.5	30.5	18.0	30.0	17.5
10	20.0	11.5	19.0	15.0	21.0	18.0	30.0	16.0	30.0	18.5	28.5	18.0
11	22.0	12.5	18.0	14.5	26.5	17.0	28.5	17.5	31.0	18.5	28.0	17.5
12	22.5	13.0	21.5	14.5	26.0	18.0	28.5	17.0	30.0	18.0	28.0	18.0
13	21.5	13.5	23.5	14.0	26.5	18.0	28.5	17.0	31.0	18.0	27.5	17.5
14	22.5	13.0	23.5	14.5	27.5	18.5	29.5	16.0	30.5	17.0	27.0	19.0
15	23.0	14.0	22.5	14.0	28.0	18.5	29.0	15.5	31.5	18.0	22.0	17.0
16	23.0	14.0	22.5	13.0	27.0	18.5	29.0	17.0	32.0	18.0	20.0	17.0
17	23.0	14.0	24.0	13.5	27.0	18.0	28.0	17.0	31.5	18.0	21.5	18.0
18	22.5	13.5	17.5	14.5	27.0	18.5	30.0	17.5	32.0	18.5	21.0	18.5
19	23.5	13.5	25.0	15.5	28.0	18.5	30.0	16.5	32.0	19.0	25.0	18.0
20	23.5	14.0	25.5	16.0	27.5	17.5	29.5	16.0	33.0	18.5	26.0	18.0
21	22.5	14.5	24.5	16.5	30.0	19.0	30.5	16.0	32.5	18.5	26.5	17.5
22	22.5	14.0	20.0	16.5	30.5	20.0	30.0	16.0	31.0	18.5	---	---
23	22.5	13.5	20.5	16.0	31.5	19.5	30.0	17.0	31.5	18.0	---	---
24	20.5	14.5	24.0	14.5	31.0	20.0	28.0	17.0	31.0	20.0	---	---
25	22.5	16.5	21.5	15.5	31.5	20.5	24.0	16.0	32.0	18.0	---	---
26	24.0	14.5	24.0	17.0	31.5	19.5	28.0	15.0	32.0	17.0	---	---
27	24.0	14.5	25.0	15.0	30.5	19.0	28.5	15.0	31.0	16.0	---	---
28	18.5	15.5	25.0	15.5	28.5	19.0	29.5	17.0	31.5	18.5	---	---
29	21.5	16.0	26.0	15.0	30.5	19.0	30.5	17.0	35.0	19.0	---	---
30	20.5	17.0	27.5	16.0	30.0	19.0	32.0	16.5	34.0	18.5	---	---
31	---	---	27.5	16.5	---	---	30.0	16.5	32.5	19.5	---	---
MONTH	24.0	10.0	27.5	13.0	31.5	16.5	32.0	15.0	35.0	16.0	---	---

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, on left bank, 0.6 mi (1.0 km) upstream from Strawberry Creek, 7.9 mi (12.7 km) southwest of Asti.

DRAINAGE AREA.--12.2 mi^2 (31.6 km^2).

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,230 ft^3/s (63.2 m^3/s) Jan. 16, 1974, gage height, 9.66 ft (2.944 m); no flow many days in 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57 ft^3/s (1.61 m^3/s) Jan 2, gage height, 3.70 ft (1.128 m), no peak above base of 450 ft^3/s (13 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	.19	.60	1.3	1.1	1.7	1.6	1.3	.44	.01		0
2	.73	.19	.60	18	1.1	1.6	1.5	1.3	.36	.01		0
3	.52	.19	.60	6.5	1.1	1.5	1.4	1.1	.30	.01		0
4	.37	.15	.60	3.2	1.1	1.4	1.4	.98	.30	0		0
5	.23	.11	.60	2.3	1.1	1.3	1.3	.92	.27	.01		0
6	.19	.11	.60	1.9	1.1	1.3	1.3	.86	.18	.01		0
7	.19	.11	.60	1.7	1.3	1.3	1.3	.92	.18	.02		0
8	.19	.11	.60	1.5	5.6	1.2	1.4	.92	.16	.01		0
9	.15	.11	.60	1.4	2.0	1.7	1.3	1.5	.18	.01		0
10	.15	.23	.60	1.4	1.5	1.3	1.3	1.3	.24	.01		0
11	.11	2.2	.60	1.4	1.3	1.2	1.2	1.2	.24	.01		0
12	.07	.79.	.60	1.7	1.3	1.3	1.1	1.1	.22	.01		0
13	.07	.98	.60	1.4	1.2	1.3	1.1	.98	.20	0		0
14	.07	6.0	.60	1.4	1.0	1.2	1.0	.92	.18	0		0
15	.07	1.9	.60	1.3	1.1	16	1.0	.86	.16	0		0
16	.05	.86	.60	1.3	1.0	11	.98	.75	.13	0		0
17	.05	.60	.60	1.3	1.0	5.6	.94	.75	.13	0		.02
18	.05	.56	.60	1.3	.97	4.0	.91	.98	.16	0		.05
19	.07	.52	.60	1.3	.95	3.1	.88	1.0	.12	0		6.8
20	.07	.52	.60	1.3	1.3	2.8	.86	.86	.10	0		.92
21	.07	.52	.60	1.3	16	2.5	.85	.75	.08	0		.65
22	.07	.52	.60	1.2	7.9	2.2	.83	.75	.06	0		.56
23	.11	.52	.60	1.2	8.0	2.3	.82	.75	.04	0		.40
24	.07	.48	.60	1.2	5.5	6.3	.81	.75	.02	0		.30
25	.15	.48	.60	1.2	3.5	3.8	.92	.75	.01	0		.24
26	.15	.48	.60	1.2	2.7	2.9	.85	1.2	.02	0		.24
27	.15	.52	.60	1.2	2.1	2.5	.81	.92	.02	0		.24
28	.11	.56	.60	1.2	1.9	2.2	.86	.75	.01	0		2.4
29	.15	.60	.86	1.1	---	2.0	.86	.65	0	0		1.3
30	.15	.60	2.9	1.2	---	1.9	.98	.60	.01	0		.92
31	.19	---	1.4	1.2	---	1.7	---	.52	---	0		---
TOTAL	5.29	21.71	21.96	66.1	75.72	92.1	32.36	28.89	4.52	.12	0	15.04
MEAN	.17	.72	.71	2.13	2.70	2.97	1.08	.93	.15	.004	0	.50
MAX	.73	6.0	2.9	18	16	16	1.6	1.5	.44	.02	0	6.8
MIN	.05	.11	.60	1.1	.95	1.2	.81	.52	0	0	0	0
AC-FT	10	43	44	131	150	183	64	57	9.0	.2	0	30

CAL YR 1976 TOTAL 1263.91 MEAN 3.45 MAX 84 MIN .05 AC-FT 2510
WTR YR 1977 TOTAL 363.81 MEAN 1.00 MAX 18 MIN 0 AC-FT 722

11465200 DRY CREEK NEAR GEYSERVILLE, CA

LOCATION.--Lat 38°41'55", long 122°57'25", in Tzabaco Grant, Sonoma County, on left bank pier of bridge 0.3 mi (0.5 km) downstream from Pena Creek, and 3 mi (5 km) west of Geyserville.

DRAINAGE AREA.--162 mi^2 (420 km^2).

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), above mean sea level. 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 except those below 5.0 ft^3/s (0.14 m^3/s), which are poor. No regulation; small diversions above station for orchard irrigation of about 1,200 acres (4.86 km^2) in summer.

COOPERATION.--Four discharge measurements were furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE.--18 years, 310 ft^3/s (8.779 m^3/s), 224,600 acre-ft/yr (277 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,400 ft^3/s (918 m^3/s) Jan. 31, 1963, gage height, 18.50 ft (5.639 m) present datum; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 821 ft^3/s (23.3 m^3/s) Jan. 2, gage height, 4.69 ft (1.430 m), no peak above base of 8,200 ft^3/s (232 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	2.7	18	8.0	27	18	6.6	1.6			
2		0	2.5	165	7.6	23	17	7.9	1.0			
3		0	2.7	132	7.2	20	17	8.1	.78			
4		0	3.6	64	7.2	18	16	5.8	.53			
5		0	3.6	40	7.2	17	15	4.5	.42			
6		0	3.2	29	7.2	16	15	4.4	.35			
7		0	3.0	22	7.2	15	15	4.0	.24			
8		0	3.0	18	12	14	15	4.3	.28			
9		0	3.0	16	36	18	16	8.0	.27			
10		0	2.8	14	24	17	14	12	.38			
11		0	2.8	13	18	16	13	13	.31			
12		0	2.8	13	15	16	12	14	.21			
13		0	2.8	13	13	15	10	12	.19			
14		0	2.8	12	12	15	8.6	8.1	.22			
15		8.8	3.0	12	11	80	8.4	6.3	.22			
16		10	3.2	11	11	191	7.7	5.1	.14			
17		6.8	3.6	10	10	91	7.3	4.4	.11			
18		5.4	4.1	10	8.8	59	6.7	3.8	.04			
19		4.6	4.1	9.6	8.4	44	6.5	3.8	.02			
20		3.8	4.3	9.2	8.4	35	5.1	5.0	.06			
21		3.6	4.6	9.2	101	29	4.4	4.0	.05			
22		3.4	4.6	8.8	115	24	4.3	3.1	0			
23		3.2	4.6	8.8	85	23	3.4	2.3	0			
24		3.2	5.1	8.4	70	44	3.7	2.8	0			
25		3.2	4.8	8.4	49	47	4.5	2.8	0			
26		3.2	4.1	8.4	37	34	5.6	2.9	0			
27		2.8	4.1	8.0	33	27	5.5	3.7	0			
28		2.8	4.1	8.0	31	23	4.1	4.2	0			
29		2.8	4.3	8.0	---	21	3.9	3.3	0			
30		2.8	8.8	8.0	---	20	4.8	2.5	0			
31		---	21	8.0	---	19	---	2.1	---			---
TOTAL	0	70.4	133.7	722.8	760.2	1058	287.5	174.8	7.42	0	0	0
MEAN	0	2.35	4.31	23.3	27.2	34.1	9.58	5.64	.25	0	0	0
MAX	0	10	21	165	115	191	18	14	1.6	0	0	0
MIN	0	0	2.5	8.0	7.2	14	3.4	2.1	0	0	0	0
AC-FT	0	140	265	1430	1510	2100	570	347	15	0	0	0

CAL YR 1976	TOTAL	11906.36	MEAN 32.5	MAX 856	MIN 0	AC-FT	23620	
WTR YR 1977	TOTAL	3214.82	MEAN 8.81	MAX 191	MIN 0	AC-FT	6380	

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.--Sediment table omitted for period of no flow July 1 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 26.5°C Aug. 11, 1971, Aug. 23, 1974; minimum recorded, 3.5°C Jan. 3, 1974.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 15,000 mg/L (estimated) Dec. 22, 1964; minimum daily mean, no flow for many days in 1964, 1966, 1970-77.
SEDIMENT DISCHARGE: Maximum daily, 830,000 tons (753,000 tonnes), estimated, Dec. 22, 1964; minimum daily, 0 tons (0 tonnes) on many days in 1964, 1966, 1968-77.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 23.0°C June 5; minimum, 8.0°C Jan. 2-4, Mar. 16.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 141 mg/L Jan. 2; minimum daily mean, no flow for many days.
SEDIMENT DISCHARGE: Maximum daily, 166 tons (151 tonnes) Jan. 2; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
JAN 04...	1210	65	266	7.2	8.0	6	11.0	95	120	0	25
MAR 17...	1115	88	261	7.1	9.0	4	11.4	100	110	12	24
MAY 17...	1050	4.6	283	7.6	16.0	1	9.8	100	130	2	27

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
JAN 04...	13	15	22	.6	.8	150	0	120	22	7.5	.2
MAR 17...	12	14	22	.6	.8	120	0	100	22	6.5	.2
MAY 17...	16	16	21	.6	.8	160	0	130	25	8.4	.2

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
JAN 04...	14	173	.24	30.5	.23	.23	.03	.02	.11	--	.14
MAR 17...	13	153	.21	36.4	.01	.03	.00	.00	.18	--	.18
MAY 17...	14	187	.25	2.32	.01	.01	.00	.02	.09	.04	.09

DATE	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)
JAN 04...	--	--	.37	.03	.01	.03	3	2	5	830	10
MAR 17...	--	--	.19	.03	.02	.06	1	0	2	690	<10
MAY 17...	.03	.06	.10	.01	.02	.06	0	0	4	900	<10

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
JAN 04...	1	<1	0	0	19	<10	1	10	20	22	3
MAR 17...	0	<1	0	0	18	<10	1	9	10	3	0
MAY 17...	1	<1	0	0	22	<10	0	10	30	<100	4

DATE	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN 04...	<10	.1	.2	.1	10	10	17	1.9
MAR 17...	5	.2	.0	.0	0	10	18	1.9
MAY 17...	<10	.1	.0	.0	5	0	19	.8

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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				0	0	0	2.7	2	.01
2				0	0	0	2.5	2	.01
3				0	0	0	2.7	2	.01
4				0	0	0	3.6	2	.02
5				0	0	0	3.6	2	.02
6				0	0	0	3.2	2	.02
7				0	0	0	3.0	2	.02
8				0	0	0	3.0	2	.02
9				0	0	0	3.0	1	.01
10				0	0	0	2.8	1	.01
11				0	0	0	2.8	1	.01
12				0	0	0	2.8	1	.01
13				0	0	0	2.8	1	.01
14				0	0	0	2.8	0	0
15				8.8	2	.05	3.0	0	0
16				10	1	.03	3.2	0	0
17				6.8	1	.02	3.6	0	0
18				5.4	1	.01	4.1	0	0
19				4.6	1	.01	4.1	1	.01
20				3.8	1	.01	4.3	1	.01
21				3.6	1	.01	4.6	2	.02
22				3.4	1	.01	4.6	4	.05
23				3.2	1	.01	4.6	2	.02
24				3.2	1	.01	5.1	1	.01
25				3.2	1	.01	4.8	1	.01
26				3.2	1	.01	4.1	1	.01
27				2.8	1	.01	4.1	2	.02
28				2.8	1	.01	4.1	3	.03
29				2.8	2	.02	4.3	5	.06
30				2.8	2	.02	8.8	6	.14
31				---	---	---	21	7	.40
TOTAL	0	0	0	70.40	---	.25	133.7	---	.97

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	JANUARY			FEBRUARY			MARCH		
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	18	3	.15	8.0	1	.02	27	3	.22
2	165	141	166	7.6	1	.02	23	3	.19
3	132	90	42	7.2	2	.04	20	2	.11
4	64	7	1.2	7.2	2	.04	18	2	.10
5	40	1	.11	7.2	2	.04	17	2	.09
6	29	2	.16	7.2	1	.02	16	2	.09
7	22	2	.12	7.2	1	.02	15	2	.08
8	18	2	.10	12	4	.13	14	2	.08
9	16	3	.13	36	11	1.1	18	2	.10
10	14	5	.19	24	5	.32	17	2	.09
11	13	4	.14	18	2	.10	16	2	.09
12	13	2	.07	15	3	.12	16	2	.09
13	13	2	.07	13	3	.11	15	2	.08
14	12	2	.06	12	4	.13	15	2	.08
15	12	2	.06	11	3	.09	80	103	22
16	11	2	.06	11	2	.06	191	43	29
17	10	2	.05	10	3	.08	91	5	1.2
18	10	2	.05	8.8	6	.14	59	3	.48
19	9.6	4	.10	8.4	4	.09	44	2	.24
20	9.2	2	.05	8.4	3	.07	35	3	.28
21	9.2	1	.02	101	130	35	29	4	.31
22	8.8	1	.02	115	65	20	24	3	.19
23	8.8	1	.02	85	7	1.6	23	2	.12
24	8.4	1	.02	70	5	.94	44	27	3.9
25	8.4	1	.02	49	3	.40	47	18	2.3
26	8.4	1	.02	37	2	.20	34	5	.46
27	8.0	1	.02	33	2	.18	27	4	.29
28	8.0	1	.02	31	4	.33	23	3	.19
29	8.0	1	.02	---	---	---	21	3	.17
30	8.0	2	.04	---	---	---	20	3	.16
31	8.0	2	.04	---	---	---	19	3	.15
TOTAL	722.8	---	211.13	760.2	---	61.39	1058	---	62.93

	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	18	3	.15	6.6	3	.05	1.6	4	.02
2	17	2	.09	7.9	2	.04	1.0	3	.01
3	17	2	.09	8.1	3	.07	.78	3	.01
4	16	2	.09	5.8	5	.08	.53	3	0
5	15	2	.08	4.5	4	.05	.42	3	0
6	15	5	.20	4.4	3	.04	.35	3	0
7	15	4	.16	4.0	2	.02	.24	4	0
8	15	4	.16	4.3	1	.01	.28	5	0
9	16	4	.17	8.0	4	.09	.27	4	0
10	14	3	.11	12	3	.10	.38	4	0
11	13	3	.11	13	2	.07	.31	3	0
12	12	3	.10	14	2	.08	.21	3	0
13	10	2	.05	12	2	.06	.19	3	0
14	8.6	2	.05	8.1	2	.04	.22	3	0
15	8.4	3	.07	6.3	2	.03	.22	3	0
16	7.7	3	.06	5.1	2	.03	.14	3	0
17	7.3	3	.06	4.4	2	.02	.11	2	0
18	6.7	4	.07	3.8	2	.02	.04	2	0
19	6.5	3	.05	3.8	2	.02	.02	2	0
20	5.1	3	.04	5.0	3	.04	.06	1	0
21	4.4	3	.04	4.0	3	.03	.05	1	0
22	4.3	3	.03	3.1	4	.03	0	0	0
23	3.4	3	.03	2.3	5	.03	0	0	0
24	3.7	2	.02	2.8	4	.03	0	0	0
25	4.5	2	.02	2.8	4	.03	0	0	0
26	5.6	2	.03	2.9	4	.03	0	0	0
27	5.5	2	.03	3.7	4	.04	0	0	0
28	4.1	2	.02	4.2	4	.05	0	0	0
29	3.9	2	.02	3.3	4	.04	0	0	0
30	4.8	2	.03	2.5	4	.03	0	0	0
31	---	---	---	2.1	4	.02	---	---	---
TOTAL	287.5	---	2.23	174.8	---	1.32	7.42	---	.04
YEAR	3214.82		340.26						

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
JAN							
03...	1140	8.5	115	55	17	--	--
FEB							
21...	1520	12.0	191	222	114	--	--
MAR							
15...	1440	10.5	87	79	19	--	--
15...	1700	10.0	125	330	111	65	83
24...	1650	14.5	57	68	10	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
JAN							
03...	--	--	--	98	98	100	--
FEB							
21...	--	--	--	98	99	99	100
MAR							
15...	--	--	--	100	--	--	--
15...	93	98	99	99	100	--	--
24...	--	--	--	100	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
AUG							
08...	1045	1	.00	19	58	95	98
08...	1050	1	.00	--	--	1	12
08...	1055	1	.00	--	1	4	17
08...	1100	1	.00	1	2	6	20
08...	1105	1	.00	1	4	14	17
08...	1110	1	.00	7	22	49	60

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
AUG						
08...	99	100	--	--	--	--
08...	27	38	52	66	82	100
08...	34	54	69	80	91	100
08...	34	45	56	67	82	100
08...	17	19	33	54	79	100
08...	60	64	77	91	99	100

11465200 DRY CREEK NEAR GEYSERVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	TUR-BID-ITY (JTU)
NOV			
17...	--	1	1
DEC			
06...	--	2	1
13...	--	1	0
15...	1010	0	1
15...	1550	0	0
17...	--	0	0
20...	--	1	0
22...	--	4	1
24...	--	1	0
29...	--	5	1
31...	--	8	7
JAN			
04...	--	5	5
05...	--	1	1
07...	--	3	2
10...	--	5	2
12...	1555	2	1
12...	1600	1	1
14...	--	2	1
17...	--	2	1
19...	--	9	1
24...	--	1	1
26...	--	1	1
28...	--	1	1
31...	--	2	1
FEB			
02...	--	1	1
04...	--	2	1
07...	--	1	1
09...	--	11	10
11...	--	2	1
14...	--	4	1
16...	--	2	1
18...	--	8	1
21...	0840	17	5
21...	1520	222	110
22...	--	31	30
23...	1200	6	5
23...	1540	6	5
26...	--	2	1
28...	--	4	1
MAR			
02...	--	3	1
04...	--	2	1
07...	--	2	1
09...	--	2	1
11...	--	2	1
14...	--	2	1
15...	1015	3	1
MAR			
15...	1440	79	65
15...	1600	448	350
15...	1700	330	350
15...	1910	223	220
16...	1155	26	25
16...	1200	25	25
16...	1210	25	20
16...	1635	16	15
16...	1855	14	10
17...	1100	6	4
17...	1105	4	3
17...	1555	4	3
21...	--	4	1
23...	1340	2	1
23...	1350	1	1
23...	1400	2	1
23...	1540	3	1
24...	--	68	75
25...	--	11	10
28...	--	3	1
31...	--	3	1
APR			
04...	--	2	1
05...	--	2	1
06...	--	6	1
08...	--	4	1
11...	--	3	1
APR			
13...	--	2	1
16...	--	3	1
18...	--	4	1
20...	--	3	1
23...	--	3	1
25...	--	2	1
29...	--	2	1
MAY			
02...	--	2	1
04...	--	7	1
09...	--	4	1
11...	--	2	1
17...	--	2	1
20...	--	3	1
23...	--	5	1
25...	--	4	1
30...	--	4	1
JUN			
01...	--	4	2
03...	--	3	1
08...	--	5	2
14...	--	3	1

11466500 LAGUNA DE SANTA ROSA NEAR GRATON, CA

LOCATION.--Lat 38°27'10", long 122°50'03", in Molinos Grant, Sonoma County, on downstream side of left bank pier of highway bridge, 0.2 mi (0.3 km) downstream from Santa Rosa Creek, and 2 mi (3 km) northeast of Graton.

PERIOD OF RECORD.--February 1940 to September 1949 (contents only), October 1964 to current year in reports of Geological Survey. October 1949 to September 1964 available in files of district office.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Dec. 31, 1958, at site 75 ft (23 m) downstream at same datum.

REMARKS.--The laguna is a natural water channel and overflow basin connecting Santa Rosa Creek, Mark West Creek, and other smaller creeks with Russian River. During floods directions of flow may be either to or from Russian River and the laguna acts as a natural regulator of floods on lower Russian River. Elevations did not reach 55.0 ft (16.76 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 73.3 ft (22.34 m) Dec. 23, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 50.63 ft (15.432 m) Mar. 15.

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, on right bank at downstream side of Hacienda bridge, 0.1 mi (0.2 km) upstream from Hobson Creek, and 3.8 mi (6.1 km) east of Guerneville.

DRAINAGE AREA.--1,338 mi^2 (3,465 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1395: Drainage area at former site. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 20.14 ft (6.139 m) above mean sea level. Prior to Oct. 1, 1954, nonrecording gage at bridge 5.3 mi (8.5 km) downstream at datum 8.58 ft (2.615 m) lower. Oct. 1, 1954, to Oct. 23, 1974, at site 0.7 mi (1.1 km) downstream at datum 2.75 ft (0.838 m) lower. Supplementary water-stage recorder 2.1 mi (3.4 km) downstream used during periods of low flow 1948-54.

REMARKS.--Records good. Many diversions above station for irrigation of about 29,000 acres (117 km^2). Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations), since November 1958 by storage in Lake Mendocino (station 1141800) 77 mi (124 km^2) upstream and by diversion at Wohler pumping plant beginning in May 1959.

COOPERATION.--Twenty-five discharge measurements were furnished by Sonoma County Water Agency.

AVERAGE DISCHARGE.--38 years, 2,251 ft^3/s (63.75 m^3/s), 1,631,000 acre-ft/yr (2.01 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93,400 ft^3/s (2,650 m^3/s) Dec. 23, 1964, gage height, 49.6 ft (15.12 m) site and datum then in use, from floodmarks; maximum gage height, 49.7 ft (15.15 m) Dec. 23, 1955, site and datum then in use, from floodmarks; minimum daily discharge, 0.75 ft^3/s (0.021 m^3/s) May 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,370 ft^3/s (38.8 m^3/s) Mar. 16, gage height, 7.50 ft (2.286 m), no peak above base of 23,000 ft^3/s (651 m^3/s); minimum daily, 0.75 ft^3/s (0.021 m^3/s) May 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	97	154	95	40	130	125	7.4	24	47	4.3	25
2	235	102	156	303	39	117	120	40	21	55	4.3	23
3	204	109	155	506	34	105	115	21	19	62	5.1	28
4	188	120	156	432	32	95	97	7.9	22	64	6.8	34
5	158	124	160	302	31	88	99	2.7	23	61	11	39
6	157	136	159	233	30	81	88	.75	18	59	17	26
7	155	142	159	174	28	66	75	2.5	16	58	32	18
8	149	138	159	151	45	58	73	30	18	51	34	17
9	143	140	158	132	97	57	88	41	14	45	44	16
10	143	137	160	112	58	60	83	62	18	41	51	20
11	141	166	153	99	50	55	78	71	26	30	57	21
12	137	218	151	120	47	54	59	75	31	18	53	17
13	137	190	121	113	45	55	46	71	30	22	55	11
14	135	243	112	95	43	54	41	65	23	21	58	11
15	131	251	107	97	32	112	25	57	24	17	53	10
16	131	235	110	96	36	790	36	45	20	23	45	15
17	196	212	114	88	41	703	27	43	21	29	46	21
18	200	223	110	78	40	526	22	42	20	32	43	32
19	184	178	105	68	28	365	18	44	21	35	45	64
20	226	171	98	62	22	274	9.5	42	17	31	45	92
21	174	168	94	63	90	212	7.5	38	18	30	47	83
22	160	163	84	61	221	219	4.1	37	20	26	39	71
23	151	154	71	62	291	197	3.0	19	16	24	38	70
24	146	152	63	63	289	198	1.4	26	14	25	36	62
25	147	154	67	60	245	225	1.2	41	9.7	22	36	74
26	146	158	65	52	203	279	62	129	22	16	36	46
27	116	155	58	47	169	289	20	31	25	15	38	32
28	78	159	55	47	144	245	18	25	32	11	41	32
29	82	154	52	44	---	208	1.9	31	50	9.2	45	34
30	83	152	103	42	---	176	1.0	36	44	6.4	39	34
31	88	---	128	41	---	150	---	27	---	5.1	32	---
TOTAL	4697	4901	3597	3938	2470	6243	1444.6	1210.25	676.7	990.7	1136.5	1078
MEAN	152	163	116	127	88.2	201	48.2	39.0	22.6	32.0	36.7	35.9
MAX	235	251	160	506	291	790	125	129	50	64	58	92
MIN	78	97	52	41	22	54	1.0	.75	9.7	5.1	4.3	10
AC-FT	9320	9720	7130	7810	4900	12380	2870	2400	1340	1970	2250	2140

CAL YR 1976	TOTAL	111917.00	MEAN 306	MAX 4340	MIN 52	AC-FT	222000	
WTR YR 1977	TOTAL	32382.75	MEAN 88.7	MAX 790	MIN .75	AC-FT	64230	

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL ANALYSES: Water years 1951 to current year. Published as "at Guerneville" in 1961-65.
BIOLOGICAL DATA: Water years 1975 to current year.
SPECIFIC CONDUCTANCE: Water years 1974 to current year.
WATER TEMPERATURES: Water years 1964 to current year.
SEDIMENT RECORDS: Water years 1966 to current year.
TURBIDITY: Water years 1967 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1973 to current year.
WATER TEMPERATURES: January 1964 to current year.
SEDIMENT RECORDS: April to September 1967, October 1969 to current year.

INSTRUMENTATION.--Specific conductance recorder since October 1973, at site 0.7 mi (1.1 km) downstream. Temperature recorder since January 1964.

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, 440 micromhos Feb. 15, 1976; minimum, 57 micromhos Nov. 4, 1973.
WATER TEMPERATURES: Maximum, 29.5°C June 26, 1973; minimum recorded, 4.5°C Dec. 15, 1967, Jan. 12, 1968.
SEDIMENT CONCENTRATIONS (water years 1970-77): Maximum daily mean, 2,350 mg/L Jan. 16, 1974; minimum daily mean, 3 mg/L on several days in 1972 and 1973.
SEDIMENT DISCHARGE (water years 1970-77): Maximum daily, 316,000 tons (287,000 tonnes) Jan. 16, 1974; minimum daily, 0.03 ton (0.03 tonne) May 6, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 605 micromhos Feb. 19, 20; minimum, 225 micromhos Mar. 16.
WATER TEMPERATURES: Maximum, 28.5°C June 6, 21, 22; minimum, 6.5°C several days during December and January.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 97 mg/L Mar. 16; minimum daily mean, 4 mg/L Nov. 30.
SEDIMENT DISCHARGE: Maximum daily, 219 tons (199 tonnes) Mar. 16; minimum daily, 0.03 ton (0.03 tonne) May 6.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	TUR-BID-ITY (NTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)
OCT												
05...	1120	158	161	299	7.8	18.5	6	--	--	--	--	--
NOV												
03...	1400	109	105	375	7.7	16.5	8	--	--	--	--	--
DEC												
01...	1225	154	154	300	7.4	9.0	5	--	--	--	--	--
27...	0945	58	60	374	7.4	7.0	5	--	--	--	--	--
FEB												
01...	0915	40	40	492	6.8	9.0	9	--	--	--	--	--
10...A	1445	58	57	424	7.3	12.0	--	--	6.5	--	--	--
MAR												
07...	1245	66	70	390	6.8	13.0	9	--	--	--	--	--
10...A	0930	60	58	441	7.3	12.0	--	--	7.8	--	--	--
APR												
12...	1140	59	67	401	9.0	18.5	--	--	--	--	--	--
14...A	0900	41	42	421	7.4	18.0	--	--	8.1	--	--	--
MAY												
06...B	1050	.75	.83	443	10.0	19.0	--	15	21.6	232	--	--
10...B	1420	62	73	345	9.6	16.5	--	16	18.7	189	30	--
19...A	1100	44	44	322	8.8	18.0	6	--	12.8	--	--	11
20...B	0905	42	45	328	9.3	19.0	--	9.2	14.5	156	--	--
24...B	1340	26	24	337	9.0	20.0	--	7.2	12.1	133	16	--
31...B	1430	27	14	364	8.6	24.5	--	4.6	9.3	111	--	--
JUN												
10...B	0935	18	18	333	7.9	21.5	--	6.5	5.4	61	5	--
14...B	1345	23	23	333	8.1	21.5	4	5.5	8.1	92	--	--
17...A	1030	21	22	355	7.6	20.5	--	--	7.2	--	--	--
24...B	0920	14	11	331	8.2	26.0	--	4.4	7.0	86	12	--
28...B	1345	32	27	328	8.2	25.5	--	3.7	7.2	89	--	--
JUL												
08...B	1000	51	53	301	8.1	24.0	--	4.9	7.7	92	13	--
12...B	1130	18	23	301	8.0	24.0	--	5.0	7.7	92	--	--
19...A	0930	35	41	318	8.0	24.0	--	--	7.3	--	--	--
21...B	1430	30	34	306	8.3	26.0	5	5.0	8.0	99	15	--
26...B	1330	16	16	305	8.2	26.0	--	4.8	8.6	106	--	--
AUG												
05...B	0915	11	12	289	8.1	26.0	--	3.9	6.9	85	12	--
09...B	1235	44	45	301	8.1	24.0	--	3.5	8.8	105	--	--
15...A	1015	53	57	288	7.6	22.0	--	--	7.5	--	--	--
18...B	1025	43	41	299	8.2	22.0	4	4.4	7.3	83	9	--
22...B	1345	39	34	258	8.2	25.0	--	3.6	8.0	96	--	--
30...B	1300	39	40	301	7.9	26.5	--	2.1	7.9	98	4	--
SEP												
06...B	1200	26	27	309	8.0	25.0	--	3.3	7.5	90	--	--
15...B	1045	10	10	300	8.2	21.0	--	1.8	8.3	93	11	--
15...A	1715	10	10	307	8.1	21.5	6	--	9.7	--	--	1
20...B	1220	92	101	293	8.0	20.5	--	3.0	8.2	90	--	--
28...B	1430	32	34	316	8.1	20.5	4	3.2	8.0	88	10	--

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM .7UM-MF (COL./ 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT												
05...	--	--	22	--	--	85	--	--	120	0	26	14
NOV												
03...	--	--	--	--	37	78	--	--	--	--	--	--
DEC												
01...	--	--	--	--	31	--	68	--	--	--	--	--
27...	--	--	--	--	B3	--	50	--	150	2	29	20
FEB												
01...	--	--	--	--	B5	--	B17	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
07...	--	--	--	--	22	--	35	--	150	11	30	18
10...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
12...	--	--	--	--	--	--	42	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
06...	--	430	--	40	B10	--	640	23	--	--	--	--
10...	--	2400	--	<30	90	--	--	1100	--	--	--	--
19...	3.6	--	--	--	--	--	--	--	150	11	30	--
20...	--	930	--	<30	B12	--	B21	240	--	--	--	--
24...	--	230	--	<30	B11	--	B7	21	--	--	--	--
31...	--	90	--	<30	B9	--	B14	15	--	--	--	--
JUN												
10...	--	150	--	<30	27	--	25	93	--	--	--	--
14...	--	430	--	<30	B8	--	14	43	150	14	30	19
17...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	2400	--	<30	42	--	36	150	--	--	--	--
28...	--	490	--	20	14	--	18	3300	--	--	--	--
JUL												
08...	--	790	--	270	26	--	19	20	--	--	--	--
12...	--	50	--	20	18	--	14	40	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	130	--	20	10	--	67	2	--	--	--	--
26...	--	70	--	50	B7	--	91	<2	--	--	--	--
AUG												
05...	--	540	--	17	B8	--	64	5	--	--	--	--
09...	--	920	--	49	27	--	21	110	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	140	--	31	14	--	21	350	--	--	--	--
22...	--	170	--	33	B8	--	54	540	--	--	--	--
30...	--	220	--	23	13	--	110	240	--	--	--	--
SEP												
06...	--	350	--	70	34	--	83	34	--	--	--	--
15...	--	79	--	2	B4	--	59	350	--	--	--	--
15...	1.6	--	--	--	--	--	--	--	140	1	14	--
20...	--	1600	--	1600	B390	--	B310	920	--	--	--	--
28...	--	130	--	20	25	--	39	140	140	4	26	17

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

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT												
05...	19	25	.7	2.6	150	0	120	14	18	.1	14	184
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
27...	25	26	.9	3.2	180	0	150	20	31	.1	19	237
FEB												
01...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
07...	22	24	.8	3.3	170	0	140	24	25	.1	16	235
10...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
12...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
06...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
19...	15	--	--	--	170	0	140	--	12	--	--	195
20...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
10...	--	--	--	--	--	--	--	--	--	--	--	--
14...	12	14	.4	1.6	170	0	140	17	9.4	.1	13	196
17...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
08...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
05...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
06...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	12	--	--	--	170	0	140	--	8.7	--	--	182
20...	--	--	--	--	--	--	--	--	--	--	--	--
28...	11	15	.4	1.6	160	0	130	10	8.9	.2	13	168

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SUS-PENDED SOLIDS (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)
OCT												
05...	182	.25	78.5	--	--	--	--	--	.55	--	--	--
NOV												
03...	--	--	--	--	--	--	--	--	1.4	--	--	--
DEC												
01...	--	--	--	--	--	--	--	--	.60	--	--	--
27...	236	.32	37.1	--	--	--	--	--	.61	--	--	--
FEB												
01...	--	--	--	--	--	--	--	--	.42	--	--	--
10...	--	--	--	--	--	.47	--	.09	--	--	2.5	--
MAR												
07...	222	.32	41.9	--	--	--	--	--	.86	--	--	--
10...	--	--	--	--	--	1.1	--	.09	--	--	3.2	--
APR												
12...	--	--	--	--	--	--	--	--	1.2	--	--	--
14...	--	--	--	--	--	.88	--	.09	--	--	1.0	--
MAY												
06...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	<.10	--	--	--	.05	--	--	--
19...	--	.27	23.2	22	--	.01	--	.00	--	--	.01	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	<.10	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
10...	--	--	--	--	<.10	--	--	--	--	--	--	--
14...	186	.27	12.2	--	--	--	--	--	.01	--	--	--
17...	--	--	--	--	--	.02	--	.00	--	--	.03	--
24...	--	--	--	--	.00	.01	.02	.00	.01	.01	.04	.00
28...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
08...	--	--	--	--	.00	.00	.00	.00	.00	.00	.01	.01
12...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	.00	--	.00	--	--	.02	--
21...	--	--	--	--	.00	.02	.02	.00	.01	.02	.00	.03
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
05...	--	--	--	--	.00	.00	.01	.00	.00	.00	.00	.01
09...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	.01	--	.00	--	--	.02	--
18...	--	--	--	--	.00	.01	.01	.00	.01	.01	.01	.00
22...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	.00	.00	.01	.00	.01	.00	.01	.01
SEP												
06...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	.02	.01	.01	.00	.03	.01	.00	.02
15...	--	.25	4.91	10	--	.01	--	.01	--	--	.02	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
28...	167	.23	14.5	--	.01	.05	.01	.00	.02	.05	.01	.00

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL ORTHO + HYDRO. PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC PHOS-PHORUS (P) (MG/L)
OCT												
05...	--	--	.71	--	1.3	.82	--	--	--	--	--	--
NOV												
03...	--	--	1.9	--	3.3	1.2	--	--	--	--	--	--
DEC												
01...	--	--	1.3	--	1.9	.73	--	--	--	--	--	--
27...	--	--	3.6	--	4.2	1.4	--	--	--	--	--	--
FEB												
01...	--	--	.39	--	.81	2.9	--	--	--	--	--	--
10...	2.4	--	--	--	--	2.4	--	--	1.6	4.9	--	--
MAR												
07...	--	--	1.9	--	2.8	1.1	--	--	--	--	--	--
10...	.90	--	--	--	--	1.2	--	--	.98	3.0	--	--
APR												
12...	--	--	3.3	--	4.5	1.4	--	1.2	--	--	1.4	.00
14...	.80	--	--	--	--	1.0	--	--	.96	2.9	--	--
MAY												
06...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	1.4	--	1.5	.41	--	--	--	--	--	--
19...	.60	--	--	--	--	.24	--	--	.14	.43	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	.40	--	--	<.33	<1.0	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
10...	--	--	.60	--	--	<.33	<1.0	--	--	--	--	--
14...	--	--	.25	--	.26	.23	--	--	--	--	--	--
17...	.30	--	--	--	--	.21	--	--	.13	.40	--	--
24...	.22	.20	.26	.20	.27	.22	--	--	.14	.43	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
08...	.20	.04	.21	.05	.21	.07	--	--	.07	.21	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
19...	.10	--	--	--	--	.06	--	--	.03	.09	--	--
21...	.23	.13	.23	.16	.24	.10	--	--	.08	.25	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
05...	.19	.04	.19	.05	.19	.15	--	--	.11	.34	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
15...	.20	--	--	--	--	.05	--	--	.02	.06	--	--
18...	.16	.05	.17	.05	.18	.05	--	--	.02	.06	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
30...	.23	.06	.24	.07	.25	.06	--	--	.04	.12	--	--
SEP												
06...	--	--	--	--	--	--	--	--	--	--	--	--
15...	.17	.01	.17	.03	.20	.06	--	--	.06	.18	--	--
15...	.20	--	--	--	--	.03	--	--	.01	.03	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	.15	--	.15	--	.07	--	--	.06	.18	--	--

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	SUS-PENDED BARIUM (BA) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
OCT											
05...	1120	3	1	2	--	--	--	--	<10	<9	1
DEC											
27...	0945	2	2	0	--	--	--	--	<10	<10	0
MAR											
07...	1245	1	0	2	--	--	--	--	<10	<10	0
MAY											
19...A	1100	--	--	0	--	--	100	--	--	--	0
JUN											
14...B	1345	2	1	1	--	--	--	--	<10	<9	1
SEP											
15...B	1715	--	--	0	--	--	100	800	--	--	10
28...B	1430	0	0	2	100	0	100	--	<10	<10	0

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT											
05...	0	0	0	<50	<50	0	<10	<8	2	440	20
DEC											
27...	0	0	0	<50	<48	2	17	14	3	350	20
MAR											
07...	0	0	0	<50	<50	0	<10	<9	1	580	40
MAY											
19...	--	--	0	--	--	--	--	--	--	--	30
JUN											
14...	10	--	0	<50	<50	0	<10	<9	1	400	50
SEP											
15...	--	--	0	--	--	--	--	--	0	--	20
28...	10	10	0	<50	<50	0	<10	<8	2	300	10

DATE	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)
OCT										
05...	<100	<97	3	30	20	10	.4	.3	.1	0
DEC										
27...	<100	<100	0	180	20	160	.1	.0	.2	0
MAR										
07...	<100	<100	0	160	--	140	.1	--	.0	0
MAY										
19...	--	--	0	--	--	20	.0	--	--	--
JUN										
14...	<100	<96	4	80	70	10	.0	--	.0	0
SEP										
15...	--	--	0	--	--	20	.0	--	--	--
28...	<100	<99	1	30	20	10	.0	.0	.0	0

DATE	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	SUS-PENDED SILVER (AG) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT										
05...	0	0	--	--	--	10	0	10	4.0	--
DEC										
27...	0	0	--	--	--	10	0	10	4.1	--
MAR										
07...	0	0	--	--	--	10	0	10	4.3	--
MAY										
19...	--	0	--	--	--	--	--	--	6.8	.00
JUN										
14...	0	0	--	--	--	0	--	0	3.8	--
SEP										
15...	--	0	--	--	--	--	--	--	1.6	.00
28...	0	0	<10	<10	0	10	10	0	1.3	--

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 5,76	NOV 3,76	DEC 1,76	DEC 27,76	FEB 1,77
TIME	1120	1400	1225	0945	0915
TOTAL CELLS/ML	23000	4800	130	7200	15000
DIVERSITY: DIVISION	1.5	0.7	1.5	0.6	1.2
.CLASS	1.5	0.7	1.5	0.6	1.2
..ORDER	1.9	1.5	1.5	1.5	1.2
...FAMILY	2.1	1.8	2.4	1.7	1.2
....GENUS	2.4	1.8	2.5	1.7	1.3

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE										
....COELASTRUM	770	3	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	5	4	--	-	--	-
...MICRACTINIACEAE										
....GOLENKINIA	--	-	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	*	0	--	-	--	-	--	-	--	-
....CHODATELLA	--	-	--	-	--	-	--	-	--	-
....CLOSTERIOPSIS	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	580	2	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	2000	9	660	14	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	970	4	370	8	11	9	--	-	--	-
....TETRASTRUM	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	2200	10	3100#	64	--	-	--	-	1000	7
...PHACOTACEAE										
....PTEROMONAS	--	-	--	-	--	-	--	-	--	-
...VOLVOCACEAE										
....GONIUM	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	--	-	--	-	--	-	--	-	--	-
..CHLOROCOCCALES										
...OOCYSTACEAE										
....GLOEOACTINIUM	580	2	--	-	--	-	--	-	--	-

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 5,76		NOV 3,76		DEC 1,76		DEC 27,76		FEB 1,77	
TIME	1120		1400		1225		0945		0915	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	1400	6	250	5	--	-	--	-	--	-
....MELOSIRA	190	1	--	-	--	-	87	1	*	0
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	3	2	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE										
....AMPHORA	--	-	--	-	--	-	--	-	*	0
....CYMBELLA	--	-	--	-	--	-	--	-	--	-
....EPITHEMIA	--	-	--	-	--	-	87	1	--	-
....RHOPALODIA	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....FRAGILARIA	--	-	31	1	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	5	4	--	-	*	0
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	3	2	130	2	--	-
...MERIDIONACEAE										
....MERIDION	--	-	--	-	--	-	43	1	--	-
...NAVICULACEAE										
....CALONEIS	--	-	--	-	--	-	--	-	--	-
....NAVICULA	190	1	120	3	36#	28	170	2	*	0
....PINNULARIA	--	-	--	-	3	2	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	*	0	250	5	11	9	480	7	130	1
...SURIRELLACEAE										
....CYMATOPLEURA	--	-	--	-	--	-	--	-	--	-
....SURIRELLA	--	-	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....DINOBRYON	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....ANACYSTIS	13000#	56	--	-	--	-	3200#	44	--	-
..HORMOGONALES										
...NOSTOCACEAE										
....APHANIZOMENON	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	--	-	3	2	3000#	42	9700#	65
....SPIRULINA	--	-	--	-	--	-	--	-	*	0
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	680	3	31	1	--	-	--	-	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	390	2	31	1	47#	37	--	-	4000#	27
....LEPOCINCLIS	--	-	--	-	--	-	--	-	--	-
....PHACUS	190	1	--	-	--	-	--	-	*	0
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	--	-	--	-

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

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	APR 12,77	MAY 10,77	JUN 10,77	JUN 14,77	JUL 8,77
TIME	1140	1420	0935	1345	1000
TOTAL CELLS/ML	19000	110000	21000	11000	13000
DIVERSITY: DIVISION	1.0	1.0	1.3	0.5	1.6
.CLASS	1.0	1.0	1.3	0.5	1.6
..ORDER	1.0	1.1	1.6	0.6	2.0
...FAMILY	1.0	1.4	2.7	1.8	2.2
....GENUS	1.1	1.5	3.7	2.9	2.9

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	310	1	--	-	--	-
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	*	0	--	-	*	0	--	-
...MICRACTINIACEAE										
....GOLENKINIA	--	-	*	0	310	1	--	-	--	-
....MICRACTINIUM	160	1	8700	8	3000	14	800	7	450	4
...OOCYSTACEAE										
....ANKISTRODESMUS	330	2	2600	2	1100	5	1100	9	--	-
....CHODATELLA	--	-	--	-	--	-	--	-	75	1
....CLOSTERIOPSIS	--	-	--	-	520	2	*	0	--	-
....DICTYOSPHAERIUM	--	-	*	0	--	-	3600#	31	--	-
....KIRCHNERIELLA	--	-	*	0	520	2	--	-	150	1
....OOCYSTIS	--	-	--	-	410	2	560	5	--	-
....SELENASTRUM	--	-	--	-	--	-	80	1	--	-
....TETRAEDRON	160	1	--	-	--	-	80	1	--	-
....TREUBARIA	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	1700	2	4600#	22	2800#	24	--	-
....SCENEDESMUS	--	-	6800	6	2300	11	1300	11	600	5
....TETRASTRUM	--	-	--	-	*	0	160	1	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	--	-	--	-	--	-	380	3
....CHLAMYDOMONAS	--	-	--	-	--	-	80	1	--	-
...PHACOTACEAE										
....PTEROMONAS	--	-	*	0	--	-	--	-	--	-
...VOLVOCACEAE										
....GONIUM	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	--	-	--	-	--	-	--	-	--	-
..CHLOROCOCCALES										
...OOCYSTACEAE										
....GLOEOACTINIUM	--	-	--	-	--	-	--	-	--	-

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

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	APR 12,77		MAY 10,77		JUN 10,77		JUN 14,77		JUL 8,77	
TIME	1140		1420		0935		1345		1000	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	990	5	81000#	76	3200	15	240	2	4200#	32
....MELOSIRA	--	-	*	0	1000	5	--	-	2300#	18
....STEPHANODISCUS	--	-	--	-	720	3	--	-	230	2
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE										
....AMPHORA	--	-	*	0	--	-	*	0	--	-
....CYMBELLA	--	-	--	-	--	-	*	0	--	-
....EPITHEMIA	--	-	--	-	--	-	*	0	--	-
....RHOPALODIA	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	--	-	--	-	--	-	--	-	*	0
...FRAGILARIACEAE										
....FRAGILARIA	--	-	*	0	210	1	*	0	--	-
....SYNEDRA	--	-	*	0	310	1	*	0	75	1
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	--	-	--	-
...MERIDIONACEAE										
....MERIDION	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....CALONEIS	--	-	*	0	--	-	*	0	230	2
....NAVICULA	--	-	*	0	*	0	160	1	450	4
....PINNULARIA	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	160	1	850	1	520	2	360	3	75	1
...SURIRELLACEAE										
....CYMATOPLEURA	--	-	--	-	*	0	--	-	--	-
....SURIRELLA	--	-	--	-	*	0	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....DINOBRYON	--	-	--	-	210	1	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCACEAE										
....ANACYSTIS	--	-	2900	3	820	4	--	-	1200	9
..HORMOGONALES										
...NOSTOCACEAE										
....APHANIZOMENON	--	-	*	0	--	-	--	-	--	-
...OSCILLATORIACEAE										
....OSCILLATORIA	1600	9	850	1	--	-	--	-	--	-
....SPIRULINA	--	-	--	-	--	-	--	-	--	-
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	620	3	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	--	-	2500#	19
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	*	0	--	-	--	-	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	15000#	81	*	0	--	-	--	-	--	-
....LEPOCINCLIS	--	-	--	-	--	-	*	0	--	-
....PHACUS	160	1	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	*	0	210	1	120	1	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...PERIDINIACEAE										
....PERIDINIUM	--	-	*	0	--	-	*	0	--	-

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

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	JUL 21,77	AUG 5,77	AUG 22,77	AUG 30,77	SEP 28,77
TIME	1400	0915	1345	1300	1430
TOTAL CELLS/ML	1100	3600	370	550	380
DIVERSITY: DIVISION	1.1	0.8	1.2	1.5	0.5
.CLASS	1.1	0.8	1.2	1.6	0.5
..ORDER	1.8	1.0	1.7	2.3	1.4
...FAMILY	2.5	1.1	2.5	3.6	1.9
....GENUS	2.7	1.2	2.8	3.7	2.6

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	5	1	--	-
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	64	12	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE										
....GOLENKINIA	--	-	--	-	--	-	--	-	--	-
....MICRACTINIUM	77	7	67	2	--	-	--	-	18	5
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	33	1	12	3	5	1	--	-
....CHODATELLA	--	-	--	-	--	-	--	-	--	-
....CLOSTERIOPSIS	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	4	1	--	-	--	-
....TREUBARIA	19	2	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	50	1	--	-	--	-	--	-
....SCENEDESMUS	270#	25	100	3	--	-	21	4	--	-
....TETRASTRUM	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	6	1	--	-	--	-	16	3	14	4
...PHACOTACEAE										
....PTEROMONAS	--	-	--	-	--	-	--	-	--	-
...VOLVOCACEAE										
....GONIUM	38	4	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	--	-	--	-	--	-	--	-	5	1
..CHLOROCOCCALES										
...OOCYSTACEAE										
....GLOEOACTINIUM	--	-	--	-	--	-	--	-	--	-

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11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	JUL 21,77		AUG 5,77		AUG 22,77		AUG 30,77		SEP 28,77	
TIME	1400		0915		1345		1300		1430	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	58	5	*	0	24	6	80	15	170#	45
....MELOSIRA	380#	36	3000#	83	110#	30	--	-	18	5
....STEPHANODISCUS	--	-	--	-	--	-	--	-	32	8
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	4	1	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-	9	2
...CYMBELLACEAE										
....AMPHORA	13	1	--	-	4	1	5	1	--	-
....CYMBELLA	--	-	*	0	--	-	5	1	14	4
....EPITHEMIA	--	-	--	-	4	1	--	-	--	-
....RHOPALODIA	--	-	--	-	--	-	27	5	--	-
...DIATOMACEAE										
....DIATOMA	32	3	--	-	--	-	21	4	--	-
...FRAGILARIACEAE										
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	42	1	--	-	48	9	5	1
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	--	-	--	-
...MERIDIONACEAE										
....MERIDION	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....CALONEIS	--	-	--	-	--	-	--	-	--	-
....NAVICULA	120	11	--	-	20	5	91#	17	77#	20
....PINNULARIA	--	-	--	-	--	-	--	-	9	2
...NITZSCHIACEAE										
....NITZSCHIA	19	2	*	0	28	8	43	8	5	1
...SURIRELLACEAE										
....CYMATOPLEURA	--	-	--	-	--	-	--	-	5	1
....SURIRELLA	--	-	--	-	12	3	11	2	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....DINOBRYON	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCACEAE										
....ANACYSTIS	--	-	180	5	--	-	27	5	--	-
..HORMOGONALES										
...NOSTOCACEAE										
....APHANIZOMENON	--	-	--	-	44	12	--	-	--	-
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	83	2	100#	28	53	10	--	-
....SPIRULINA	--	-	--	-	--	-	--	-	--	-
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	16	3	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	13	1	--	-	--	-	11	2	--	-
....LEPOCINCLIS	--	-	--	-	--	-	--	-	--	-
....PHACUS	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	19	2	*	0	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
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11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
June 10	0935	1.9	110	104	0.397	0.025	15110
July 8	1000	.2	134	132	.123	.126	16260
Aug. 5	0915	3.4	125	122	.055	.013	54550
Aug. 30	1300	1.5	109	106	.000	.000	--
Sept. 28	1430	1.6	76.0	72.7	.138	.038	23910

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Nov. 3	29	17.0	14.2	5.59	5.16	496	Polyethylene strip
Jan. 23	31	16.1	13.8	34.3	8.58	65.0	Polyethylene strip
July 21	38	--	--	1.99	1.23	--	Polyethylene strip
Sept. 6	29	9.53	7.17	1.72	.067	1372	Polyethylene strip

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	320	315	320	320	315	315	400	335	375
2	---	---	---	315	310	310	320	320	320	410	285	370
3	---	---	---	310	305	310	320	320	320	320	285	275
4	---	---	---	300	300	300	320	320	320	380	330	350
5	---	---	---	325	300	315	320	320	320	380	375	375
6	320	310	315	330	330	330	320	320	320	375	365	370
7	320	315	320	330	330	330	320	320	320	375	360	365
8	325	320	320	330	330	330	325	320	320	375	370	370
9	325	325	325	330	330	330	325	320	320	375	370	375
10	330	325	330	335	330	335	340	320	330	395	375	380
11	330	325	325	400	295	325	335	325	330	400	390	395
12	330	325	330	405	260	290	325	325	325	475	395	410
13	330	325	330	295	265	285	345	325	330	475	315	460
14	330	300	320	365	275	315	355	345	350	385	345	370
15	300	295	295	295	265	285	375	355	370	415	385	400
16	300	285	295	320	295	305	425	375	385	435	415	430
17	310	300	305	335	320	330	435	425	430	430	430	430
18	310	300	305	330	325	325	435	405	430	435	420	430
19	305	295	300	340	330	335	430	415	420	420	410	415
20	295	290	295	340	325	330	415	395	405	435	410	430
21	290	285	290	350	345	350	410	400	405	430	430	430
22	295	290	295	340	330	335	410	405	405	450	430	440
23	290	290	290	335	330	330	420	370	390	450	445	445
24	295	290	290	345	335	345	385	365	375	455	440	450
25	295	290	290	355	325	345	425	385	415	450	450	450
26	295	290	295	325	310	315	435	410	430	465	445	455
27	295	290	295	310	305	310	450	440	445	490	460	470
28	300	290	295	315	310	310	465	440	455	495	495	495
29	295	285	290	315	315	315	460	440	455	525	500	505
30	305	295	300	315	315	315	560	440	485	540	520	535
31	315	300	310	---	---	---	540	325	360	545	540	540
MONTH	330	285	306	405	260	320	560	315	374	545	285	419

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	545	535	540	385	380	380	350	335	345	360	345	355
2	535	525	535	395	385	390	360	350	360	575	360	495
3	520	505	515	415	405	410	370	360	360	555	370	460
4	505	500	500	415	400	405	370	365	365	370	340	360
5	500	480	490	410	410	410	385	365	370	370	340	350
6	475	470	475	420	410	410	400	385	395	360	340	345
7	465	455	460	430	420	430	400	380	395	355	340	350
8	465	440	450	435	420	430	380	375	380	390	340	370
9	490	425	460	450	445	450	405	385	390	365	340	345
10	425	390	400	450	450	450	440	405	430	370	360	365
11	390	375	385	450	440	445	445	435	440	380	330	360
12	400	375	390	460	445	450	450	420	430	340	320	330
13	445	390	435	450	440	445	430	410	420	330	320	325
14	455	425	445	440	430	430	430	410	420	330	320	325
15	455	410	450	430	395	420	410	385	400	330	320	325
16	525	425	515	435	225	285	385	330	360	330	320	325
17	510	495	510	320	270	305	415	350	395	330	320	325
18	530	510	520	340	325	335	415	380	395	335	320	330
19	605	505	540	340	335	340	400	375	390	340	320	325
20	605	475	560	340	330	335	395	365	385	335	325	330
21	505	470	430	350	330	335	395	370	385	340	330	335
22	495	355	395	350	330	335	390	365	380	345	325	335
23	370	345	360	330	330	330	390	370	385	340	320	330
24	355	340	350	340	330	335	395	370	385	340	320	330
25	360	355	360	360	340	355	400	370	380	325	320	325
26	360	345	360	350	330	340	380	340	365	330	320	325
27	370	345	360	340	330	335	350	335	340	345	320	330
28	375	355	365	340	335	340	360	355	355	355	340	350
29	---	---	---	335	325	330	365	350	360	370	355	365
30	---	---	---	335	330	330	360	350	355	360	345	345
31	---	---	---	340	330	335	---	---	---	350	340	345
MONTH	605	340	448	460	225	376	450	330	384	575	320	349

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	345	340	340	310	300	305	290	290	290	295	290	295
2	345	340	340	300	300	300	295	285	290	295	290	295
3	340	335	335	300	295	300	290	280	285	295	295	295
4	325	320	320	300	295	295	290	280	285	295	295	295
5	330	320	325	295	295	295	285	280	285	295	290	295
6	325	320	320	300	295	295	285	280	280	295	290	295
7	325	320	325	310	300	305	290	280	285	305	295	300
8	330	320	330	305	300	300	285	280	285	305	300	300
9	330	325	325	310	300	305	285	280	285	305	295	300
10	330	325	330	310	300	300	290	285	290	310	300	305
11	330	320	325	310	300	305	290	280	285	310	300	305
12	320	320	320	310	300	305	285	280	285	305	300	305
13	330	320	325	310	300	305	290	290	290	310	305	310
14	330	325	330	305	295	300	290	285	290	315	310	310
15	330	320	330	300	295	300	290	285	285	310	300	310
16	335	325	330	300	290	300	290	285	285	305	300	305
17	330	330	330	295	290	295	290	290	290	305	300	300
18	335	330	330	295	285	290	290	285	290	300	300	300
19	330	330	330	290	290	290	290	290	290	300	260	310
20	330	320	325	290	275	280	295	290	295	410	300	330
21	325	310	320	280	280	280	295	290	295	450	395	420
22	320	310	310	280	280	280	295	290	295	390	330	360
23	315	310	310	280	280	280	295	290	295	330	320	330
24	315	310	315	280	280	280	295	290	295	---	---	---
25	310	305	305	280	275	280	300	295	295	---	---	---
26	320	310	315	280	275	280	300	290	295	---	---	---
27	315	310	310	280	275	280	300	290	295	---	---	---
28	310	310	310	285	280	280	295	290	295	---	---	---
29	310	310	310	285	280	285	295	290	295	---	---	---
30	310	305	310	290	280	285	295	290	295	---	---	---
31	---	---	---	290	290	290	295	295	295	---	---	---
MONTH	345	305	323	310	275	293	300	280	290	---	---	---

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	19.5	15.0	12.0	9.0	8.0	9.0	8.0	12.5	9.0	14.5	11.5
2	19.5	18.5	15.0	12.5	9.5	8.0	9.5	9.0	10.5	8.5	13.5	10.5
3	20.5	18.0	16.5	12.0	10.0	8.5	10.0	9.5	---	---	14.0	11.0
4	20.5	18.0	14.5	12.0	10.0	9.0	9.5	8.0	---	---	14.5	10.5
5	21.0	18.0	14.5	12.0	10.0	8.5	9.5	8.0	---	---	14.5	10.5
6	21.5	18.5	14.5	12.5	10.0	8.5	9.0	6.5	12.0	8.0	14.5	10.5
7	22.0	19.0	14.5	12.5	10.0	8.5	8.5	7.0	12.0	9.5	13.5	12.5
8	22.0	19.0	14.0	12.0	9.5	8.5	9.0	7.5	12.5	10.5	14.5	13.0
9	22.5	18.5	14.0	12.0	9.5	8.5	9.0	7.5	12.5	10.5	14.5	13.5
10	21.0	19.0	14.0	13.0	9.5	8.0	9.0	7.0	13.0	10.0	15.0	11.0
11	21.0	18.0	14.5	13.5	9.5	8.0	9.5	7.5	13.5	10.0	14.5	11.0
12	20.5	17.5	14.5	13.0	9.5	8.0	10.0	8.5	14.0	11.0	14.0	11.5
13	20.5	17.0	13.5	13.0	9.0	8.0	10.0	9.0	16.0	12.0	14.5	11.0
14	20.0	17.0	13.5	13.0	9.0	7.0	10.0	9.0	17.5	12.0	13.5	11.0
15	19.5	16.5	14.0	13.0	9.0	7.0	9.5	9.0	17.5	12.0	12.0	11.5
16	19.0	16.0	15.0	14.0	8.5	7.0	9.5	8.5	15.5	12.0	11.5	10.0
17	18.0	16.0	15.5	14.5	8.5	6.5	9.0	8.0	16.0	12.0	12.0	9.5
18	18.0	15.5	16.0	14.5	8.5	6.5	9.0	7.5	15.5	11.5	13.5	11.5
19	18.0	15.0	15.5	14.5	8.5	6.5	9.0	7.5	15.0	12.0	14.5	12.5
20	16.5	15.0	14.5	14.0	8.5	6.5	9.5	7.5	13.5	12.5	16.5	14.0
21	16.0	14.5	14.0	13.0	8.5	7.0	10.5	8.5	13.5	12.0	18.0	14.0
22	16.0	14.5	13.5	13.0	8.5	7.5	11.5	9.5	13.5	11.5	18.0	14.5
23	15.5	14.0	13.5	12.5	9.0	8.0	11.5	9.0	14.0	12.5	17.0	15.0
24	15.0	14.0	13.0	12.5	9.0	7.0	12.0	9.5	13.5	11.5	15.5	14.5
25	15.5	14.0	12.5	12.0	9.0	7.5	12.0	9.5	13.5	11.0	16.0	13.0
26	15.0	13.5	12.5	11.0	8.5	6.5	11.0	9.5	13.5	11.0	17.0	13.0
27	14.5	12.0	11.0	9.5	8.5	6.5	11.0	9.0	14.0	11.5	18.0	14.0
28	14.5	11.5	10.0	8.5	8.5	7.0	10.5	9.0	14.0	12.0	17.0	13.5
29	13.5	11.5	9.5	8.0	8.5	7.0	10.0	9.0	---	---	17.0	12.5
30	14.0	11.5	9.5	8.0	8.5	8.5	10.0	9.5	---	---	15.5	12.5
31	14.5	11.5	---	---	9.5	8.0	11.5	9.5	---	---	16.5	12.0
MONTH	22.5	11.5	16.5	8.0	10.0	6.5	12.0	6.5	17.5	8.0	18.0	9.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	13.0	20.0	17.0	25.5	22.5	25.0	23.5	26.5	25.0	24.0	22.5
2	17.5	13.5	20.5	17.0	25.0	22.0	25.0	23.0	26.5	24.5	23.0	21.5
3	18.5	14.0	20.0	18.0	24.5	22.0	25.5	22.0	25.5	24.0	24.0	21.5
4	18.5	14.5	21.5	17.5	25.5	22.0	25.5	22.5	25.0	23.5	25.0	22.5
5	19.0	15.5	19.0	17.5	27.5	23.5	25.0	21.5	26.0	23.0	25.0	23.5
6	19.5	17.0	19.0	16.0	28.5	25.0	25.5	22.0	23.5	22.5	25.5	23.5
7	18.0	16.0	18.0	15.5	27.0	25.5	25.5	22.0	24.5	21.5	25.0	22.5
8	18.0	15.5	19.0	16.0	26.0	24.5	25.5	22.5	24.5	23.0	24.5	22.0
9	18.0	15.0	18.0	16.0	24.5	22.0	25.5	23.0	24.0	22.5	24.0	22.0
10	18.0	18.0	17.0	15.5	22.0	19.5	25.0	23.5	25.0	22.5	23.0	21.5
11	18.0	15.5	17.0	15.0	23.0	19.0	25.5	23.5	24.5	22.5	22.5	21.0
12	---	---	18.5	15.5	22.5	21.0	25.0	23.0	24.5	22.5	22.0	20.5
13	---	---	20.0	15.5	21.5	20.0	24.5	22.5	24.0	22.0	22.0	20.5
14	21.0	15.5	20.5	16.5	22.5	20.0	25.0	22.0	24.5	21.5	22.0	21.0
15	23.0	16.0	20.0	17.5	23.0	20.5	26.0	22.5	24.5	21.5	21.5	20.0
16	22.5	16.5	20.0	17.5	22.5	20.5	26.0	23.0	24.0	22.0	20.0	18.5
17	24.0	16.5	21.0	17.5	22.0	20.5	25.5	23.0	23.5	22.5	19.0	18.5
18	23.0	17.0	20.0	17.0	22.5	20.0	25.5	24.0	24.5	22.0	20.0	19.0
19	24.0	14.5	21.5	17.0	24.0	20.5	25.0	24.0	24.5	22.5	21.0	19.0
20	24.0	13.0	22.5	19.0	25.0	21.0	25.5	23.5	24.5	22.5	21.5	19.0
21	---	---	22.5	20.0	28.5	23.0	26.0	23.5	25.0	22.5	22.0	19.0
22	---	---	21.5	18.5	28.5	25.5	25.5	23.5	25.0	22.5	22.0	19.0
23	---	---	20.0	18.0	28.0	25.5	25.5	23.5	25.0	23.0	22.0	19.0
24	19.5	17.0	21.0	18.5	27.5	25.0	24.5	23.0	24.5	23.5	22.5	20.0
25	20.0	15.0	20.5	19.0	27.0	25.5	25.0	23.0	24.0	22.5	22.0	19.5
26	20.5	17.0	20.0	18.5	27.0	25.0	26.0	23.0	24.5	22.0	22.0	20.0
27	19.5	18.5	21.5	18.5	26.0	23.5	26.0	23.5	25.0	22.5	21.5	20.5
28	19.5	17.5	22.5	19.0	25.5	23.5	27.0	24.0	26.0	23.5	20.5	20.0
29	18.5	17.0	22.5	19.5	25.5	22.5	27.0	24.5	26.5	24.0	21.5	20.0
30	19.0	17.0	24.0	20.5	25.0	23.0	27.0	25.0	26.5	24.0	21.5	19.5
31	---	---	25.0	22.0	---	---	26.5	25.5	25.5	23.5	---	---
MONTH	24.0	13.0	25.0	15.0	28.5	19.0	27.0	21.5	26.5	21.5	25.5	18.5

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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	176	10	4.8	97	12	3.1	154	6	2.5
2	235	14	8.9	102	11	3.0	156	8	3.4
3	204	13	7.2	109	10	2.9	155	9	3.8
4	188	13	6.6	120	11	3.6	156	11	4.6
5	158	14	6.0	124	11	3.7	160	13	5.6
6	157	13	5.5	136	12	4.4	159	13	5.6
7	155	12	5.0	142	12	4.6	159	10	4.3
8	149	11	4.4	138	12	4.5	159	6	2.6
9	143	10	3.9	140	11	4.2	158	6	2.6
10	143	9	3.5	137	10	3.7	160	6	2.6
11	141	9	3.4	166	15	6.7	153	6	2.5
12	137	8	3.0	218	25	15	151	6	2.4
13	137	7	2.6	190	21	11	121	6	2.0
14	135	7	2.6	243	30	20	112	6	1.8
15	131	6	2.1	251	28	19	107	7	2.0
16	131	6	2.1	235	21	13	110	7	2.1
17	196	7	3.7	212	18	10	114	7	2.2
18	200	7	3.8	223	20	12	110	7	2.1
19	184	6	3.0	178	18	8.7	105	7	2.0
20	226	11	6.7	171	16	7.4	98	7	1.9
21	174	9	4.2	168	16	7.3	94	7	1.8
22	160	9	3.9	163	14	6.2	84	7	1.6
23	151	9	3.7	154	12	5.0	71	7	1.3
24	146	9	3.5	152	10	4.1	63	7	1.2
25	147	9	3.6	154	9	3.7	67	7	1.3
26	146	8	3.2	158	8	3.4	65	7	1.2
27	116	8	2.5	155	7	2.9	58	7	1.1
28	78	7	1.5	159	6	2.6	55	6	.89
29	82	6	1.3	154	5	2.1	52	6	.84
30	83	9	2.0	152	4	1.6	103	10	2.8
31	88	12	2.9	---	---	---	128	10	3.5
TOTAL	4697	---	121.1	4901	---	199.4	3597	---	76.13

	JANUARY			FEBRUARY			MARCH		
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	95	9	2.3	40	11	1.2	130	13	4.6
2	303	54	68	39	11	1.2	117	12	3.8
3	506	82	119	34	10	.92	105	11	3.1
4	432	35	41	32	8	.69	95	12	3.1
5	302	18	15	31	8	.67	88	13	3.1
6	233	12	7.5	30	10	.81	81	12	2.6
7	174	10	4.7	28	15	1.1	66	12	2.1
8	151	9	3.7	45	16	1.9	58	12	1.9
9	132	8	2.9	97	20	5.2	57	12	1.8
10	112	8	2.4	58	17	2.7	60	12	1.9
11	99	8	2.1	50	16	2.2	55	13	1.9
12	120	14	4.5	47	13	1.6	54	15	2.2
13	113	10	3.1	45	12	1.5	55	16	2.4
14	95	7	1.8	43	12	1.4	54	15	2.2
15	97	7	1.8	32	12	1.0	112	27	13
16	96	6	1.6	36	15	1.5	790	97	219
17	88	6	1.4	41	20	2.2	703	67	127
18	78	6	1.3	40	18	1.9	526	51	72
19	68	7	1.3	28	15	1.1	365	36	35
20	62	7	1.2	22	15	.89	274	22	16
21	63	7	1.2	90	25	7.2	212	14	8.0
22	61	8	1.3	221	34	20	219	12	7.1
23	62	8	1.3	291	26	20	197	12	6.4
24	63	7	1.2	289	20	16	198	12	6.4
25	60	6	.97	245	17	11	225	14	8.5
26	52	5	.70	203	16	8.8	279	19	14
27	47	5	.63	169	16	7.3	289	17	13
28	47	5	.63	144	15	5.8	245	16	11
29	44	5	.59	---	---	---	208	16	9.0
30	42	8	.91	---	---	---	176	16	7.6
31	41	13	1.4	---	---	---	150	15	6.1
TOTAL	3938	---	297.43	2470	---	127.78	6243	---	615.8

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	125	14	4.7	7.4	23	.75	24	11	.71
2	120	14	4.5	40	28	3.2	21	10	.57
3	115	14	4.3	21	24	1.4	19	10	.51
4	97	14	3.7	7.9	18	.38	22	9	.53
5	99	14	3.7	2.7	15	.11	23	9	.56
6	88	13	3.1	.75	14	.03	18	9	.44
7	75	11	2.2	2.5	16	.34	16	8	.35
8	73	11	2.2	30	43	3.5	18	8	.39
9	88	11	2.6	41	30	3.3	14	8	.30
10	83	11	2.5	62	35	5.9	18	9	.44
11	78	11	2.3	71	30	5.8	26	10	.70
12	59	10	1.6	75	28	5.7	31	10	.84
13	46	10	1.2	71	26	5.0	30	10	.81
14	41	10	1.1	65	24	4.2	23	9	.56
15	25	10	.68	57	22	3.4	24	9	.58
16	36	10	.97	45	20	2.4	20	8	.43
17	27	9	.66	43	18	2.1	21	8	.45
18	22	9	.53	42	16	1.8	20	8	.43
19	18	9	.44	44	14	1.7	21	8	.45
20	9.5	12	.31	42	12	1.4	17	8	.37
21	7.5	15	.30	38	12	1.2	18	9	.44
22	4.1	17	.19	37	11	1.1	20	9	.49
23	3.0	19	.15	19	11	.56	16	8	.35
24	1.4	23	.09	26	13	.91	14	8	.30
25	1.2	24	.08	41	14	1.5	9.7	7	.18
26	62	27	5.8	129	25	14	22	8	.48
27	20	28	1.5	31	19	1.6	25	9	.61
28	18	28	1.4	25	17	1.1	32	10	.86
29	1.9	26	.13	31	15	1.3	50	10	1.4
30	1.0	24	.06	36	12	1.2	44	10	1.2
31	---	---	---	27	11	.80	---	---	---
TOTAL	1444.6	---	52.99	1210.25	---	77.68	676.7	---	16.73

	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	47	11	1.4	4.3	10	.12	25	10	.68
2	55	13	1.9	4.3	10	.12	23	11	.68
3	62	13	2.2	5.1	10	.14	28	11	.83
4	64	13	2.2	6.8	10	.18	34	10	.92
5	61	13	2.1	11	10	.30	39	10	1.1
6	59	14	2.2	17	10	.46	26	9	.63
7	58	13	2.0	32	10	.86	18	10	.49
8	51	12	1.7	34	11	1.0	17	10	.46
9	45	12	1.5	44	11	1.3	16	9	.39
10	41	14	1.5	51	12	1.7	20	9	.49
11	30	14	1.1	57	12	1.8	21	8	.45
12	18	14	.68	53	11	1.6	17	8	.37
13	22	13	.77	55	11	1.6	11	8	.24
14	21	12	.68	58	11	1.7	11	8	.24
15	17	11	.50	53	11	1.6	10	8	.22
16	23	10	.62	45	11	1.3	15	9	.36
17	29	12	.94	46	10	1.2	21	9	.51
18	32	14	1.2	43	10	1.2	32	9	.78
19	35	11	1.0	45	10	1.2	64	9	1.6
20	31	9	.75	45	10	1.2	92	10	2.5
21	30	9	.73	47	10	1.3	83	9	2.0
22	26	9	.63	39	10	1.1	71	9	1.7
23	24	10	.65	38	10	1.0	70	9	1.7
24	25	10	.68	36	10	.97	62	9	1.5
25	22	11	.65	36	9	.87	74	11	2.2
26	16	12	.52	36	8	.78	46	9	1.1
27	15	16	.65	38	9	.92	32	9	.78
28	11	13	.39	41	9	1.0	32	9	.78
29	9.2	11	.27	45	10	1.2	34	9	.83
30	6.4	11	.19	39	10	1.1	34	9	.83
31	5.1	10	.14	32	9	.78	---	---	---
TOTAL	990.7	---	32.44	1136.5	---	31.60	1078	---	27.36
YEAR	32382.75		1676.44						

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
JAN								
02...	1955	9.0	531	92	132	100	--	--
06...	0720	6.5	243	13	8.5	97	100	--
FEB								
22...	0650	12.0	166	32	14	98	98	100
24...	0715	11.5	296	21	17	95	96	100
MAR								
16...	0645	10.0	482	55	72	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
AUG								
08...	1410	24.0	5	25	1	1	4	15

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
AUG							
08...	22	30	45	64	83	97	100

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	TUR-BID-ITY (JTU)
OCT			
03...	--	12	4
05...	--	14	4
07...	--	12	4
11...	--	9	3
15...	--	6	4
19...	--	5	2
22...	--	9	4
27...	--	8	3
31...	--	13	6
NOV			
03...	1415	10	5
03...	1800	14	5
06...	--	12	4
09...	--	10	3
12...	--	23	10
15...	--	27	9
16...	--	19	8
17...	--	23	8
20...	--	16	6
21...	--	16	5
30...	--	4	2
DEC			
01...	--	6	2
02...	--	8	3
04...	--	12	3
06...	--	18	3
08...	--	6	3
11...	--	6	3
13...	--	6	4
16...	--	7	4
27...	--	7	3
JAN			
02...	--	21	6
04...	--	38	25
08...	--	9	3
10...	--	8	3
12...	--	13	4
17...	--	6	3
19...	--	7	3
23...	--	8	3
27...	--	5	2
31...	--	13	4
FEB			
01...	--	11	3
04...	--	8	2
07...	--	16	5
08...	--	17	7
09...	0715	19	7
09...	1655	19	10
10...	--	17	7
12...	--	12	4
17...	--	20	6
19...	--	14	5
20...	--	17	7
21...	--	33	10
22...	0650	32	20
FEB			
22...	1640	29	15
23...	--	23	10
24...	--	21	20
25...	--	16	6
27...	--	16	8
28...	--	14	7
MAR			
02...	--	12	6
05...	--	14	7
07...	--	12	5
12...	--	16	6
14...	--	15	7
15...	--	28	6
16...	--	55	30
17...	--	70	40
21...	--	16	9
28...	--	16	5
30...	--	16	5
APR			
01...	--	14	4
04...	--	14	4
07...	--	11	4
12...	1130	10	4
12...	1135	11	5
23...	--	19	8
24...	--	24	7
28...	--	28	15
MAY			
03...	--	32	15
08...	--	44	15
10...	--	36	15
JUL			
12...	--	16	6
15...	--	11	5
18...	--	16	5
20...	--	9	3
25...	--	11	3
27...	--	16	5
29...	--	11	4
AUG			
08...	--	11	3
10...	--	12	4
12...	--	11	4
24...	--	10	4
26...	--	8	4
29...	--	10	4
31...	--	9	7
SEP			
02...	--	11	5
05...	--	10	3
06...	--	9	3
07...	--	19	6
09...	--	9	3
12...	--	8	5
19...	--	9	3
21...	--	8	8
23...	--	9	3
26...	--	4	4

GARCIA RIVER BASIN

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, 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 mi^2 (255.1 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1951-56, and annual maximum water years 1952-56, August 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 55.31 ft (16.858 m) above mean sea level. July 17, 1951, to Jan. 31, 1956, crest-stage only, at site 15 ft (5 m) upstream at different datum.

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

AVERAGE DISCHARGE.--15 years, 319 ft^3/s (9.034 m^3/s), 231,100 acre-ft/yr (285 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,300 ft^3/s (858 m^3/s) Jan. 16, 1974, gage height, 17.41 ft (5.307 m), from rating curve extended above 9,600 ft^3/s (272 m^3/s) on basis of slope-area measurements at gage heights 15.11 ft (4.606 m) and 16.63 ft (5.069 m); minimum daily, 2.3 ft^3/s (0.065 m^3/s) Sept. 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 486 ft^3/s (13.8 m^3/s) Mar. 15, gage height, 6.13 ft (1.868 m), no peak above base of 5,000 ft^3/s (142 m^3/s); minimum daily, 2.3 ft^3/s (0.065 m^3/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	10	13	29	14	35	30	23	13	7.6	4.8	3.8
2	12	10	13	68	14	32	28	26	13	7.6	5.1	3.8
3	12	11	13	155	14	31	27	24	13	7.6	5.1	3.8
4	12	10	13	130	14	29	26	23	13	7.6	5.1	3.7
5	12	10	13	75	14	27	25	20	12	7.5	5.1	3.5
6	12	10	13	41	13	25	24	19	12	7.1	5.1	3.5
7	12	10	13	32	13	24	23	18	12	6.7	5.1	3.5
8	11	10	13	28	19	24	24	19	12	6.7	4.8	3.2
9	11	10	13	26	41	30	24	20	11	6.3	5.1	3.1
10	11	11	13	25	52	37	22	19	11	5.9	5.1	2.9
11	11	17	13	24	35	31	21	20	11	5.5	5.1	2.8
12	11	23	13	23	32	30	20	20	11	5.5	4.8	2.6
13	11	18	13	22	28	30	20	20	11	5.5	4.4	2.6
14	11	47	13	21	25	29	19	19	11	5.9	4.4	2.6
15	10	59	13	20	24	182	19	18	11	5.9	4.4	2.6
16	10	32	13	20	23	232	18	17	10	5.9	4.1	2.3
17	10	24	13	19	22	117	18	16	10	5.5	4.1	4.3
18	10	20	13	19	21	79	17	16	10	5.5	4.1	15
19	10	18	13	18	20	62	17	18	9.9	5.5	4.1	146
20	10	17	13	18	21	52	16	17	9.5	5.4	4.1	88
21	10	16	13	17	31	46	16	16	9.5	5.1	4.1	60
22	10	16	13	17	88	41	16	15	9.5	5.1	4.1	43
23	10	15	13	17	80	38	15	15	9.0	5.1	4.1	31
24	10	15	13	17	78	48	15	15	9.0	5.1	3.8	23
25	11	15	13	16	60	61	15	14	8.5	5.4	4.0	17
26	12	15	13	15	51	52	15	18	8.5	5.1	4.8	25
27	11	15	13	15	45	45	15	19	8.4	5.1	5.5	35
28	11	14	13	15	38	41	15	17	8.3	5.1	4.6	60
29	10	14	13	15	---	37	15	16	8.0	5.1	5.0	120
30	10	14	21	14	---	34	16	14	7.9	5.1	4.6	70
31	10	---	36	14	---	32	---	14	---	5.1	3.8	---
TOTAL	336	526	434	985	930	1613	591	565	313.0	183.1	142.4	787.6
MEAN	10.8	17.5	14.0	31.8	33.2	52.0	19.7	18.2	10.4	5.91	4.59	26.3
MAX	12	59	36	155	88	232	30	26	13	7.6	5.5	146
MIN	10	10	13	14	13	24	15	14	7.9	5.1	3.8	2.3
AC-FT	666	1040	861	1950	1840	3200	1170	1120	621	363	282	1560

CAL YR 1976	TOTAL	25847.0	MEAN 70.6	MAX 1390	MIN 10	AC-FT	51270	
WTR YR 1977	TOTAL	7406.1	MEAN 20.3	MAX 232	MIN 2.3	AC-FT	14690	

11467600 GARCIA RIVER NEAR POINT ARENA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1964 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1963 to current year.

INSTRUMENTATION.--Temperature recorder since October 1963.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 22.0°C June 22, 1964, Aug. 29, 1968, June 25, 1973, Aug. 1, 1975, July 8, 1976; minimum, 5.0°C Dec. 14-16, 1967, Dec. 11, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 20.0°C on several days during October, June to September; minimum, 8.0°C Jan. 5-7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 12...	1315	4.6	196	6.8	18.0	7.8	72	0	20

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 12...	5.4	13	28	.7	1.2	100	0	84	13

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 12...	6.2	.1	19	128	.17	1.60	.05	90	70

11467600 GARCIA RIVER NEAR POINT ARENA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	11.0	16.5	13.5	18.5	14.5	17.5	15.5	20.0	16.0	18.5	15.5
2	15.5	11.0	18.0	13.5	19.0	13.5	18.5	15.5	20.0	16.0	18.5	16.0
3	16.5	11.0	16.5	14.5	18.0	13.5	18.5	14.5	20.0	16.5	19.5	15.5
4	16.5	11.5	17.5	12.5	20.0	14.0	18.5	14.5	18.0	16.5	20.0	16.5
5	16.0	12.5	16.5	13.0	20.0	15.0	18.5	14.5	19.0	16.0	19.5	16.5
6	16.5	12.5	16.5	12.0	20.0	15.0	19.0	14.5	17.0	16.0	19.0	16.0
7	14.5	13.0	15.5	12.0	19.0	15.0	18.5	14.5	19.0	16.0	19.0	15.5
8	16.0	13.0	17.5	13.0	18.0	14.5	19.0	15.0	19.0	16.0	19.0	16.0
9	15.5	12.5	15.0	13.5	15.5	14.5	18.5	14.5	19.0	16.0	18.5	16.0
10	16.0	11.5	15.5	13.5	16.0	14.5	19.0	14.5	19.0	16.5	18.5	16.0
11	16.5	12.5	14.0	13.0	18.5	14.5	19.5	15.0	20.0	16.5	18.0	16.0
12	16.5	12.0	16.5	13.0	18.5	14.5	19.5	15.5	19.5	16.5	17.5	15.5
13	16.0	12.5	17.0	13.0	19.0	14.5	19.5	15.5	19.5	16.5	17.5	15.5
14	16.0	11.5	17.0	13.5	17.5	15.0	19.5	15.5	19.0	15.5	16.5	15.5
15	16.5	12.0	17.0	12.5	19.5	14.5	19.5	15.5	19.0	15.5	17.0	15.5
16	16.0	12.5	17.0	12.5	19.5	14.5	19.5	15.5	18.0	16.0	16.0	15.0
17	16.0	11.5	17.0	12.5	17.5	15.0	19.5	15.5	19.0	16.0	16.5	15.5
18	16.5	12.5	14.5	12.5	16.5	14.5	19.0	15.5	19.0	16.0	17.0	16.5
19	17.0	11.5	18.0	13.5	18.0	14.0	19.0	15.5	19.0	16.0	18.5	16.5
20	17.0	12.0	18.5	13.5	19.0	14.0	19.0	15.5	19.0	16.0	19.5	17.0
21	17.5	12.5	17.0	14.0	19.5	14.5	19.5	15.5	19.0	16.0	19.5	16.0
22	17.5	12.5	15.0	14.0	19.5	15.0	19.0	16.0	19.0	15.5	19.0	15.5
23	17.5	12.5	18.0	13.5	19.0	14.5	19.0	16.0	19.0	15.5	19.5	15.0
24	16.0	12.5	18.0	13.5	19.5	15.0	17.5	15.5	18.5	17.0	19.5	16.5
25	17.5	14.0	17.0	13.5	19.0	15.5	19.5	15.5	17.0	16.5	19.5	15.0
26	17.5	13.5	17.5	14.5	19.5	15.0	19.5	15.5	20.0	16.5	19.5	16.0
27	17.5	13.0	18.0	13.5	19.5	15.0	19.0	16.0	19.5	16.0	18.5	16.0
28	14.5	12.5	18.0	13.0	19.5	15.5	19.0	15.5	20.0	16.5	17.5	16.5
29	16.0	13.5	18.5	13.0	19.5	15.5	19.5	15.5	19.5	16.5	18.0	16.0
30	15.5	13.5	18.5	13.5	19.5	15.5	20.0	15.5	19.0	16.0	18.0	14.5
31	---	---	19.5	14.0	---	---	20.0	16.0	18.5	15.5	---	---
MONTH	17.5	11.0	19.5	12.0	20.0	13.5	20.0	14.5	20.0	15.5	20.0	14.5

11468000 NAVARRO RIVER NEAR NAVARRO, CA

LOCATION.--Lat 39°10'20", long 123°40'06", in SE¼ sec.7, T.15 N., R.16 W., Mendocino County, on right bank 2.9 mi (4.7 km) downstream from North Fork, 5.2 mi (8.4 km) upstream from mouth, and 6.8 mi (10.9 km) west of Navarro.

DRAINAGE AREA.--303 mi^2 (785 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 1445: 1954(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4.79 ft (1.460 m) above mean sea level. 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.--27 years, 512 ft^3/s (14.50 m^3/s), 370,900 acre-ft/yr (457 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,500 ft^3/s (1,830 m^3/s) Dec. 22, 1955, gage height, 40.60 ft (12.375 m) site and datum then in use, from rating curve extended above 19,000 ft^3/s (538 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.23 ft^3/s (0.007 m^3/s) July 13, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 38.2 ft (11.64 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 630 ft^3/s (17.8 m^3/s) Mar. 16, gage height, 3.84 ft (1.170 m), no peak above base of 7,000 ft^3/s (198 m^3/s); minimum daily, 0.23 ft^3/s (0.007 m^3/s) July 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	7.7	17	37	20	57	48	11	8.3	.74	.92	.57
2	7.1	7.1	16	46	20	48	46	18	7.1	.74	.92	.57
3	7.7	7.1	16	230	20	44	44	19	6.7	.54	.92	.57
4	7.7	6.1	16	191	20	39	42	17	6.7	.43	.74	.57
5	6.6	6.6	16	102	20	35	42	15	6.5	.43	.57	.57
6	6.6	6.6	16	67	20	32	42	13	6.1	.43	.57	.57
7	6.6	6.6	16	52	20	30	42	12	6.4	.43	.57	.57
8	6.6	6.6	16	43	28	29	42	15	5.7	.28	.57	.57
9	6.6	6.6	16	39	62	35	42	14	4.4	.28	.57	.57
10	6.6	7.1	16	36	71	51	42	15	4.8	.29	.57	.57
11	6.6	11	16	32	52	48	42	18	5.0	.29	.57	.57
12	6.6	24	17	32	41	46	41	20	5.2	.29	.57	.48
13	6.1	26	18	32	34	47	39	19	5.2	.23	.57	.29
14	5.6	32	18	32	31	46	38	17	5.2	.29	.57	.29
15	5.6	68	18	30	28	119	37	16	5.2	.43	.57	.29
16	5.6	48	18	27	27	526	39	15	5.0	.43	.57	.29
17	10	34	18	25	27	314	39	13	4.4	.57	.57	.57
18	12	27	18	25	24	194	38	13	4.3	.43	.57	.74
19	6.7	23	18	25	23	135	37	15	3.7	.74	.57	2.5
20	6.6	22	18	25	24	99	33	16	3.5	.76	.57	6.0
21	6.6	22	18	23	42	78	30	15	2.9	.92	.57	14
22	6.6	20	18	23	230	64	31	14	2.5	.92	.57	19
23	6.6	20	18	23	203	57	27	13	2.1	.92	.64	14
24	6.7	19	18	23	200	71	26	12	1.9	.92	.84	12
25	7.1	19	18	23	130	164	24	12	1.8	.92	1.1	10
26	7.1	18	18	23	90	160	22	12	1.7	.92	1.2	9.7
27	7.1	18	18	20	73	111	16	11	1.6	.92	1.1	7.8
28	7.7	17	18	20	62	86	13	10	1.1	.92	.57	13
29	7.7	17	19	20	---	71	12	9.9	1.0	.92	.57	16
30	7.7	17	30	20	---	60	10	8.6	.91	.92	.57	24
31	7.7	---	44	20	---	53	---	8.4	---	.91	.57	---
TOTAL	219.2	570.1	575	1366	1642	2949	1026	436.9	126.91	19.16	20.92	157.22
MEAN	7.07	19.0	18.5	44.1	58.6	95.1	34.2	14.1	4.23	.62	.67	5.24
MAX	12	68	44	230	230	526	48	20	8.3	.92	1.2	24
MIN	5.6	6.1	16	20	20	29	10	8.4	.91	.23	.57	.29
AC-FT	435	1130	1140	2710	3260	5850	2040	867	252	38	41	312

CAL YR 1976 TOTAL 37283.00 MEAN 102 MAX 1940 MIN 3.1 AC-FT 73950
WTR YR 1977 TOTAL 9108.41 MEAN 25.0 MAX 526 MIN .23 AC-FT 18070

11468000 NAVARRO RIVER NEAR NAVARRO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.
CHEMICAL ANALYSES: Water years 1959-66, 1973 to current year.
WATER TEMPERATURES: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

COOPERATION.--The letter "A" following a date indicates chemical-quality data were furnished by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 26.5°C July 8, 1976; minimum recorded, 3.0°C Jan. 2, 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.5°C June 22, 24; minimum, 5.5°C Dec. 19, Jan. 7, 8.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
NOV 10...A	1230	7.1	265	7.2	14.5	1	9.2
JAN 06...A	0800	71	275	7.4	4.5	1	8.8
MAR 09...A	1600	37	277	7.8	13.0	1	12.2
MAY 04...A	1400	17	283	7.8	17.0	0	11.6
JUL 13...A	1315	.23	274	7.6	21.5	1	9.4
AUG 11...	1245	.56	257	7.0	21.0	--	8.8
SEP 21...A	1445	16	274	7.5	19.0	1	9.4

DATE	TIME	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JAN 06...A	0800	120	5	28	12	14	20	.6	1.3	140	0	120
MAY 04...A	1400	120	0	--	--	14	--	.6	--	150	0	120
AUG 11...	1245	100	0	25	10	13	21	.6	1.4	150	0	120

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
JAN 06...	18	11	--	--	162	152	.22	31.1	--	200	--
MAY 04...	--	9.2	--	--	--	--	--	--	--	300	--
AUG 11...	7.8	8.0	.1	9.5	--	149	.20	.23	.01	180	50

11468000 NAVARRO RIVER NEAR NAVARRO, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	17.5	15.5	13.5	8.0	7.0	8.0	8.0	10.5	10.0	10.5	9.5
2	18.0	17.0	16.5	15.0	8.5	7.5	8.5	8.0	10.0	9.5	9.5	9.0
3	17.5	16.0	16.0	14.5	8.5	8.0	8.5	8.0	10.5	9.5	10.0	9.0
4	17.5	15.5	15.0	13.0	8.5	8.0	8.0	7.5	10.5	9.5	10.0	9.0
5	17.5	15.5	14.0	12.5	8.5	8.0	7.5	7.0	10.5	9.5	10.0	9.0
6	17.5	15.5	14.0	12.5	8.0	7.5	7.5	6.5	11.0	10.0	10.0	9.0
7	18.0	16.0	13.5	12.5	7.5	7.0	6.5	5.5	11.0	10.5	10.5	9.5
8	18.0	16.5	13.5	12.0	7.5	7.0	6.0	5.5	11.0	10.5	11.5	10.0
9	17.5	16.0	13.5	12.5	8.0	7.5	6.5	6.0	11.0	11.0	11.5	11.0
10	17.5	16.0	14.5	13.0	7.5	7.0	7.5	6.5	11.5	10.5	11.0	10.0
11	17.5	16.0	15.0	14.5	7.0	6.5	8.5	7.5	11.5	11.0	10.5	9.5
12	17.5	15.5	14.5	14.0	6.5	6.0	9.0	8.5	12.0	11.5	10.5	10.0
13	16.5	15.0	14.0	13.5	6.5	6.0	9.0	8.5	12.0	11.5	10.5	9.5
14	16.0	14.5	14.0	13.5	6.5	6.0	10.5	10.0	12.0	11.5	10.0	9.0
15	15.5	14.5	14.5	13.5	6.5	6.0	10.5	10.0	12.0	11.5	10.0	8.5
16	15.5	14.5	15.0	14.5	7.0	6.5	10.5	10.0	12.0	11.5	8.5	8.0
17	15.5	13.5	15.0	14.5	7.0	6.5	10.5	10.0	12.0	11.5	9.0	8.0
18	14.5	13.5	15.0	14.0	6.5	6.0	10.0	9.5	12.0	11.0	9.5	8.5
19	14.5	13.5	14.5	13.5	6.0	5.5	10.0	9.5	12.0	11.0	10.5	9.5
20	14.5	13.0	14.0	13.5	6.5	6.0	10.0	9.0	11.5	11.0	11.5	10.0
21	14.5	13.5	14.0	13.5	7.5	6.5	10.5	9.5	11.5	11.0	11.5	10.5
22	14.5	13.5	14.0	13.5	8.0	7.5	10.5	10.0	11.5	11.0	12.0	11.0
23	14.5	13.5	13.5	13.0	8.0	8.0	10.0	9.5	11.0	10.5	12.0	11.0
24	14.5	13.0	13.5	12.5	8.0	7.5	10.5	10.0	11.0	10.0	11.5	10.5
25	14.5	14.0	13.0	12.5	8.0	7.5	10.0	9.5	10.0	9.5	11.0	10.0
26	14.5	13.5	12.5	11.5	8.0	7.5	10.0	9.0	10.0	9.5	11.5	10.0
27	14.0	12.5	11.5	9.5	8.0	7.5	9.5	9.0	10.5	9.5	11.5	11.0
28	13.5	12.0	9.5	8.5	8.5	8.0	9.5	8.5	11.0	10.5	11.5	10.5
29	14.0	12.5	8.5	7.5	9.0	8.0	9.5	8.5	---	---	11.0	10.0
30	14.5	13.5	8.0	7.5	9.0	8.5	10.0	9.5	---	---	11.0	9.5
31	14.5	13.0	---	---	8.5	8.0	10.5	10.0	---	---	11.5	10.0
MONTH	19.0	12.0	16.5	7.5	9.0	5.5	10.5	5.5	12.0	9.5	12.0	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.5	18.5	16.0	---	---	21.0	19.0	23.0	19.5	21.0	16.5
2	12.5	11.0	20.0	16.5	---	---	23.0	18.0	24.0	19.0	20.5	16.5
3	13.5	11.5	19.0	16.5	---	---	23.5	17.5	24.0	19.0	22.0	16.0
4	13.5	12.0	19.0	15.0	---	---	23.5	18.0	20.5	18.5	24.5	19.5
5	14.0	12.5	18.0	15.5	---	---	23.5	17.0	20.5	17.5	23.5	19.5
6	14.5	13.0	17.0	14.5	---	---	23.5	17.5	18.5	17.0	22.5	17.5
7	14.5	13.5	16.0	14.0	---	---	23.0	18.0	20.0	16.5	22.0	16.5
8	15.0	13.5	18.5	14.0	---	---	23.5	17.5	21.0	17.0	21.0	16.0
9	15.0	13.5	18.0	15.5	---	---	23.5	18.0	19.5	17.5	20.0	15.5
10	14.5	13.0	17.0	15.0	---	---	23.5	18.0	21.5	17.0	20.0	15.5
11	15.0	13.5	16.5	15.5	---	---	23.5	18.0	22.0	17.5	19.0	15.5
12	15.5	13.5	18.0	14.5	---	---	23.5	18.5	21.5	18.0	17.5	15.5
13	16.0	14.5	19.0	15.5	---	---	23.0	18.0	20.5	17.5	20.0	15.5
14	15.5	14.0	19.0	16.5	---	---	23.5	18.5	20.5	17.0	18.5	16.0
15	16.0	14.5	19.0	16.0	---	---	23.5	18.0	20.5	17.0	19.5	16.5
16	16.0	14.5	18.5	15.5	---	---	23.5	18.0	19.5	17.0	18.0	15.5
17	16.0	14.5	19.0	15.5	---	---	23.5	18.0	19.0	17.0	18.5	16.5
18	16.0	14.5	17.5	15.5	---	---	24.0	19.0	20.5	17.5	20.0	17.0
19	16.5	14.5	---	---	---	---	24.0	19.5	22.5	17.5	21.0	17.0
20	17.0	15.5	---	---	---	---	24.0	19.0	21.5	18.0	20.5	17.5
21	17.0	15.5	---	---	25.0	18.0	23.5	17.5	22.5	18.0	20.0	16.5
22	17.0	15.5	---	---	25.5	19.5	23.0	18.5	22.0	16.5	19.5	15.5
23	17.0	15.5	---	---	25.0	18.5	21.5	18.5	22.5	16.5	19.5	15.0
24	17.0	16.0	---	---	25.5	19.0	19.0	17.0	20.5	19.0	19.5	17.0
25	18.0	16.5	---	---	25.0	20.0	20.5	16.5	19.0	18.0	19.0	15.0
26	18.5	17.0	---	---	25.0	19.0	23.0	16.0	22.0	17.0	19.0	15.5
27	19.5	17.0	---	---	24.5	18.5	23.5	17.5	22.5	17.0	18.0	16.0
28	17.5	16.0	---	---	24.5	19.0	24.0	18.0	23.5	17.5	18.5	16.5
29	18.0	15.0	---	---	24.5	19.0	24.5	18.0	24.0	19.0	18.5	17.0
30	17.5	16.5	---	---	22.5	19.5	25.0	19.5	23.5	18.0	18.5	15.5
31	---	---	---	---	---	---	24.0	19.5	22.0	17.5	---	---
MONTH	19.5	10.5	---	---	---	---	25.0	16.0	24.0	16.5	24.5	15.0

11468500 NOYO RIVER NEAR FORT BRAGG, CA

LOCATION.--Lat 39°25'42", long 123°44'12", in NE¼ sec.15, T.18 N., R.17 W., Mendocino County, on right bank 0.7 mi (1.1 km) downstream from South Fork, and 3.5 mi (5.6 km) east of Fort Bragg.

DRAINAGE AREA.--106 mi^2 (275 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 11.73 ft (3.575 m) above mean sea level.

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

AVERAGE DISCHARGE.--26 years, 216 ft^3/s (6.117 m^3/s), 156,500 acre-ft/yr (193 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,600 ft^3/s (753 m^3/s) Mar. 29, 1974, gage height, 27.14 ft (8.272 m), from rating curve extended above 4,500 ft^3/s (127 m^3/s) on basis of slope-conveyance study; minimum daily, 0.79 ft^3/s (0.022 m^3/s) Sept. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 153 ft^3/s (4.33 m^3/s) Mar. 15, gage height, 4.48 ft (1.366 m), no peak above base of 2,400 ft^3/s (68 m^3/s); minimum daily, 0.79 ft^3/s (0.022 m^3/s) Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	5.2	7.3	15	7.8	21	21	12	5.9	2.5	1.2	.91
2	8.5	5.0	7.3	34	7.8	18	19	16	5.9	2.4	1.2	1.9
3	6.8	5.0	7.3	70	7.5	17	18	16	5.5	2.6	1.1	.91
4	5.6	5.0	7.4	57	7.3	15	16	15	5.4	2.5	1.1	1.0
5	4.9	5.3	7.5	32	7.3	13	15	12	5.3	2.4	1.1	1.0
6	4.4	5.2	7.5	22	7.3	12	14	11	5.1	2.3	1.1	1.5
7	4.2	5.7	7.3	17	7.4	11	13	11	4.8	2.3	1.2	.99
8	4.1	5.1	7.5	14	26	11	17	11	4.7	2.2	1.1	.79
9	3.9	4.7	8.3	13	45	34	19	10	4.3	2.2	1.0	1.5
10	3.9	5.5	8.2	12	30	51	15	10	4.2	2.2	1.2	.84
11	3.8	15	8.0	12	22	37	13	9.8	4.2	2.2	1.1	1.3
12	3.8	18	7.8	17	18	33	13	9.9	4.3	2.0	1.1	.91
13	3.5	14	7.8	19	15	37	12	9.4	3.6	1.9	1.0	1.0
14	3.7	41	7.8	16	13	36	12	8.4	3.7	1.9	1.1	1.5
15	3.7	48	7.8	14	11	87	11	7.6	3.8	2.0	1.1	1.3
16	3.4	24	7.8	13	10	130	10	7.3	3.5	1.8	.96	2.0
17	3.4	16	7.8	12	9.3	86	9.8	6.7	3.3	1.7	1.0	2.8
18	3.4	13	8.2	11	8.5	59	9.3	8.1	3.3	1.7	1.0	4.5
19	3.4	11	7.9	11	7.7	44	8.8	10	3.8	1.6	1.1	19
20	3.4	9.5	8.1	10	8.6	35	8.8	10	3.5	1.5	1.2	17
21	3.4	8.9	8.3	9.9	27	29	8.8	8.3	3.2	1.4	1.0	9.3
22	3.7	8.4	9.0	9.4	44	25	8.4	7.3	3.4	1.3	.95	6.3
23	3.9	8.2	9.4	8.9	36	25	8.4	7.2	3.4	1.4	.96	4.5
24	4.1	7.8	9.4	8.9	33	40	6.7	6.8	2.9	1.5	1.0	4.2
25	5.0	7.8	9.4	8.9	27	62	4.8	6.7	2.7	1.7	2.0	13
26	5.1	7.8	9.4	8.7	23	54	6.7	9.1	2.5	1.8	2.3	3.7
27	5.4	7.7	9.4	8.3	19	43	7.5	9.3	2.8	1.7	3.1	2.9
28	5.0	7.3	9.7	8.3	21	35	7.5	8.3	2.5	1.6	2.2	18
29	5.0	7.3	11	7.8	---	29	7.6	7.5	2.4	1.6	2.7	24
30	5.0	7.3	25	7.8	---	26	8.7	6.7	2.5	1.6	2.1	15
31	5.0	---	22	7.8	---	23	---	6.2	---	1.4	1.5	---
TOTAL	142.4	339.7	286.6	515.7	506.5	1178	349.8	294.6	116.4	58.9	41.77	163.55
MEAN	4.59	11.3	9.25	16.6	18.1	38.0	11.7	9.50	3.88	1.90	1.35	5.45
MAX	10	48	25	70	45	130	21	16	5.9	2.6	3.1	24
MIN	3.4	4.7	7.3	7.8	7.3	11	4.8	6.2	2.4	1.3	.95	.79
AC-FT	282	674	568	1020	1000	2340	694	584	231	117	83	324

CAL YR 1976	TOTAL	26747.90	MEAN	73.1	MAX	2400	MIN	3.4	AC-FT	53050
WTR YR 1977	TOTAL	3993.92	MEAN	10.9	MAX	130	MIN	.79	AC-FT	7920

11468500 NOYO RIVER NEAR FORT BRAGG, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.
CHEMICAL ANALYSES: Water years 1959-66, 1977.
WATER TEMPERATURES: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1965 to current year.

INSTRUMENTATION.--Temperature recorder since December 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 24.5°C July 14, 22, 23, 1976, July 30, 1977; minimum recorded, 2.0°C Dec. 17-21, 1965.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 24.5°C July 30; minimum, 4.5°C Jan. 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 12...	0915	.98	177	7.0	18.5	7.2	63	0	17

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 12...	5.1	12	29	.7	1.4	96	0	79	4.0

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 12...	8.8	.1	11	107	.15	.28	.01	180	10

11468500 NOYO RIVER NEAR FORT BRAGG, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	15.5	15.0	12.5	8.5	6.0	8.0	7.0	10.5	8.0	10.5	7.0
2	17.5	15.0	16.0	12.5	9.0	7.0	8.5	7.5	9.5	6.0	9.5	6.5
3	18.0	14.0	15.0	11.0	9.5	8.0	8.5	7.5	9.5	6.5	11.0	7.5
4	18.0	13.0	13.5	10.0	10.0	8.0	7.5	7.0	10.0	7.0	10.5	6.0
5	18.0	12.5	13.0	10.0	9.0	7.0	7.5	6.0	10.5	8.0	11.0	5.5
6	19.0	13.5	13.5	10.5	8.5	7.0	6.5	5.0	12.0	9.5	11.0	6.5
7	18.5	14.0	13.0	10.5	8.0	6.5	5.5	4.5	11.5	8.5	10.0	8.5
8	18.5	15.0	13.0	10.0	8.5	6.5	6.0	5.0	11.0	10.0	12.5	9.5
9	17.0	14.5	13.5	10.5	8.0	6.5	6.5	5.0	11.0	10.0	12.0	8.5
10	18.0	14.5	15.0	13.0	7.5	6.0	7.5	6.0	11.5	10.0	10.0	6.0
11	18.0	14.5	14.5	13.0	6.5	5.5	8.5	7.0	11.5	10.0	9.5	5.5
12	18.0	13.0	13.5	12.5	6.5	5.0	9.0	8.0	12.0	11.0	10.0	7.0
13	17.0	12.0	13.5	13.0	6.5	5.5	9.5	8.0	12.5	10.5	9.0	6.0
14	16.0	13.5	13.0	13.0	6.5	5.5	9.5	8.0	12.5	9.5	9.0	5.0
15	16.0	13.5	14.0	13.0	6.5	5.5	9.0	8.0	12.0	9.0	7.0	6.5
16	16.0	12.0	15.0	14.0	7.0	6.0	9.5	8.0	12.5	10.5	8.0	6.5
17	15.5	11.0	15.0	13.5	7.0	6.0	9.0	7.0	13.0	10.0	9.5	6.0
18	15.0	12.0	14.5	13.5	7.0	6.0	8.5	7.0	12.5	8.5	10.0	6.0
19	15.5	12.5	14.0	12.5	6.5	5.0	9.0	7.0	12.0	10.0	11.5	8.5
20	15.0	12.0	13.5	12.0	8.5	6.5	10.0	7.5	12.0	10.5	12.0	8.0
21	15.5	13.0	14.5	13.0	9.0	7.5	11.0	9.0	12.5	10.0	12.0	7.5
22	15.5	12.0	14.0	13.0	9.5	8.0	11.0	9.0	11.0	9.0	12.0	9.5
23	15.0	11.5	14.0	12.5	9.0	7.5	10.5	8.0	11.0	9.5	12.0	9.0
24	14.0	11.0	13.5	12.0	8.0	6.5	10.5	8.5	10.5	7.5	10.5	8.0
25	15.0	13.0	13.0	11.5	9.0	8.0	10.0	7.0	10.0	7.0	11.5	7.5
26	14.5	11.0	11.5	8.0	9.0	7.0	9.0	6.5	10.5	7.0	11.5	7.0
27	14.0	9.5	8.5	6.5	8.5	8.0	8.5	6.0	11.0	8.0	12.0	8.5
28	13.0	9.0	8.0	6.0	9.0	7.5	8.0	6.0	11.0	8.0	11.0	7.0
29	13.5	10.5	8.0	6.0	9.5	8.0	9.0	6.5	---	---	11.5	7.0
30	14.0	12.5	8.0	6.0	9.5	7.5	10.0	8.5	---	---	11.5	6.0
31	14.5	11.0	---	---	7.5	6.5	11.0	9.5	---	---	12.0	6.5
MONTH	19.0	9.0	16.0	6.0	10.0	5.0	11.0	4.5	13.0	6.0	12.5	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	9.5	18.5	14.0	20.0	16.0	19.5	17.5	23.0	19.0	20.5	15.0
2	13.5	8.5	19.5	14.5	19.0	13.5	20.5	16.5	24.0	19.0	20.5	17.0
3	14.5	7.5	17.5	13.5	19.5	13.5	21.0	14.5	24.0	19.5	22.0	17.0
4	15.0	9.5	18.5	12.0	21.0	13.5	21.0	15.5	21.0	18.0	23.5	20.0
5	14.0	10.5	17.5	12.5	22.0	16.5	20.5	14.5	22.0	18.0	23.5	20.0
6	15.5	10.5	17.5	10.5	21.5	16.5	21.0	15.0	20.0	18.0	22.0	17.5
7	13.5	11.5	15.5	9.5	21.0	16.5	21.5	16.0	20.5	17.5	22.0	17.0
8	14.5	11.0	18.5	11.0	20.0	16.0	21.0	15.5	20.0	18.0	21.5	16.5
9	15.5	10.0	15.0	13.5	18.5	15.5	21.5	16.0	19.5	17.5	20.0	15.5
10	16.0	9.0	15.5	13.0	17.0	15.0	22.0	15.5	21.5	17.0	20.5	16.5
11	17.0	11.0	16.5	12.5	19.5	15.0	22.0	16.5	23.0	18.5	19.5	16.0
12	17.0	9.5	18.5	11.5	20.0	14.0	22.5	18.0	23.0	18.5	18.0	16.0
13	17.5	11.5	19.0	12.5	20.0	15.0	22.5	16.5	21.0	18.0	19.0	16.0
14	16.5	10.0	19.0	13.0	18.5	15.0	22.5	17.0	21.0	17.0	20.0	17.0
15	17.0	9.5	18.5	13.0	20.0	15.0	22.5	17.0	21.0	17.5	19.5	17.0
16	17.0	11.0	18.5	12.5	19.5	15.0	23.0	17.0	19.5	17.0	18.0	16.0
17	17.0	9.5	18.5	12.0	16.5	15.0	23.0	17.0	19.5	17.5	18.5	16.0
18	17.0	10.0	14.5	11.5	17.0	14.5	24.0	17.5	21.5	18.0	19.5	17.5
19	18.0	8.5	18.5	13.5	18.5	14.5	24.0	18.0	22.5	18.5	21.0	18.0
20	17.5	10.0	19.5	14.0	18.0	14.0	23.5	17.5	21.5	19.0	21.5	18.0
21	18.5	11.5	19.5	15.0	21.0	14.5	24.0	17.0	23.0	18.5	21.0	15.5
22	19.0	10.5	16.5	14.0	21.0	15.0	24.0	17.0	22.5	16.0	20.0	14.5
23	19.5	11.5	18.0	13.5	21.5	15.0	21.5	18.0	22.5	16.0	19.5	14.0
24	18.5	12.0	19.5	12.5	22.0	15.0	19.5	17.5	22.0	19.0	20.0	16.0
25	19.5	14.5	17.5	14.0	22.0	16.5	21.0	17.0	19.5	18.5	20.0	14.5
26	19.5	13.5	17.0	13.5	22.0	15.5	22.5	15.0	22.0	18.0	19.5	15.5
27	19.5	13.5	18.5	12.0	23.5	15.5	22.5	16.5	21.5	17.0	18.5	15.5
28	16.0	12.5	19.0	12.0	22.0	17.0	22.5	16.0	22.0	17.0	18.5	17.5
29	17.0	13.0	19.0	11.0	22.0	17.0	23.5	16.0	22.0	18.0	19.0	16.5
30	17.0	14.0	20.0	12.5	20.0	16.5	24.5	17.5	22.0	18.0	18.5	14.0
31	---	---	21.5	15.0	---	---	24.0	18.5	21.0	16.0	---	---
MONTH	19.5	7.5	21.5	9.5	23.5	13.5	24.5	14.5	24.0	16.0	23.5	14.0

11468990 HONEYDEW CREEK NEAR HONEYDEW, CA

LOCATION.--Lat 40°13'23", long 124°06'35", in NE¼SW¼ sec.7, T.3 S., R.1 E., Humboldt County, on left bank just upstream from highway bridge, 0.1 mi (0.2 km) downstream from small right-bank tributary, 1.4 mi (2.3 km) upstream from mouth, and 1.6 mi (2.6 km) south of town of Honeydew.

DRAINAGE AREA.--14.9 mi^2 (38.6 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1973 to September 1977 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,920 ft^3/s (139 m^3/s) Mar. 18, 1975, gage height, 14.74 ft (4.493 m), from rating curve extended above 1,400 ft^3/s (39.6 m^3/s); minimum daily, 3.2 ft^3/s (0.091 m^3/s) Dec. 19-28, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,180 ft^3/s (33.4 m^3/s) Sept. 19, gage height, 10.80 ft (3.292 m), no peak above base of 2,000 ft^3/s (57 m^3/s); minimum daily, 3.2 ft^3/s (0.091 m^3/s) Dec. 19-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	4.9	3.9	6.5	5.7	37	40	20	22	10	5.4	4.6
2	5.7	4.9	3.9	62	5.7	33	37	58	22	10	5.1	4.6
3	5.4	4.9	3.7	46	5.4	37	35	93	21	9.3	5.1	4.6
4	4.9	4.9	3.7	21	5.4	32	33	58	21	8.9	5.1	4.3
5	4.9	4.9	3.7	13	5.4	29	32	46	20	8.5	4.6	4.3
6	4.9	4.9	3.7	9.7	5.4	26	31	43	19	8.5	4.6	4.3
7	4.9	4.9	3.7	7.8	5.4	142	29	38	19	8.5	4.6	4.1
8	4.9	4.6	3.7	6.8	73	224	38	34	18	8.2	4.6	4.1
9	4.9	5.1	4.1	6.2	42	543	29	32	17	8.2	4.6	4.1
10	4.9	8.5	3.7	6.5	25	204	28	30	17	8.2	4.6	4.1
11	4.6	26	3.7	15	19	171	26	29	17	7.5	4.9	4.1
12	4.6	9.3	3.4	33	16	94	25	27	17	7.5	4.6	3.9
13	4.6	36	3.4	19	14	77	25	25	16	7.1	4.6	3.9
14	4.6	48	3.4	15	13	64	23	24	16	7.1	4.3	3.9
15	4.6	21	3.4	12	12	227	22	23	15	6.8	4.3	3.9
16	4.6	12	3.4	11	11	144	22	22	15	6.8	4.1	12
17	4.6	8.9	3.4	9.7	11	103	21	22	14	6.2	4.1	41
18	4.3	6.8	3.4	8.9	9.7	83	20	23	14	6.2	3.9	152
19	4.3	5.9	3.2	8.5	9.3	74	20	22	14	6.2	3.9	365
20	4.3	5.4	3.2	7.8	43	66	19	20	13	6.5	3.9	162
21	4.3	5.1	3.2	7.8	137	59	19	19	13	6.5	4.1	53
22	4.3	4.9	3.2	7.5	56	56	19	19	12	6.2	3.9	36
23	4.3	4.9	3.2	7.1	108	59	17	19	12	5.9	3.7	29
24	5.1	4.6	3.2	6.8	80	71	17	18	12	5.9	4.6	27
25	6.8	4.3	3.2	6.5	59	62	29	18	12	5.7	8.5	22
26	5.4	4.3	3.2	6.5	45	56	20	60	11	5.7	7.5	20
27	4.9	4.1	3.2	6.2	37	51	18	35	11	5.4	5.4	23
28	4.9	3.9	3.2	5.9	42	49	19	29	11	5.4	5.1	308
29	4.6	3.9	8.9	5.9	---	46	19	27	10	5.1	4.9	173
30	4.6	3.9	14	5.9	---	43	17	25	10	5.4	4.3	86
31	4.6	---	6.5	5.7	---	41	---	24	---	5.4	4.3	---
TOTAL	150.2	275.7	126.7	397.2	900.4	3003	749	982	461	218.8	147.2	1571.8
MEAN	4.85	9.19	4.09	12.8	32.2	96.9	25.0	31.7	15.4	7.06	4.75	52.4
MAX	6.8	48	14	62	137	543	40	93	22	10	8.5	365
MIN	4.3	3.9	3.2	5.7	5.4	26	17	18	10	5.1	3.7	3.9
AC-FT	298	547	251	788	1790	5960	1490	1950	914	434	292	3120

CAL YR 1976 TOTAL 21309.4 MEAN 58.2 MAX 1860 MIN 3.2 AC-FT 42270
WTR YR 1977 TOTAL 8983.0 MEAN 24.6 MAX 543 MIN 3.2 AC-FT 17820

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.
SEDIMENT RECORDS: Water year 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 06...	1700	4.6	240	7.7	24.0	7.0	100	18	34

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP 06...	4.8	8.6	15	.4	1.0	100	0	82	37

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP 06...	3.2	.2	10	149	.20	1.85	.07	160	30

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, on right bank 0.2 mi (0.3 km) upstream from Clear Creek, 1.5 mi (2.4 km) southeast of Petrolia, and 1.7 mi (2.7 km) upstream from North Fork.

DRAINAGE AREA.--240 mi^2 (622 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Octboer 1911 to December 1913, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1912-13.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m), from topographic map. November 1911 to December 1913, nonrecording gages at several sites upstream within 0.3 mi (0.5 km) of present site at various datums. Dec. 11, 1950, to July 14, 1955, at site 0.3 mi (0.5 km) upstream at datum 7.48 ft (2.280 m) higher. July 15, 1955, to Oct. 26, 1967, at site 0.4 mi (0.6 km) downstream at different datum.

REMARKS.--Records good. Diversions for irrigation of about 350 acres (1.42 km^2) above station.

AVERAGE DISCHARGE.--29 years, 1,344 ft^3/s (38.06 m^3/s) 973,700 acre-ft/yr (1.20 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,400 ft^3/s (2,560 m^3/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 ft^3/s (736 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 17 ft^3/s (0.48 m^3/s) Sept. 5, 15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,280 ft^3/s (92.9 m^3/s) Mar. 9, gage height, 7.23 ft (2.204 m), no peak above base of 15,000 ft^3/s (425 m^3/s); minimum daily, 17 ft^3/s (0.48 m^3/s) Sept. 5-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	30	40	56	51	358	308	116	104	43	23	20
2	34	30	40	239	49	308	279	201	99	41	23	20
3	34	30	40	771	48	406	262	364	94	39	23	19
4	32	30	39	440	46	345	246	371	94	39	23	19
5	31	30	37	225	46	279	230	262	91	37	23	17
6	30	30	37	148	46	235	215	220	89	37	22	17
7	30	30	37	113	44	290	201	215	84	36	22	17
8	29	29	39	96	175	1140	235	201	82	35	23	17
9	29	30	41	84	391	2280	235	179	82	34	23	17
10	29	40	40	77	240	1420	197	171	77	33	23	17
11	29	119	40	86	167	905	179	167	77	32	22	17
12	27	131	37	235	138	797	167	156	77	32	22	17
13	27	96	37	235	122	714	163	145	77	31	22	17
14	27	345	36	163	110	605	156	138	72	31	22	17
15	27	302	36	128	99	1190	145	131	70	31	22	17
16	27	163	36	110	94	1280	141	131	68	31	22	25
17	27	104	36	96	86	1050	135	131	66	30	22	89
18	27	82	36	89	82	856	128	128	64	29	22	525
19	27	68	36	79	77	730	122	145	60	29	22	1530
20	27	60	36	75	125	635	119	135	60	29	21	1160
21	27	55	36	72	840	553	116	122	58	29	20	433
22	27	51	36	68	605	495	110	116	56	29	20	235
23	27	49	36	64	675	495	107	116	55	27	19	163
24	27	46	36	62	738	612	104	110	51	27	20	141
25	31	44	35	58	590	612	125	102	49	27	22	122
26	34	43	35	58	433	510	138	152	44	27	27	102
27	34	41	35	56	338	460	116	206	44	27	34	99
28	32	41	35	55	338	413	107	152	41	25	31	675
29	31	40	44	55	---	378	113	131	41	25	26	991
30	31	40	77	53	---	351	110	122	41	24	24	546
31	31	---	70	53	---	320	---	113	---	23	21	---
TOTAL	915	2229	1231	4199	6793	21022	5009	5149	2067	969	711	7101
MEAN	29.5	74.3	39.7	135	243	678	167	166	68.9	31.3	22.9	237
MAX	34	345	77	771	840	2280	308	371	104	43	34	1530
MIN	27	29	35	53	44	235	104	102	41	23	19	17
AC-FT	1810	4420	2440	8330	13470	41700	9940	10210	4100	1920	1410	14080

CAL YR 1976 TOTAL 221436 MEAN 605 MAX 22000 MIN 27 AC-FT 439200
WTR YR 1977 TOTAL 57395 MEAN 157 MAX 2280 MIN 17 AC-FT 113800

11469000 MATTOLE RIVER NEAR PETROLIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.
CHEMICAL ANALYSES: Water years 1959 to current year.
WATER TEMPERATURES: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1965 to current year.

INSTRUMENTATION.--Temperature recorder since November 1965.

REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading.

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 13, 14, 1972, June 26, 1973; minimum recorded, 3.0°C Jan. 9, 1969, Dec. 11, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum, 4.5°C Jan. 7, 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)
FEB 02...	1120	49	282	8.1	8.0	0	13.2	120

DATE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED BORON (B) (UG/L)
FEB 02...	30	8.2	.3	110	0	90	5.5	100

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	20.0	--	17.5	18.0	--	14.5	10.0	--	8.0	8.5	--	7.5	11.5	--	8.5	12.0	--	9.5
2	19.5	--	17.0	18.0	--	15.0	10.0	--	8.0	8.5	--	7.5	10.5	--	7.5	11.0	--	10.0
3	19.0	--	15.0	17.0	--	14.0	10.0	--	8.0	8.5	--	6.5	10.5	--	8.0	11.5	--	9.0
4	18.5	--	15.0	16.5	--	13.0	10.0	--	8.0	8.0	--	6.5	10.5	--	7.5	12.5	--	9.0
5	19.5	--	14.5	15.0	--	12.5	10.0	--	8.5	8.5	--	6.0	10.5	--	9.0	13.0	--	9.0
6	20.5	--	15.5	16.0	--	13.0	10.5	--	8.0	7.5	--	5.5	12.5	--	10.0	12.5	--	9.5
7	20.5	--	16.0	15.5	--	13.0	10.0	--	8.0	7.5	--	4.5	12.0	--	9.5	11.5	--	10.5
8	20.0	--	15.5	14.5	--	12.0	10.0	--	8.0	8.0	--	5.5	11.5	--	10.5	12.0	--	10.5
9	19.5	--	15.5	15.0	--	13.0	10.0	--	8.0	7.5	--	4.5	12.0	--	10.5	11.5	--	10.0
10	19.5	--	14.5	16.5	--	14.5	9.0	--	7.5	9.5	--	7.5	13.0	--	10.0	11.0	--	9.0
11	19.5	--	15.5	16.0	--	14.0	9.0	--	7.0	9.0	--	8.5	14.5	--	11.5	11.0	--	9.0
12	19.5	--	14.5	15.0	--	14.0	8.5	--	6.5	9.5	--	8.0	14.5	--	10.5	11.5	--	10.0
13	18.5	--	13.5	14.0	--	13.0	8.5	--	6.5	9.5	--	7.5	13.5	--	10.5	11.5	--	9.0
14	17.5	--	14.5	14.0	--	12.5	8.5	--	6.5	10.0	--	8.5	14.5	--	10.0	11.0	--	8.5
15	18.0	--	15.0	15.5	--	14.0	9.0	--	6.5	10.0	--	7.5	14.5	--	10.0	10.0	--	8.5
16	17.5	--	13.5	16.5	--	14.0	8.5	--	7.0	9.0	--	7.5	14.5	--	10.5	11.0	--	8.0
17	17.5	--	13.0	17.0	--	15.0	8.5	--	6.5	9.5	--	6.5	14.0	--	10.5	11.0	--	9.0
18	17.5	--	14.0	16.0	--	14.0	8.0	--	6.0	9.5	--	6.5	14.5	--	9.5	12.0	--	9.5
19	16.5	--	13.5	15.0	--	12.5	7.5	--	5.5	9.0	--	7.0	14.5	--	10.5	14.0	--	11.0
20	17.0	--	13.0	15.0	--	12.0	7.5	--	5.5	9.5	--	7.5	11.5	--	11.0	13.5	--	10.0
21	17.0	--	13.0	15.0	--	13.5	7.5	--	5.5	10.5	--	8.5	11.5	--	10.5	14.0	--	10.0
22	17.0	--	13.0	14.0	--	12.0	8.5	--	6.5	11.0	--	8.5	11.5	--	9.5	14.0	--	10.0
23	16.5	--	13.0	14.0	--	12.0	9.0	--	6.5	11.0	--	8.0	10.5	--	9.5	13.0	--	11.5
24	15.0	--	13.0	13.5	--	12.0	7.5	--	6.0	10.5	--	7.5	11.0	--	9.0	12.0	--	10.5
25	16.0	--	13.5	13.0	--	11.5	9.5	--	7.5	10.5	--	7.5	11.0	--	8.5	13.5	--	9.5
26	16.0	--	13.0	12.0	--	10.5	9.5	--	7.5	10.5	--	7.5	12.0	--	10.0	14.0	--	10.0
27	15.5	--	12.0	10.5	--	8.0	10.5	--	7.5	10.5	--	7.0	13.0	--	10.0	13.5	--	9.5
28	15.0	--	11.5	10.0	--	7.5	8.5	--	7.0	10.5	--	6.5	13.0	--	11.0	13.5	--	9.0
29	15.0	--	12.5	10.0	--	7.5	9.5	--	8.5	10.5	--	6.5	--	--	--	13.5	--	9.5
30	17.0	--	14.0	10.0	--	8.0	10.5	--	6.5	11.0	--	8.5	--	--	--	14.0	--	9.5
31	15.0	--	13.5	--	--	--	9.0	--	6.5	12.0	--	10.0	--	--	--	14.0	--	10.0
MONTH	20.5	--	11.5	18.0	--	7.5	10.5	--	5.5	12.0	--	4.5	14.5	--	7.5	14.0	--	8.0

11469000 MATTOLE RIVER NEAR PETROLIA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX		MIN	MAX		MIN	MAX		MIN	MAX		MIN	MAX		MIN	MAX		MIN
	DAILY			DAILY			DAILY			DAILY			DAILY			DAILY		
1	13.0	--	11.0	18.0	--	15.0	21.5	--	16.0	21.0	--	17.0	--	--	--	--	--	--
2	16.0	--	11.0	18.5	--	14.0	21.5	--	14.5	22.0	--	16.5	--	--	--	--	--	--
3	17.0	--	11.0	18.5	--	14.5	19.0	--	15.0	22.0	--	15.0	--	--	--	--	--	--
4	17.5	--	12.0	18.0	--	13.5	23.0	--	16.0	22.0	--	16.0	--	--	--	--	--	--
5	17.5	--	13.0	17.5	--	13.5	25.0	--	17.5	22.0	--	15.5	--	--	--	--	--	--
6	18.0	--	13.0	16.5	--	13.0	24.5	--	18.0	22.0	--	15.0	--	--	--	--	--	--
7	19.0	--	13.5	17.0	--	12.0	23.5	--	17.5	23.0	--	16.0	--	--	--	--	--	--
8	18.0	--	14.0	19.0	--	12.0	22.5	--	16.5	22.0	--	16.0	--	--	--	--	--	--
9	16.5	--	13.0	15.0	--	13.0	19.5	--	17.5	22.0	--	16.5	--	--	--	--	19.5	--
10	16.5	--	11.5	16.0	--	13.0	19.0	--	16.5	22.5	--	16.5	--	--	--	--	--	--
11	18.0	--	12.5	16.5	--	12.0	23.0	--	16.0	23.5	--	17.5	--	--	--	--	--	--
12	18.5	--	12.0	19.0	--	11.5	22.5	--	16.5	23.5	--	18.0	--	--	--	--	--	--
13	17.0	--	11.0	18.5	--	12.5	22.0	--	17.0	24.0	--	17.0	--	--	--	--	18.0	--
14	17.5	--	11.0	18.0	--	13.5	21.5	--	17.0	23.5	--	17.5	--	--	--	--	--	--
15	18.5	--	12.0	17.0	--	12.5	22.0	--	17.0	23.5	--	17.5	--	--	--	--	--	--
16	18.0	--	13.0	17.0	--	12.5	21.5	--	17.5	24.0	--	18.0	--	--	--	--	--	--
17	17.5	--	11.5	18.0	--	13.0	19.5	--	17.0	25.0	--	18.0	--	--	--	--	--	--
18	17.5	--	11.0	14.5	--	13.0	23.0	--	16.5	24.5	--	19.0	--	--	--	--	--	--
19	19.0	--	11.5	20.0	--	13.0	21.0	--	16.0	23.5	--	18.5	--	--	--	--	--	--
20	17.5	--	12.5	21.0	--	14.5	22.5	--	16.5	23.5	--	17.5	--	--	--	--	--	--
21	19.5	--	13.0	21.0	--	16.0	24.5	--	17.0	23.5	--	17.5	--	--	--	--	--	--
22	19.0	--	13.0	16.0	--	14.5	24.5	--	17.0	23.5	--	18.0	--	--	--	--	--	--
23	17.0	--	12.5	17.5	--	14.0	23.5	--	17.5	23.0	--	18.0	--	--	--	--	--	--
24	17.0	--	13.0	20.5	--	13.5	23.0	--	16.5	24.5	--	17.5	--	--	--	--	--	--
25	17.5	--	14.0	16.0	--	14.5	24.0	--	17.5	--	--	--	--	--	--	--	--	--
26	19.5	--	13.0	18.0	--	14.5	23.0	--	17.5	--	--	--	--	--	--	--	--	--
27	19.5	--	12.5	18.5	--	13.0	24.0	--	17.0	--	--	--	--	--	--	--	--	--
28	15.5	--	13.5	20.5	--	13.0	23.5	--	18.5	--	--	--	--	--	--	--	--	--
29	17.0	--	13.0	20.5	--	13.5	23.0	--	18.0	--	--	--	--	--	--	--	--	--
30	19.5	--	14.0	20.0	--	14.0	19.5	--	17.5	--	--	--	--	--	--	--	--	--
31	--	--	--	22.0	--	15.0	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	19.5	--	11.0	22.0	--	11.5	25.0	--	14.5	--	--	--	--	--	--	--	--	--

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, Mendocino National Forest, at Scott Dam near right bank of Eel River, 0.3 mi (0.5 km) downstream from Rice Fork, and 10.2 mi (16.4 km) northeast of town of Potter Valley.

DRAINAGE AREA.--289 mi^2 (749 km^2).

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 mean sea level (river-profile survey). Prior to Jan. 26, 1950, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete overflow type dam; storage began in December 1921. Usable capacity, 86,400 acre-ft (107 hm^3) between gage heights 1,822.4 ft (555.47 m), sill of outlet gate and 1,910.0 ft (582.17 m), top of spillway gates; dead storage, 397 acre-ft (490,000 m^3); spillway at gage height 1,900.0 ft (579.12 m). Water is released down Eel River to Van Arsdale Reservoir, from which it is diverted through tunnel to Potter Valley powerhouse; part is then used for irrigation and remainder flows into East Fork Russian River. Records given herein represent total contents.

COOPERATION.--Records furnished by Pacific Gas and Electric Co. in connection with a Federal Energy Regulatory Commission Project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 95,600 acre-ft (118 hm^3) May 13, 16, 1925, gage height, 1,910.8 ft (582.41 m); maximum gage height, 1,911.84 ft (582.729 m) Dec. 22, 1964, from floodmarks; minimum contents, 10 acre-ft (12,300 m^3) Dec. 9, 10, 1931, gage height, 1,822.5 ft (555.50 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 51,000 acre-ft (62.9 hm^3) Oct. 1, gage height, 1,891.65 ft (576.575 m); minimum, 9,010 acre-ft (11.1 hm^3) Jan. 20, gage height, 1,850.54 ft (564.045 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 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50560	33555	17516	9717	9291	13637	19584	22501	23145	20756	16262	11460
2	49936	32991	16895	10266	9315	13740	19721	22510	23115	20641	16120	11318
3	49313	32387	16232	10724	9357	13844	19874	22492	23086	20527	15947	11204
4	48681	31797	15593	10974	9417	13933	20002	22483	23059	20408	15771	11106
5	48165	31322	15006	10706	9465	14009	20132	22483	23030	20304	15593	11030
6	47536	31322	14510	10385	9519	14085	20381	22492	23010	20209	15398	10927
7	46909	30168	14037	10254	9579	14161	20572	22483	22991	20072	15252	10838
8	46315	29692	13486	10148	9729	14251	20844	22483	22955	19908	15071	10730
9	45715	29225	13096	10036	9900	14398	20985	22537	22860	19788	14907	10649
10	45121	28770	12910	9924	10024	14566	21146	22595	22698	19676	14736	10535
11	44534	28489	12745	9845	10130	14722	21308	22651	22595	19508	14566	10442
12	44360	28044	12554	9760	10216	14843	21452	22745	22492	19366	14419	10322
13	43733	27665	12370	9675	10309	14956	21569	22840	22398	19240	14265	10210
14	43125	27363	12173	9579	10379	15071	21695	22896	22295	19050	14106	10098
15	42541	27012	11204	9489	10460	15287	21786	22945	22295	18840	13954	10006
16	41947	26608	11848	9375	10535	15586	21859	23000	22220	18650	13802	9906
17	41377	26125	11671	9279	10604	15852	21942	23059	22109	18400	13692	9821
18	40905	25632	11510	9153	10680	16104	21978	23095	22025	18576	13540	9723
19	40558	24846	11375	9041	10750	16321	22052	23172	21933	18438	13389	9857
20	40219	24275	11286	9018	10850	16588	22089	23200	21868	18292	13230	9857
21	39812	23647	11204	9035	11834	16825	22136	23200	21777	18138	13082	9784
22	39267	22991	11088	9058	12394	17094	22163	23172	21695	17977	12922	9741
23	38656	22547	10934	9076	12718	17405	22211	23172	21605	17825	12766	9699
24	38071	21868	10781	9093	12957	17785	22247	23172	21506	17642	12599	9663
25	37575	21263	10631	9111	13135	18124	22285	23154	21407	17492	12467	9621
26	36954	20668	10491	9117	13276	18422	22313	23135	21299	17327	12652	9591
27	36390	20028	10328	9129	13410	18697	22340	23154	21218	17163	12173	9549
28	35783	19400	10185	9147	13519	18917	22389	23181	21110	16993	12043	9615
29	35293	18786	9944	9159	---	19124	22416	23200	20994	16818	11892	9796
30	34697	18163	9944	9177	---	19291	22453	23200	20887	16625	11769	9845
31	34103	---	9944	9213	---	19441	---	23172	---	16436	11625	---
MAX	50560	33555	17516	10974	13519	19441	22453	23200	23145	20756	16262	11460
MIN	34103	18163	9944	9018	9291	13637	19584	22483	20887	16436	11625	9549
(†)	1879.65	1863.91	1852.10	1850.89	1857.63	1865.47	1868.97	1869.63	1867.15	1861.70	1854.76	1851.94
(‡)	-16900	-15900	-8220	-731	+4310	+5920	+3010	+719	-2290	-4450	-4810	-1780

CAL YR 1976 ‡ -4740
WTR YR 1977 ‡ -41200

† 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, Mendocino National Forest, on left bank 0.4 mi (0.6 km) upstream from Soda Creek, 0.7 mi (1.1 km) downstream from Scott Dam, and 9.7 mi (15.6 km) northeast of town of Potter Valley.

DRAINAGE AREA.--290 mi^2 (751 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Hullville, and October 1929 to September 1953 as "at Hullville."

REVISED RECORDS.--WSP 1315-B: 1923(M), 1938(M). WSP 1395: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 1,740 ft (530 m), from topographic map. Prior to Dec. 15, 1930, at datum 3.00 ft (0.914 m) higher.

REMARKS.--Flow regulated by Lake Pillsbury (station 11470000) 0.7 mi (1.1 km) upstream. No diversion above station.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Energy Regulatory Commission Project.

AVERAGE DISCHARGE.--55 years, 542 ft^3/s (15.35 m^3/s), 392,700 acre-ft/yr (484 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,300 ft^3/s (1,590 m^3/s) Dec. 22, 1964, gage height, 24.24 ft (7.388 m) from floodmarks, from rating curve extended above 9,400 ft^3/s (266 m^3/s) on basis of computed flow over Scott Dam at gage heights 18.50 ft (5.639 m) and 21.85 ft (6.660 m); minimum daily, 0.1 ft^3/s (0.003 m^3/s) Sept. 8, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 307 ft^3/s (8.69 m^3/s) Nov. 24, gage height, 4.67 ft (1.423 m); minimum daily, 4.9 ft^3/s (0.14 m^3/s) Feb. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	298	296	72	10	13	12	39	35	57	75	56
2	295	296	296	72	8.7	11	9.5	52	35	57	64	56
3	294	295	291	72	7.8	9.7	9.5	52	35	56	69	48
4	294	293	286	72	7.8	9.8	9.3	52	35	56	74	35
5	293	292	260	72	7.7	10	9.1	52	35	56	74	34
6	292	291	222	72	7.1	11	8.7	49	35	56	73	34
7	291	273	219	72	6.0	11	8.4	46	35	58	73	34
8	291	240	220	72	6.8	11	8.0	46	46	60	73	34
9	290	239	180	72	6.0	11	7.6	43	55	60	73	36
10	289	238	95	72	5.1	11	7.5	38	55	60	73	39
11	288	179	94	72	5.9	11	7.4	29	55	60	70	39
12	293	235	94	72	5.5	11	7.5	14	55	60	65	39
13	296	235	93	72	6.0	11	7.6	14	55	59	65	39
14	295	232	93	72	6.9	11	7.7	14	55	59	65	39
15	294	227	88	72	6.8	12	14	14	55	59	65	39
16	293	226	83	72	6.5	13	22	14	54	59	59	39
17	292	259	83	72	5.9	12	22	14	55	59	51	40
18	248	287	83	72	5.1	12	21	14	55	63	58	39
19	182	289	58	72	4.9	11	21	25	54	66	65	40
20	181	296	25	46	5.0	12	22	33	54	66	65	39
21	219	300	25	25	8.8	12	22	33	54	68	64	39
22	288	298	47	25	7.3	12	22	33	54	70	64	31
23	292	299	72	25	7.5	12	22	33	55	70	64	20
24	296	304	72	25	7.8	13	22	41	57	70	64	20
25	294	305	72	25	7.7	13	22	51	57	70	64	20
26	293	302	72	25	9.1	13	22	44	57	70	61	20
27	295	299	72	25	11	13	22	35	57	70	57	21
28	297	298	72	24	13	13	22	35	57	77	57	21
29	296	299	72	24	---	13	22	35	57	83	57	21
30	295	296	72	22	---	13	22	35	57	83	57	21
31	296	---	72	14	---	14	---	36	---	83	57	---
TOTAL	8748	8220	3879	1673	203.7	365.5	461.8	1065	1510	2000	2015	1032
MEAN	282	274	125	54.0	7.28	11.8	15.4	34.4	50.3	64.5	65.0	34.4
MAX	297	305	296	72	13	14	22	52	57	83	75	56
MIN	181	179	25	14	4.9	9.7	7.4	14	35	56	51	20
AC-FT	17350	16300	7690	3320	404	725	916	2110	3000	3970	4000	2050

CAL YR 1976 TOTAL 45720.0 MEAN 125 MAX 305 MIN 23 AC-FT 90690
WTR YR 1977 TOTAL 31173.0 MEAN 85.4 MAX 305 MIN 4.9 AC-FT 61830

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.
WATER TEMPERATURES: Water years 1964 to current year.
SEDIMENT RECORDS: Water years 1966-67.
TURBIDITY: Water years 1966-67, 1969-71.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1963 to current year.

INSTRUMENTATION.--Temperature recorder since October 1963.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 24.0 Sept. 5-8, 1977; minimum recorded, 4.5°C on several days in 1969.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 24.0°C Sept. 5-8; minimum, 5.0°C Feb. 1, 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	18.0	14.0	14.0	11.5	11.5	6.5	6.5	6.5	5.0	9.0	7.0
2	18.5	18.5	14.0	14.0	11.5	11.5	6.5	6.5	6.0	5.0	8.0	6.0
3	19.0	19.0	14.0	14.0	11.5	11.0	6.5	6.5	6.5	5.5	9.5	7.0
4	19.0	19.0	14.0	13.5	11.0	11.0	6.5	6.5	6.5	5.5	9.5	6.0
5	19.0	19.0	14.0	13.5	11.0	11.0	6.5	6.0	6.5	5.5	10.0	6.0
6	19.5	19.0	14.0	13.5	11.0	10.5	6.0	6.0	7.0	6.0	10.0	6.5
7	19.5	19.5	---	---	10.5	10.5	6.0	6.0	7.0	5.5	9.5	8.0
8	19.5	19.5	---	---	10.5	10.5	6.0	6.0	7.0	6.5	10.5	8.5
9	19.5	19.5	---	---	10.5	10.0	6.0	6.0	8.0	6.5	10.0	9.0
10	19.5	19.0	---	---	10.0	10.0	6.0	5.5	9.0	6.5	11.0	7.0
11	19.5	19.0	---	---	10.0	10.0	5.5	5.5	9.5	6.5	10.0	8.0
12	19.5	19.0	---	---	10.0	10.0	5.5	5.5	9.5	6.5	10.0	9.0
13	19.0	19.0	---	---	10.0	9.5	5.5	5.5	10.5	7.0	10.5	8.5
14	19.0	19.0	---	---	9.5	9.5	5.5	5.5	10.5	7.0	10.0	8.0
15	19.0	18.5	---	---	9.5	9.5	5.5	5.5	10.0	7.0	9.5	8.0
16	19.0	18.5	---	---	9.5	9.5	5.5	5.5	10.0	7.0	9.5	7.0
17	19.0	18.5	---	---	9.5	9.0	5.5	5.5	10.0	7.0	10.5	8.0
18	19.0	18.5	---	---	9.0	9.0	5.5	5.5	9.5	7.0	10.5	7.0
19	18.5	18.0	15.0	15.0	9.0	8.5	5.5	5.5	10.0	7.0	11.5	8.5
20	18.0	17.0	15.0	14.5	8.5	8.0	5.5	5.5	9.0	8.0	12.0	9.0
21	17.0	17.0	14.5	14.5	8.0	8.0	5.5	5.5	9.0	8.5	12.0	8.5
22	17.0	17.0	14.5	14.5	8.0	8.0	5.5	5.5	9.5	8.0	13.0	9.0
23	17.0	16.5	14.5	14.5	8.0	8.0	5.5	5.5	9.5	8.5	10.5	9.0
24	16.5	16.5	14.5	14.5	8.0	8.0	5.5	5.5	9.0	7.0	9.5	8.0
25	16.5	16.5	14.5	14.0	8.0	7.0	5.5	5.5	9.5	7.0	11.5	8.5
26	16.5	16.0	14.0	14.0	7.0	7.0	5.5	5.5	9.5	7.0	13.0	8.5
27	16.0	16.0	14.0	13.5	7.0	7.0	6.0	5.5	10.0	7.0	12.0	9.0
28	16.0	15.0	13.5	13.0	7.0	7.0	6.0	5.5	9.5	8.5	12.0	8.5
29	15.0	14.5	13.0	12.0	7.0	7.0	6.0	5.5	---	---	12.0	9.0
30	14.5	14.5	12.0	11.5	7.0	7.0	6.0	5.5	---	---	13.0	9.0
31	14.5	14.0	---	---	7.0	6.5	6.5	5.5	---	---	13.0	9.0
MONTH	19.5	14.0	---	---	11.5	6.5	6.5	5.5	10.5	5.0	13.0	6.0

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	9.5	13.5	13.0	15.5	13.5	16.0	14.5	21.0	20.5	23.0	21.5
2	14.5	9.5	13.5	13.0	15.0	13.0	16.5	14.5	22.0	21.0	23.0	21.5
3	15.0	10.0	13.5	12.0	15.0	13.0	16.5	14.5	21.5	21.0	23.5	21.5
4	15.5	10.0	14.0	12.0	15.0	13.0	16.0	14.5	21.5	21.0	23.5	21.5
5	15.5	10.5	13.5	12.0	15.0	13.0	16.5	14.5	22.0	21.0	24.0	21.5
6	16.0	10.5	13.5	12.0	15.0	13.0	16.5	14.5	21.5	21.0	24.0	21.5
7	16.0	10.5	13.0	12.0	15.0	13.0	17.0	15.0	21.5	21.0	24.0	21.5
8	13.5	11.0	14.5	12.0	14.5	13.0	17.0	15.5	22.0	21.5	24.0	21.0
9	14.5	10.0	13.5	13.0	14.0	12.0	18.0	15.5	23.0	21.5	23.5	21.0
10	15.0	9.5	14.0	13.0	14.0	13.0	18.0	15.5	23.0	21.5	23.5	21.0
11	15.5	10.0	14.0	12.0	14.0	13.0	18.0	16.0	23.0	22.0	23.0	21.0
12	16.0	10.5	15.0	12.0	14.5	13.0	17.0	15.5	23.0	21.5	23.0	21.0
13	16.0	11.5	16.5	12.0	14.5	13.0	17.0	15.5	23.0	21.5	23.0	20.5
14	16.0	10.5	17.0	12.0	14.5	13.0	17.0	15.0	23.0	21.5	21.5	20.5
15	15.5	11.0	16.0	12.0	14.5	13.0	17.0	15.5	22.0	21.0	21.5	20.5
16	15.5	11.5	15.0	12.0	15.0	13.0	17.0	15.5	22.0	21.0	21.0	20.5
17	15.0	11.0	17.0	12.0	15.0	13.5	17.0	15.0	21.5	21.0	20.5	20.5
18	15.5	11.0	14.5	13.0	15.0	13.5	17.0	15.0	21.5	21.0	20.5	20.0
19	15.5	11.0	16.0	13.0	15.0	14.0	18.0	16.0	21.5	21.0	20.0	19.5
20	15.0	11.5	16.5	14.0	15.5	13.5	18.0	16.0	21.5	21.0	20.0	19.5
21	15.0	11.5	16.0	13.5	15.5	14.0	18.0	16.0	21.5	21.0	20.5	19.5
22	15.0	11.5	14.0	13.5	16.0	14.0	18.5	17.0	21.5	21.0	20.0	19.0
23	15.5	12.0	15.0	13.0	15.5	14.0	18.5	18.0	21.5	21.0	20.5	18.5
24	14.5	12.0	15.0	13.0	15.5	14.0	18.5	18.0	21.5	21.0	20.5	18.5
25	14.5	13.0	14.5	13.0	15.5	14.0	19.0	18.0	21.5	20.5	20.5	18.5
26	15.5	12.0	14.5	13.5	16.0	14.0	19.5	18.5	21.0	20.5	20.5	18.5
27	15.5	12.0	15.0	12.0	16.0	14.0	19.5	19.0	21.5	20.5	20.0	18.5
28	14.0	12.0	15.0	12.0	16.5	14.5	20.0	19.5	21.5	20.5	19.5	19.0
29	14.0	12.0	15.0	12.0	16.5	14.5	20.5	20.0	22.0	21.0	20.0	19.0
30	14.5	13.0	15.0	13.0	15.5	14.5	21.0	20.5	23.0	21.5	20.0	18.5
31	---	---	15.0	13.0	---	---	21.0	20.5	23.0	21.5	---	---
MONTH	16.0	9.5	17.0	12.0	16.5	12.0	21.0	14.5	23.0	20.5	24.0	18.5

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, on right bank 100 ft (30 m) downstream from powerhouse of Pacific Gas and Electric Co., 1.8 mi (2.9 km) southwest of Van Arsdale Dam, and 2.9 mi (4.7 km) northwest of town of Potter Valley.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1909 to current year. Prior to October 1922, monthly discharge only, published in WSP 1315-B. Prior to October 1931, published as Snow Mountain Water and Power Co.'s tailrace near Potter Valley.

REVISED RECORDS.--WSP 1395: 1950.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 1,020 ft (311 m), from topographic map. No gage prior to Dec. 1, 1922. Dec. 1, 1922, to Sept. 30, 1923, nonrecording gage and Oct. 1, 1923, to Apr. 12, 1950, water-stage recorder, at site 50 ft (15 m) upstream at different datum.

REMARKS.--Water is diverted from Eel River above Van Arsdale Dam. After passing through powerhouse, part of it is used for irrigation in Potter Valley and remainder flows into East Fork Russian River. Water for irrigation diverted from tailrace is included in figures of discharge.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Energy Regulatory Commission Project.

AVERAGE DISCHARGE.--67 years (water years 1911-77), 201 ft^3/s (5.692 m^3/s), 145,600 acre-ft/yr (180 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD (1922 TO CURRENT YEAR).--Maximum daily discharge, 348 ft^3/s (9.86 m^3/s) Apr. 24, 1953; no flow at times in several years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	288	289	288	69	3.2	18	19	47	36	55	70	45
2	287	287	291	95	2.1	13	23	54	37	54	65	46
3	283	286	285	114	2.0	16	9.8	49	39	53	62	42
4	284	283	282	86	5.9	10	14	56	39	53	62	37
5	282	282	265	77	8.6	10	15	56	36	53	62	32
6	281	282	215	72	5.2	11	13	49	36	53	67	32
7	230	274	213	71	6.1	10	14	50	38	55	69	32
8	279	228	211	70	7.9	11	14	49	38	57	69	32
9	278	229	204	68	11	14	12	49	52	57	69	34
10	276	231	87	70	9.2	26	11	49	46	57	69	35
11	276	169	83	67	6.4	19	9.7	45	52	55	70	35
12	270	226	84	76	6.1	16	8.8	28	54	56	64	36
13	282	227	83	75	6.1	18	10	18	54	56	63	37
14	273	228	83	72	6.4	20	10	21	52	56	59	38
15	280	226	83	70	5.7	18	11	17	54	56	56	38
16	281	222	72	72	4.8	41	22	15	52	55	55	35
17	279	239	73	69	3.8	39	27	19	52	55	49	31
18	260	283	75	67	3.1	42	24	19	54	56	46	26
19	169	281	74	69	3.2	37	21	26	51	65	48	30
20	166	288	49	66	3.2	36	23	38	51	66	50	32
21	178	294	43	27	43	31	24	37	51	66	54	30
22	277	292	45	26	56	16	23	37	52	67	55	31
23	279	292	62	23	30	20	27	39	53	68	55	29
24	285	297	68	27	33	28	25	48	54	69	54	21
25	284	300	65	23	21	45	24	50	54	69	54	18
26	282	297	66	28	12	50	21	50	54	69	53	18
27	282	289	64	23	10	49	22	38	54	69	54	17
28	285	290	67	23	14	43	26	39	54	69	54	20
29	282	294	64	25	---	35	30	39	55	69	54	22
30	285	289	72	24	---	31	35	38	55	69	56	20
31	285	---	66	14	---	26	---	39	---	69	48	---
TOTAL	8308	7994	3782	1758	329.0	799	568.3	1208	1459	1876	1815	931
MEAN	268	266	122	56.7	11.8	25.8	18.9	39.0	48.6	60.5	58.5	31.0
MAX	288	300	291	114	56	50	35	56	55	69	70	46
MIN	166	169	43	14	2.0	10	8.8	15	36	53	46	17
AC-FT	16480	15860	7500	3490	653	1580	1130	2400	2890	3720	3600	1850

CAL YR 1976	TOTAL	51681.0	MEAN 141	MAX 304	MIN	36	AC-FT	102500	
WTR YR 1977	TOTAL	30827.3	MEAN 84.5	MAX 300	MIN	2.0	AC-FT	61150	

NOTE.--No gage-height record June 18 to Aug. 15.

11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952 to current year.
CHEMICAL ANALYSES: Water years 1952-66. Published as "East Fork Russian River at Potter Valley" in 1952-59.
WATER TEMPERATURES: Water years 1964 to current year.
SEDIMENT RECORDS: Water years 1964-68.
TURBIDITY: Water years 1964-71.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: September 1965 to current year.
SEDIMENT RECORDS: March 1964 to May 1968.

INSTRUMENTATION.--Temperature recorder since September 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 27.0°C July 30, 31, 1977; minimum, 2.0°C Jan. 9, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C July 30, 31; minimum, 2.0°C Jan. 9.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	19.0	16.5	14.5	9.5	8.0	5.5	4.5	7.0	6.0	9.0	8.0
2	19.5	19.0	16.5	14.5	9.5	8.0	5.0	4.5	8.0	6.5	---	---
3	20.0	17.5	16.5	13.5	9.5	8.0	5.5	4.5	7.0	6.5	---	---
4	20.0	17.0	15.5	13.5	9.0	7.5	5.0	4.0	7.5	6.5	---	---
5	20.0	17.5	15.5	13.5	8.5	7.5	4.5	3.5	7.0	6.5	10.0	9.0
6	20.5	17.5	15.5	14.0	8.5	7.0	4.5	3.0	7.5	7.0	10.5	9.0
7	20.5	17.5	15.5	13.5	7.5	7.0	4.0	2.5	8.5	7.5	10.5	10.5
8	20.0	17.5	15.0	13.0	8.0	6.5	4.0	2.5	9.5	8.5	11.5	10.0
9	19.5	17.0	14.5	13.5	8.0	7.0	3.5	2.0	9.5	9.0	11.5	9.5
10	19.5	16.5	15.5	14.5	7.0	6.0	5.0	3.0	9.5	9.0	10.0	9.0
11	19.5	17.0	15.5	14.5	7.0	6.0	5.5	4.0	10.0	8.5	10.0	9.0
12	19.5	16.5	15.0	14.0	6.5	5.0	6.5	5.5	10.0	9.0	10.0	9.0
13	19.0	16.0	14.5	13.5	6.5	5.0	6.5	5.5	---	---	9.5	8.5
14	19.0	16.0	14.5	14.0	5.5	4.5	6.0	4.5	---	---	9.5	8.5
15	18.5	15.5	15.5	14.5	6.0	4.5	5.5	4.0	---	---	9.0	8.0
16	18.5	16.0	15.0	13.5	6.0	4.5	5.5	4.0	---	---	8.0	6.5
17	18.5	15.5	14.5	13.0	5.5	4.0	5.0	3.5	---	---	9.5	7.0
18	18.0	15.5	14.5	13.0	5.0	3.5	5.0	3.0	---	---	10.0	8.5
19	17.5	15.0	14.0	12.5	5.0	3.5	5.5	3.5	---	---	11.0	9.0
20	16.5	14.5	14.0	12.0	5.0	3.5	6.5	4.5	11.0	9.0	12.0	8.5
21	17.0	15.0	14.0	12.5	4.5	3.5	7.0	6.0	11.0	9.0	12.0	10.5
22	17.5	16.0	13.5	12.0	5.0	4.0	7.5	6.5	10.0	8.0	12.5	11.5
23	17.5	15.5	13.0	11.5	5.5	4.5	8.0	6.5	9.5	8.5	13.0	11.5
24	17.0	15.0	12.5	11.5	5.0	3.5	7.5	6.0	8.5	8.0	11.5	9.5
25	17.5	16.0	12.5	11.0	6.0	4.5	7.0	5.5	8.0	7.5	11.5	8.5
26	17.0	15.0	12.0	10.0	5.5	4.0	6.5	5.0	9.0	8.0	12.5	9.0
27	16.5	14.5	10.5	9.0	5.0	3.0	6.0	5.0	10.0	8.0	13.0	11.0
28	16.5	14.0	10.0	9.0	5.0	3.5	6.0	4.5	10.0	9.0	12.0	10.5
29	16.0	14.5	10.0	8.5	6.5	4.5	6.0	4.5	---	---	11.5	10.0
30	16.0	14.5	10.0	8.5	6.5	6.0	6.0	4.5	---	---	12.0	10.0
31	16.0	14.5	---	---	6.5	5.0	6.0	5.5	---	---	12.0	10.5
MONTH	20.5	14.0	16.5	8.5	9.5	3.0	8.0	2.0	---	---	13.0	6.5

11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CA

LOCATION.--Lat 39°23'19", long 123°06'54", in NE¼ sec.30, T.18 N., R.11 W., Mendocino County, on left bank 1,000 ft (305 m) downstream from Van Arsdale Dam, and 4.6 mi (7.4 km) north of town of Potter Valley.

DRAINAGE AREA.--349 mi^2 (904 km^2).

WATER-DISCHARGE RECORDS

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).--68 years (water years 1910-77), 635 ft^3/s (17.98 m^3/s), 460,100 acre-ft/yr (567 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,100 ft^3/s (1,820 m^3/s) Dec. 22, 1964, gage height, 33.9 ft (10.33 m) from floodmarks; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 407 ft^3/s (11.5 m^3/s) Oct. 7, gage height, 8.43 ft (2.569 m); minimum daily, 1.1 ft^3/s (0.031 m^3/s) Aug. 14, 18, Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.0	2.9	2.6	9.2	2.3	3.1	2.5	2.5	2.4	4.7	1.2
2	1.3	2.0	2.9	9.1	12	3.7	3.2	2.3	2.6	2.6	4.8	1.2
3	1.3	2.1	2.9	8.9	7.2	13	2.7	2.5	2.6	2.6	4.6	1.1
4	1.3	2.0	2.9	2.7	5.3	11	2.6	2.4	2.5	2.6	4.4	1.5
5	1.3	2.0	2.9	2.7	1.9	12	2.6	2.2	2.5	2.7	4.6	2.6
6	1.3	2.0	2.9	3.1	1.6	14	2.6	2.1	2.5	2.7	4.6	2.6
7	76	2.0	2.9	2.9	1.8	16	2.8	3.8	2.5	2.8	4.3	2.5
8	1.3	2.1	2.9	2.9	2.4	12	2.4	2.5	2.5	3.1	4.4	2.5
9	1.5	3.6	3.1	2.9	8.8	4.5	2.5	6.3	2.1	3.2	4.4	2.3
10	1.5	2.2	2.9	3.1	2.3	7.2	2.3	3.8	2.4	3.2	4.6	2.2
11	1.5	8.1	3.4	3.0	2.2	3.7	2.1	2.6	2.6	3.2	4.7	2.2
12	7.3	5.5	2.9	3.1	2.1	3.7	2.4	2.5	2.6	3.0	3.3	2.2
13	9.5	7.2	2.9	2.8	1.9	3.4	2.5	2.5	2.5	2.6	1.2	2.1
14	2.1	26	3.0	2.4	2.0	3.2	2.4	2.5	2.5	2.5	1.1	2.1
15	2.1	3.2	3.3	2.1	2.1	3.3	2.4	2.4	2.5	2.5	1.9	2.0
16	2.1	2.2	3.0	2.0	2.3	3.5	2.4	2.4	2.5	2.5	1.8	2.0
17	2.0	2.6	3.0	2.0	2.3	3.5	2.4	2.5	2.7	2.7	1.5	2.1
18	2.0	2.3	3.5	2.1	2.3	3.3	2.3	2.5	2.8	2.6	1.1	1.8
19	2.0	2.2	3.0	2.1	2.4	3.0	2.4	2.5	2.8	2.6	1.5	2.1
20	1.9	2.2	2.3	2.0	2.4	3.2	2.5	2.4	2.7	2.3	2.5	1.7
21	4.3	2.2	2.7	2.0	9.5	11	2.5	2.4	2.6	2.3	2.5	1.4
22	2.5	2.3	3.0	1.9	2.8	18	2.5	2.4	2.5	2.4	2.4	1.5
23	2.0	2.4	6.5	1.8	2.4	16	2.5	2.5	2.5	2.5	2.4	1.5
24	2.0	2.4	2.4	1.8	2.5	24	2.4	2.4	2.7	2.5	2.4	1.4
25	2.1	2.4	2.4	1.8	2.3	27	2.2	2.2	2.8	2.5	2.4	1.4
26	2.1	2.4	2.4	1.7	2.3	16	2.2	2.5	2.8	2.2	2.4	1.4
27	2.1	7.1	2.4	1.7	2.4	6.0	2.5	2.2	2.8	2.0	2.4	1.3
28	2.1	2.4	2.4	1.8	2.7	3.9	2.5	2.5	2.6	2.1	2.4	1.5
29	7.4	2.6	2.5	1.8	---	2.8	2.4	2.6	2.5	3.0	2.4	1.4
30	2.1	2.9	2.7	1.7	---	2.7	2.4	2.5	2.4	3.9	2.0	1.2
31	2.0	---	2.5	1.9	---	2.7	---	2.5	---	4.5	1.3	---
TOTAL	152.0	112.6	91.4	84.4	101.4	259.6	74.7	81.9	77.1	84.3	91.0	54.0
MEAN	4.90	3.75	2.95	2.72	3.62	8.37	2.49	2.64	2.57	2.72	2.94	1.80
MAX	76	26	6.5	9.1	12	27	3.2	6.3	2.8	4.5	4.8	2.6
MIN	1.3	2.0	2.3	1.7	1.6	2.3	2.1	2.1	2.1	2.0	1.1	1.1
AC-FT	301	223	181	167	201	515	148	162	153	167	180	107

CAL YR 1976	TOTAL 5671.5	MEAN 15.5	MAX 1140	MIN 1.3	AC-FT 11250			
WTR YR 1977	TOTAL 1264.4	MEAN 3.46	MAX 76	MIN 1.1	AC-FT 2510			

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1972-75, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
AUG 02...	1000	4.8	269	7.8	25.0	7.9	.01	.00	.01	.00	.21	.21

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)
AUG 02...	.01	.00	.00	2	1	1	7	<10	<10	0	<1	0

DATE	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)
AUG 02...	9	0	<50	<50	0	5	<10	<9	1	10	<100	<99

DATE	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	POLYCHLORINATED NAPHTHALENES (UG/L)
AUG 02...	1	10	.0	.0	.0	.0	10	0	20	13	1.7	.00

DATE	TOTAL PCB (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLORDANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DIAZINON (UG/L)	TOTAL DIELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTACHLOR (UG/L)	TOTAL HEPTACHLOR EPOXIDE (UG/L)
AUG 02...	.0	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL METHYL TRITHION (UG/L)	TOTAL MIREX (UG/L)	TOTAL PARATHION (UG/L)	TOTAL TOXAPHENE (UG/L)	TOTAL TRITHION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
AUG 02...	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

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, on left bank 1,100 ft (335 m) upstream from Outlet Creek, and 6.3 mi (10.1 km) south of Dos Rios.

DRAINAGE AREA.--528 mi^2 (1,368 km^2).

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) above mean sea level.

REMARKS.--Records 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.--11 years, 963 ft^3/s (27.27 m^3/s), 697,700 acre-ft/yr (860 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,500 ft^3/s (1,850 m^3/s) Jan. 16, 1974, gage height, 33.64 ft (10.253 m), from rating curve extended above 26,000 ft^3/s (736 m^3/s) on basis of slope-area measurement of peak flow; no flow many days in 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 45.52 ft (13.874 m) from information by local resident, discharge, 100,000 ft^3/s (2,830 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 358 ft^3/s (10.1 m^3/s) Mar. 16, gage height, 3.69 ft (1.125 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	4.6	9.0	18	11	34	42	16	14	.90	0	0
2	7.1	7.3	8.2	42	11	33	37	22	11	.71	0	0
3	6.6	6.5	8.2	103	11	28	36	24	12	.43	0	0
4	5.8	5.1	8.2	103	15	25	33	24	11	.25	0	0
5	5.8	4.6	8.2	59	17	24	32	21	9.9	.15	0	0
6	5.1	4.6	8.2	39	15	21	30	21	8.2	.05	0	0
7	5.1	4.6	8.2	29	13	18	28	18	8.2	0	0	0
8	16	3.7	8.2	24	17	18	29	16	6.5	0	0	0
9	30	3.7	8.2	19	26	39	32	16	5.7	0	0	0
10	12	3.7	8.2	19	29	47	30	18	6.5	0	0	0
11	7.3	7.3	8.2	18	28	49	25	24	5.7	0	0	0
12	5.1	12	8.2	26	22	45	24	30	6.5	0	0	0
13	3.7	15	8.2	29	18	45	21	29	6.5	0	0	0
14	3.3	40	8.2	28	16	44	18	24	5.7	0	0	0
15	2.9	45	8.2	25	14	92	19	19	4.6	0	0	0
16	6.5	37	8.2	21	13	326	18	17	4.6	0	0	0
17	5.7	24	8.2	18	13	271	16	16	3.7	0	.10	0
18	4.6	16	8.2	18	13	182	15	16	3.3	0	.33	0
19	4.1	13	8.2	17	12	115	14	17	2.9	0	.33	26
20	3.7	11	8.2	16	13	86	14	18	2.9	0	.15	36
21	3.7	9.9	8.2	16	73	67	13	17	2.9	0	.05	22
22	3.7	9.0	7.3	16	164	59	13	16	2.9	0	0	14
23	3.7	9.0	7.3	15	103	64	12	15	2.6	0	0	8.2
24	3.7	8.2	7.3	14	88	113	12	16	2.3	0	0	5.7
25	3.7	7.3	7.3	14	69	205	12	16	2.0	0	0	4.1
26	4.1	7.3	9.9	13	52	149	12	18	2.0	0	0	3.7
27	4.6	7.3	9.9	12	42	99	12	21	1.4	0	0	3.3
28	4.6	7.3	8.2	12	36	76	13	21	1.1	0	0	7.3
29	4.6	8.2	7.3	12	---	64	13	18	.90	0	0	26
30	4.6	9.0	16	12	---	56	12	17	.90	0	0	25
31	4.6	---	18	12	---	49	---	15	---	0	0	---
TOTAL	194.0	351.2	271.5	819	954	2543	637	596	158.40	2.49	.96	181.3
MEAN	6.26	11.7	8.76	26.4	34.1	82.0	21.2	19.2	5.28	.080	.031	6.04
MAX	30	45	18	103	164	326	42	30	14	.90	.33	36
MIN	2.9	3.7	7.3	12	11	18	12	15	.90	0	0	0
AC-FT	385	697	539	1620	1890	5040	1260	1180	314	4.9	1.9	360

CAL YR 1976	TOTAL	63328.80	MEAN	173	MAX	7860	MIN 2.9	AC-FT 125600
WTR YR 1977	TOTAL	6708.85	MEAN	18.4	MAX	326	MIN 0	AC-FT 13310

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 to September 1977 (discontinued).
SEDIMENT RECORDS: Water years 1967 to September 1977 (discontinued).
TURBIDITY: Water years 1967-68.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1966 to September 1977 (discontinued).
SEDIMENT RECORDS: October 1966 to September 1977 (discontinued).

REMARKS.--Zero bedload discharge was estimated for current year. 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.--The letter "A" following a date indicates chemical-quality data were furnished by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum observed, 31.0°C July 17, 1972; minimum observed, 1.0°C Dec. 12, 1972.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,740 mg/L Jan. 16, 1974; minimum daily mean, 0 mg/L on many days in 1969-70, 1973, 1977.
SEDIMENT DISCHARGE: Maximum daily, 729,000 tons (661,000 tonnes) Jan. 16, 1974; minimum daily, 0 tons (0 tonnes) on many days in 1969-70, 1973, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum observed, 3.0°C Dec. 21, Jan. 6.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 58 mg/L Mar. 16; minimum daily mean, no flow for many days.
SEDIMENT DISCHARGE: Maximum daily, 51 tons (46 tonnes) Mar. 16; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT										
06...A	0940	5.4	260	8.0	18.0	0	8.6	--	--	--
NOV										
09...A	1410	3.7	270	8.1	13.0	1	10.6	--	--	--
DEC										
08...A	1115	8.2	295	8.0	5.0	0	12.5	--	--	130
JAN										
06...A	1320	37	258	8.2	5.5	1	13.1	--	--	120
FEB										
03...A	1215	11	289	8.3	7.5	0	12.8	--	--	120
MAR										
09...A	0930	29	--	8.1	9.5	4	10.2	2	1.2	110
APR										
06...A	0945	30	251	8.0	16.0	0	10.2	--	--	110
MAY										
04...A	0800	25	275	8.2	12.5	0	10.4	--	--	120
JUN										
15...A	0830	4.6	281	8.0	21.0	0	8.0	--	--	120
JUL										
13...A	0800	.00	305	8.0	21.0	0	5.9	--	--	120
AUG										
02...	1245	.00	294	8.4	26.0	--	11.1	--	--	120
SEP										
21...A	0755	25	--	7.9	16.5	0	8.5	3	.6	120

DATE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT										
06...	--	--	--	--	--	--	--	--	--	--
NOV										
09...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	17	32	12	11	16	.4	.9	130	2	110
JAN										
06...	22	--	--	11	--	.4	--	120	0	98
FEB										
03...	13	--	--	11	--	.4	--	130	0	110
MAR										
09...	12	--	--	11	--	.5	--	120	0	98
APR										
06...	12	--	--	9.7	--	.4	--	120	0	98
MAY										
04...	13	--	--	12	--	.5	--	130	0	110
JUN										
15...	13	--	--	13	--	.5	--	130	0	110
JUL										
13...	5	--	--	14	--	.6	--	140	0	120
AUG										
02...	11	31	9.7	15	21	.6	1.7	130	0	110
SEP										
21...	30	--	--	16	--	.6	--	110	0	90

11472150 EEL RIVER NEAR DOS RIOS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SUS-PENDED SOLIDS (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
OCT										
06...	--	--	--	--	--	--	--	--	--	--
NOV										
09...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	25	9.1	--	--	167	158	.23	3.70	--	--
JAN										
06...	--	8.7	--	--	--	--	--	--	--	.09
FEB										
03...	--	9.6	--	--	--	--	--	--	--	.00
MAR										
09...	--	9.0	--	--	--	--	--	--	14	.01
APR										
06...	--	6.4	--	--	--	--	--	--	--	.02
MAY										
04...	--	8.1	--	--	--	--	--	--	--	.01
JUN										
15...	--	8.7	--	--	--	--	--	--	--	.00
JUL										
13...	--	11	--	--	--	--	--	--	--	.02
AUG										
02...	31	12	.1	11	--	177	.24	.00	--	.02
SEP										
21...	--	14	--	--	--	--	--	--	0	.04

DATE	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT									
06...	--	--	--	--	--	--	--	--	--
NOV									
09...	--	--	--	--	--	--	--	--	--
DEC									
08...	--	--	--	--	--	--	.00	.00	600
JAN									
06...	--	--	--	--	--	--	.00	.00	900
FEB									
03...	--	--	.00	.10	.10	.07	.00	.00	800
MAR									
09...	--	--	.01	.10	.11	.04	.00	.00	700
APR									
06...	--	--	.03	.10	.13	.00	.00	.00	600
MAY									
04...	--	--	.00	.10	.10	.00	.00	.00	700
JUN									
15...	--	--	.00	.10	.10	.01	.00	.00	1100
JUL									
13...	--	--	.03	.10	.13	.02	.00	.00	1000
AUG									
02...	.00	.02	.01	.16	.17	.03	.00	.00	1000
SEP									
21...	--	--	.03	.20	--	.02	.00	.00	1300

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)
MAR										
09...A	0930	--	--	0	--	100	--	--	0	--
AUG										
02...	1245	1	1	0	7	--	<10	<10	0	<1
SEP										
21...A	0755	--	--	0	--	0	--	--	0	--

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)
MAR										
09...	--	0	--	--	--	--	--	--	--	--
AUG										
02...	15	--	10	0	<50	<50	0	5	<10	<9
SEP										
21...	--	0	--	--	--	--	--	--	--	--

11472150 EEL RIVER NEAR DOS RIOS, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)
MAR										
09...	0	--	30	--	--	0	--	0	.1	--
AUG										
02...	1	16	20	<100	<99	1	10	--	.0	.0
SEP										
21...	0	--	10	--	--	0	--	0	.0	--

DATE	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
MAR									
09...	--	--	10	--	--	--	--	2.0	.00
AUG									
02...	.0	.0	--	10	4	6	19	1.3	--
SEP									
21...	--	--	0	--	--	0	--	3.1	.00

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	6.5	5.0	10.0	11.0	14.0	16.0	---		---	---
2	---	---	---	6.0	---	10.0	---	---	---		26.0	---
3	20.5	---	---	6.0	12.0	12.0	---	17.0	---		---	---
4	---	---	---	5.0	---	12.0	16.0	---	---		---	---
5	---	---	---	5.0	---	---	---	15.0	---		---	---
6	16.5	---	---	3.0	---	---	---	---	---		---	---
7	---	---	---	4.5	---	11.0	---	14.0	---		---	---
8	18.5	---	6.0	5.0	11.0	---	16.0	---	---		---	---
9	---	---	---	6.0	10.0	11.5	16.0	15.0	---		---	---
10	---	---	---	6.0	11.0	7.0	---	---	---		---	---
11	---	13.0	---	---	---	9.5	---	---	---		---	---
12	---	---	---	7.0	---	9.0	18.0	---	---		---	---
13	21.0	---	---	6.0	---	---	---	20.0	---		---	---
14	---	---	---	9.0	---	---	---	---	---		---	---
15	---	---	5.0	---	15.0	8.0	18.5	---	---		---	---
16	---	---	---	---	---	7.5	---	---	---		---	---
17	---	---	---	---	---	6.0	---	19.0	---		---	---
18	19.0	---	---	7.0	15.0	12.0	---	---	---		---	---
19	---	---	---	---	---	10.0	20.0	---	---		---	---
20	---	---	---	---	12.0	15.0	---	---	---		---	---
21	17.0	---	3.0	9.0	12.0	13.0	---	---	---		---	---
22	---	14.0	4.0	---	10.0	13.0	---	---	24.0		---	---
23	---	---	---	---	10.0	12.0	20.0	---	---		---	---
24	---	13.0	---	---	9.0	12.0	---	---	---		---	---
25	---	---	---	10.0	10.0	10.0	---	---	---		---	---
26	16.0	---	5.0	7.0	11.0	15.0	---	---	---		---	---
27	---	---	---	---	---	13.0	---	---	---		---	---
28	---	---	---	10.0	10.0	11.0	17.0	---	---		---	---
29	---	---	5.0	---	---	---	---	---	---		---	---
30	---	---	6.5	---	---	13.5	18.0	---	---		---	16.5
31	16.0	---	---	---	---	---	---	---	---		---	---
MONTH	---	---	---	---	---	---	---	---	---		---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
FEB							
21...	1705	12.0	128	34	12	95	100
22...	1630	11.0	174	52	24	98	100
23...	1010	10.0	103	19	5.3	94	100
MAR							
15...	1635	8.0	128	77	27	98	100

11472150 EEL RIVER NEAR DOS RIOS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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	8.0	2	.04	4.6	1	.01	9.0	2	.05
2	7.1	1	.02	7.3	3	.06	8.2	2	.04
3	6.6	1	.02	6.5	2	.04	8.2	2	.04
4	5.8	1	.02	5.1	1	.01	8.2	2	.04
5	5.8	2	.03	4.6	1	.01	8.2	2	.04
6	5.1	2	.03	4.6	1	.01	8.2	2	.04
7	5.1	1	.01	4.6	1	.01	8.2	2	.04
8	16	1	.04	3.7	1	.01	8.2	2	.04
9	30	15	1.2	3.7	1	.01	8.2	2	.04
10	12	11	.36	3.7	1	.01	8.2	2	.04
11	7.3	9	.18	7.3	4	.08	8.2	2	.04
12	5.1	7	.10	12	5	.16	8.2	2	.04
13	3.7	5	.05	15	7	.28	8.2	1	.02
14	3.3	3	.03	40	21	2.3	8.2	1	.02
15	2.9	2	.02	45	23	2.8	8.2	1	.02
16	6.5	5	.09	37	15	1.5	8.2	1	.02
17	5.7	2	.03	24	8	.52	8.2	1	.02
18	4.6	1	.01	16	6	.26	8.2	1	.02
19	4.1	1	.01	13	5	.18	8.2	1	.02
20	3.7	1	.01	11	4	.12	8.2	1	.02
21	3.7	1	.01	9.9	3	.08	8.2	1	.02
22	3.7	1	.01	9.0	3	.07	7.3	2	.04
23	3.7	1	.01	9.0	2	.05	7.3	2	.04
24	3.7	1	.01	8.2	1	.02	7.3	1	.02
25	3.7	1	.01	7.3	1	.02	7.3	1	.02
26	4.1	1	.01	7.3	1	.02	9.9	1	.03
27	4.6	1	.01	7.3	1	.02	9.9	1	.03
28	4.6	1	.01	7.3	1	.02	8.2	1	.02
29	4.6	1	.01	8.2	1	.02	7.3	2	.04
30	4.6	1	.01	9.0	2	.05	16	3	.13
31	4.6	1	.01	---	---	---	18	3	.15
TOTAL	194.0	---	2.41	351.2	---	8.75	271.5	---	1.19

	JANUARY			FEBRUARY			MARCH		
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	18	2	.10	11	2	.06	34	2	.18
2	42	17	2.3	11	1	.03	33	1	.09
3	103	20	5.7	11	1	.03	28	6	.45
4	103	11	3.1	15	2	.08	25	5	.34
5	59	5	.80	17	6	.28	24	4	.26
6	39	3	.32	15	5	.20	21	2	.11
7	29	3	.23	13	4	.14	18	1	.05
8	24	2	.13	17	6	.28	18	1	.05
9	19	3	.15	26	2	.14	39	5	.73
10	19	2	.10	29	1	.08	47	4	.51
11	18	2	.10	28	1	.08	49	2	.26
12	26	4	.28	22	1	.06	45	3	.36
13	29	4	.31	18	1	.05	45	3	.36
14	28	2	.15	16	1	.04	44	3	.36
15	25	2	.14	14	1	.04	92	37	16
16	21	1	.06	13	1	.04	326	58	51
17	18	1	.05	13	1	.04	271	17	12
18	18	1	.05	13	1	.04	182	14	6.9
19	17	1	.05	12	1	.03	115	9	2.8
20	16	2	.09	13	1	.04	86	5	1.2
21	16	3	.13	73	18	4.9	67	3	.54
22	16	2	.09	164	39	18	59	2	.32
23	15	2	.08	103	19	5.3	64	2	.35
24	14	2	.08	88	12	2.9	113	6	1.8
25	14	2	.08	69	8	1.5	205	7	3.9
26	13	2	.07	52	6	.84	149	4	1.6
27	12	1	.03	42	4	.45	99	4	1.1
28	12	1	.03	36	3	.29	76	3	.62
29	12	1	.03	---	---	---	64	3	.52
30	12	1	.03	---	---	---	56	2	.30
31	12	2	.06	---	---	---	49	2	.26
TOTAL	819	---	14.92	954	---	35.96	2543	---	105.32

11472150 EEL RIVER NEAR DOS RIOS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	42	1	.11	16	2	.09	14	1	.04
2	37	1	.10	22	2	.12	11	1	.03
3	36	1	.10	24	2	.13	12	1	.03
4	33	1	.09	24	2	.13	11	1	.03
5	32	1	.09	21	2	.11	9.9	1	.03
6	30	1	.08	21	3	.17	8.2	1	.02
7	28	1	.08	18	3	.15	8.2	1	.02
8	29	1	.08	16	3	.13	6.5	1	.02
9	32	1	.09	16	2	.09	5.7	1	.02
10	30	1	.08	18	3	.15	6.5	2	.04
11	25	1	.07	24	10	.65	5.7	1	.02
12	24	1	.06	30	9	.73	6.5	2	.04
13	21	1	.06	29	8	.63	6.5	1	.02
14	18	1	.05	24	7	.45	5.7	1	.02
15	19	2	.10	19	6	.31	4.6	1	.01
16	18	2	.10	17	5	.23	4.6	1	.01
17	16	2	.09	16	5	.22	3.7	1	.01
18	15	2	.08	16	4	.17	3.3	1	.01
19	14	2	.08	17	3	.14	2.9	1	.01
20	14	2	.08	18	3	.15	2.9	1	.01
21	13	2	.07	17	2	.09	2.9	1	.01
22	13	2	.07	16	2	.09	2.9	1	.01
23	12	2	.06	15	1	.04	2.6	1	.01
24	12	2	.06	16	2	.09	2.3	1	.01
25	12	2	.06	16	2	.09	2.0	1	.01
26	12	2	.06	18	3	.15	2.0	1	.01
27	12	2	.06	21	5	.28	1.4	1	0
28	13	2	.07	21	4	.23	1.1	1	0
29	13	3	.11	18	4	.19	.90	1	0
30	12	3	.10	17	3	.14	.90	1	0
31	---	---	---	15	2	.08	---	---	---
TOTAL	637	---	2.39	596	---	6.42	158.40	---	.50

	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	.90	1		0	0		0	0	0
2	.71	1		0	0		0	0	0
3	.43	1		0	0		0	0	0
4	.25	1		0	0		0	0	0
5	.15	1		0	0		0	0	0
6	.05	0		0	0		0	0	0
7	0	0		0	0		0	0	0
8	0	0		0	0		0	0	0
9	0	0		0	0		0	0	0
10	0	0		0	0		0	0	0
11	0	0		0	0		0	0	0
12	0	0		0	0		0	0	0
13	0	0		0	0		0	0	0
14	0	0		0	0		0	0	0
15	0	0		0	0		0	0	0
16	0	0		0	0		0	0	0
17	0	0		.10	1		0	0	0
18	0	0		.33	1		0	0	0
19	0	0		.33	1		26	15	1.1
20	0	0		.15	1		36	20	1.9
21	0	0		.05	0		22	10	.59
22	0	0		0	0		14	5	.19
23	0	0		0	0		8.2	3	.07
24	0	0		0	0		5.7	2	.03
25	0	0		0	0		4.1	2	.02
26	0	0		0	0		3.7	1	.01
27	0	0		0	0		3.3	1	.01
28	0	0		0	0		7.3	2	.04
29	0	0		0	0		26	10	.70
30	0	0		0	0		25	8	.54
31	0	0		0	0		---	---	---
TOTAL	2.49	---	0	.96	---	0	181.30	---	5.20
YEAR	6708.85		183.06						

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, on right bank 0.2 mi (0.3 km) downstream from Bloody Run Creek, 0.9 mi (1.4 km) upstream from mouth, and 6.9 mi (11.1 km) northeast of Longvale.

DRAINAGE AREA.--161 mi^2 (417 km^2).

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

REVISED RECORDS.--WSP 1929: 1958(M), 1960.

GAGE.--Water-stage recorder. Datum of gage is 1,018.14 ft (310.329 m) above mean sea level.

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

AVERAGE DISCHARGE.--21 years, 422 ft^3/s (11.95 m^3/s), 305,700 acre-ft/yr (377 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,900 ft^3/s (2,210 m^3/s) Dec. 22, 1964, gage height, 30.6 ft (9.33 m) from floodmarks, from rating curve extended above 17,000 ft^3/s (481 m^3/s) on basis of slope-area measurement of maximum flow; no flow at times in 1959, 1967, and 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,050 ft^3/s (29.7 m^3/s) Mar. 9, gage height, 4.69 ft (1.430 m), no peak above base of 7,000 ft^3/s (198 m^3/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.8	4.0	7.9	7.0	65	45	11	5.4	.17		0
2	1.6	1.6	4.0	76	6.6	48	41	15	4.6	.13		0
3	1.8	1.6	4.0	157	6.6	41	35	20	4.3	.12		0
4	1.6	1.8	3.7	99	6.2	36	31	24	4.3	.12		0
5	1.6	1.4	4.0	51	6.2	31	28	22	4.0	.11		0
6	1.6	1.4	4.0	32	6.2	26	26	17	3.7	.12		0
7	1.6	1.6	3.7	23	5.7	24	24	15	3.1	.12		0
8	1.2	1.6	3.7	18	17	27	26	15	2.9	.12		0
9	1.2	1.6	4.3	15	76	392	32	14	2.9	.11		0
10	1.4	1.8	4.3	13	49	178	27	14	2.6	.11		0
11	1.6	5.7	3.7	12	32	99	23	13	2.9	.11		0
12	1.4	10	4.0	41	25	118	20	13	3.1	.11		0
13	1.2	7.4	4.0	40	20	147	19	12	2.9	.04		0
14	1.2	23	3.7	31	17	126	17	12	2.6	.01		0
15	1.2	31	3.7	24	15	218	15	11	2.4	0		0
16	.97	28	3.7	20	13	472	14	8.9	1.4	0		0
17	1.1	19	3.7	17	12	409	13	7.4	2.1	0		0
18	1.4	13	3.7	14	11	253	12	7.9	1.9	0		0
19	1.4	10	3.7	13	10	162	11	8.9	1.6	0		0
20	.97	8.4	3.7	12	12	113	11	8.4	1.7	0		5.4
21	1.2	7.0	3.4	11	253	86	10	7.9	1.4	0		5.6
22	1.2	6.2	3.7	10	246	70	9.5	8.4	1.0	0		4.4
23	1.2	5.4	3.7	9.5	180	70	8.9	7.9	.97	0		3.6
24	1.2	5.0	3.7	8.9	152	233	8.4	6.6	.71	0		3.0
25	1.4	4.6	3.7	8.4	101	298	8.4	6.2	.58	0		2.7
26	1.6	4.6	3.4	8.4	70	180	8.4	8.9	.50	0		2.3
27	1.4	4.0	3.4	8.4	53	120	7.9	14	.40	0		1.9
28	1.6	4.0	3.4	7.9	53	90	7.4	15	.30	0		5.0
29	1.6	4.0	4.0	7.4	---	73	7.4	12	.30	0		13
30	1.8	4.0	7.4	7.4	---	62	8.4	8.9	.21	0		11
31	1.8	---	7.9	7.0	---	53	---	7.0	---	0		---
TOTAL	43.84	220.5	125.0	810.2	1461.5	4320	554.7	372.3	66.77	1.50	0	57.9
MEAN	1.41	7.35	4.03	26.1	52.2	139	18.5	12.0	2.23	.048	0	1.93
MAX	1.8	31	7.9	157	253	472	45	24	5.4	.17	0	13
MIN	.97	1.4	3.4	7.0	5.7	24	7.4	6.2	.21	0	0	0
AC-FT	87	437	248	1610	2900	8570	1100	738	132	3.0	0	115

CAL YR 1976 TOTAL 37399.62 MEAN 102 MAX 4800 MIN .59 AC-FT 74180
WTR YR 1977 TOTAL 8034.21 MEAN 22.0 MAX 472 MIN 0 AC-FT 15940

11472500 EEL RIVER ABOVE DOS RIOS, CA

LOCATION.--Lat 39°41'20", long 123°21'30", in SW¼ sec.7, T.21 N., R.13 W., Mendocino County, temperature recorder at site of former gaging station on left bank, 1.8 mi (2.9 km) upstream from Middle Fork, and 2.1 mi (3.4 km) south of Dos Rios.

DRAINAGE AREA.--705 mi^2 (1,826 km^2).

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.

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, 31.5°C June 29; minimum, 2.5°C Dec. 22, 24, Jan. 7-9.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	17.5	15.5	12.5	7.5	6.0	5.0	4.5	9.0	7.0	9.5	8.0
2	18.5	16.5	15.5	13.0	7.5	5.5	5.0	5.0	9.0	6.5	8.5	7.5
3	18.5	15.5	15.5	13.0	7.0	5.5	5.5	5.0	8.5	7.0	10.0	8.5
4	19.0	15.0	15.5	12.5	7.0	5.5	5.0	4.5	8.5	6.5	9.5	8.0
5	19.0	15.5	14.0	12.0	6.5	5.5	4.5	4.0	8.0	7.0	11.0	8.5
6	20.0	16.0	14.5	12.5	7.0	5.5	4.0	3.0	9.5	7.5	10.5	9.0
7	19.5	16.5	14.5	12.0	7.0	5.5	3.5	2.5	9.5	8.0	10.0	9.5
8	20.0	16.5	13.5	11.5	6.5	5.5	3.5	2.5	9.5	9.0	11.0	9.5
9	19.0	16.5	13.0	11.5	7.0	5.5	3.5	2.5	10.0	9.0	10.5	8.0
10	18.0	15.5	13.5	12.5	6.5	5.0	4.5	3.0	10.0	8.5	9.5	7.0
11	18.5	15.5	13.0	12.5	6.5	4.5	5.5	4.5	10.5	9.0	9.5	7.5
12	18.5	15.0	13.5	12.5	5.5	4.5	7.0	5.5	11.5	9.5	9.5	8.5
13	18.0	15.0	13.0	12.0	5.5	4.0	6.5	6.0	11.5	9.5	9.0	7.5
14	18.5	15.0	12.5	12.0	5.0	3.5	6.5	5.5	12.0	9.5	9.0	7.0
15	18.0	14.5	14.0	12.5	4.0	3.5	7.0	6.0	12.5	10.0	8.5	6.5
16	17.5	14.5	14.5	13.5	---	---	7.0	6.0	12.5	10.0	7.0	6.0
17	17.0	14.0	15.0	13.5	---	---	7.0	5.5	11.5	9.5	8.5	6.5
18	17.0	14.0	14.0	13.5	---	---	6.5	5.0	12.0	9.5	9.0	7.5
19	17.0	14.0	13.5	12.0	---	---	6.5	5.0	12.0	9.5	10.5	8.5
20	16.5	13.5	13.0	11.5	---	---	7.0	5.5	10.5	9.5	11.5	8.5
21	16.5	13.0	13.0	11.5	3.0	3.0	7.5	6.5	10.0	9.0	13.0	9.5
22	16.0	13.5	12.5	11.0	3.0	2.5	8.0	6.5	9.5	8.0	13.0	10.5
23	16.5	13.5	12.0	10.5	4.0	3.0	8.5	7.0	9.0	8.0	12.0	11.0
24	14.5	13.5	12.0	10.5	4.0	2.5	8.0	7.0	8.5	7.5	11.0	8.5
25	15.5	13.0	11.0	9.5	4.5	3.5	9.5	7.5	8.5	7.0	8.5	7.5
26	15.0	12.5	10.5	8.5	4.5	3.0	8.5	6.5	9.0	7.5	11.5	8.5
27	14.5	12.0	8.5	7.0	4.5	3.0	8.0	6.0	9.5	7.5	12.5	10.0
28	14.5	11.5	8.0	6.5	4.0	3.0	8.5	6.0	9.5	9.0	11.0	9.0
29	13.5	12.0	8.0	6.0	5.0	4.0	8.5	6.5	---	---	10.5	8.5
30	14.5	12.0	7.5	6.0	5.5	5.0	8.0	6.5	---	---	10.5	8.5
31	15.0	12.5	---	---	5.5	4.5	9.0	7.0	---	---	11.5	8.5
MONTH	20.0	11.5	15.5	6.0	7.5	2.5	9.5	2.5	12.5	6.5	13.0	6.0

11472500 EEL RIVER ABOVE DOS RIOS, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	10.0	16.0	14.5	23.5	19.5	26.0	23.5	27.5	23.0	23.0	20.0
2	13.0	10.0	16.5	14.0	21.5	17.5	27.5	22.5	27.0	23.0	24.5	20.5
3	14.0	10.5	17.5	15.0	20.5	18.0	25.5	21.0	27.5	23.0	24.5	20.5
4	16.0	12.5	16.5	14.0	22.5	17.0	25.0	20.5	26.5	22.5	24.5	21.5
5	17.0	14.0	15.5	13.5	25.0	19.0	24.5	20.0	25.5	22.0	26.5	22.0
6	18.0	14.5	14.5	12.0	25.5	20.5	25.5	20.0	23.5	21.0	25.5	21.5
7	18.0	15.5	14.0	12.0	25.5	21.5	26.5	20.5	23.5	20.0	25.0	21.5
8	16.5	15.0	15.5	12.0	24.0	20.5	25.0	21.0	24.0	20.0	24.5	20.5
9	15.5	13.5	14.5	13.5	23.5	21.0	24.5	20.5	---	---	23.5	20.5
10	15.0	12.0	14.0	13.0	22.0	19.0	25.5	20.0	---	---	24.0	21.0
11	16.0	13.0	14.5	13.0	21.5	18.0	27.0	21.0	---	---	23.5	20.5
12	16.5	12.5	16.0	13.0	22.5	18.0	26.0	23.0	---	---	23.0	20.0
13	17.5	14.0	17.5	13.5	23.0	19.5	24.5	21.0	---	---	21.0	20.0
14	16.0	12.5	18.0	14.5	23.5	19.5	27.0	21.5	---	---	21.0	19.0
15	14.5	13.5	16.5	14.0	24.0	19.5	27.5	22.5	---	---	19.5	18.5
16	17.5	14.5	15.5	13.0	24.0	20.5	27.5	22.5	---	---	18.5	17.5
17	15.5	12.5	17.0	12.5	24.0	20.5	29.0	22.5	---	---	17.5	17.0
18	15.0	12.0	15.0	13.5	24.5	20.5	27.5	23.5	---	---	18.5	17.5
19	16.5	12.0	18.5	13.5	24.0	20.5	25.5	22.5	---	---	18.5	17.0
20	17.5	13.0	20.5	16.0	23.5	20.0	26.0	22.0	---	---	20.5	17.5
21	17.5	13.5	20.5	17.0	24.5	20.0	25.5	22.0	---	---	20.0	17.5
22	16.0	13.5	18.5	15.0	25.0	20.5	25.0	22.0	---	---	19.5	16.5
23	17.0	13.5	16.5	15.0	24.5	20.5	26.0	22.0	---	---	19.0	16.5
24	16.5	14.0	19.0	14.5	24.5	20.5	24.0	22.0	---	---	20.5	17.5
25	16.5	14.5	18.5	16.0	25.5	21.0	25.5	21.5	---	---	20.5	17.0
26	18.0	13.0	18.5	16.5	26.5	21.5	26.0	21.0	---	---	20.5	17.5
27	18.0	14.0	18.5	15.5	27.0	21.0	25.0	21.0	---	---	19.0	18.0
28	15.5	14.5	19.5	16.0	27.0	23.0	24.5	21.0	24.5	19.0	18.0	17.5
29	16.0	14.0	20.5	16.0	31.5	23.5	24.5	21.0	23.5	20.5	19.0	17.0
30	16.0	14.5	22.0	17.0	26.0	23.5	28.0	21.5	24.0	20.5	18.0	15.5
31	---	---	23.5	18.0	---	---	27.0	22.5	23.0	21.0	---	---
MONTH	18.0	10.0	23.5	12.0	31.5	17.0	29.0	20.0	---	---	26.5	15.5

11473000 MIDDLE FORK EEL RIVER BELOW BLACK BUTTE RIVER, NEAR COVELO, CA

LOCATION.--Lat 39°49'35", long 123°05'30", in NW¼ sec.28, T.23 N., R.11 W., Mendocino County, temperature recorder at site of former gaging station, 0.2 mi (0.3 km) downstream from Black Butte River, and 8.6 mi (13.8 km) east of Covelo.

DRAINAGE AREA.--367 mi^2 (951 km^2).

PERIOD OF RECORD.--Water years 1961 to current year.
CHEMICAL ANALYSES: Water years 1965-66.
WATER TEMPERATURES: Water years 1961 to current year.
SEDIMENT RECORDS: Water years 1963-67.
TURBIDITY: Water years 1965-67.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July to November 1961, October 1962 to current year.
SEDIMENT RECORDS: October 1962 to September 1967.

INSTRUMENTATION.--Temperature recorder since October 1967.

REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 29.5°C July 15, 1972; minimum recorded, 0.5°C Dec. 14, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 29.0°C June 26, 27, July 16, Aug. 4.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT			NOV			DEC			JAN			FEB			MAR		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	--	16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	12.5	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.0	--
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	4.0	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	2.5	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	11.5	--	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	7.0	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

11473000 MIDDLE FORK EEL RIVER BELOW BLACK BUTTE RIVER, NEAR COVELO, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	--	--	--	--	--	--	21.5	--	14.0	26.0	--	21.0	27.0	--	22.0	25.5	--	20.0
2	--	--	--	--	--	--	21.5	--	12.5	27.0	--	21.5	27.0	--	22.5	26.0	--	19.5
3	--	--	--	--	--	--	20.5	--	12.5	25.5	--	19.5	28.5	--	22.5	26.0	--	20.0
4	--	--	--	--	--	--	23.0	--	12.5	25.5	--	19.5	29.0	--	22.5	26.5	--	20.0
5	--	--	--	--	--	--	24.5	--	14.5	25.5	--	18.5	28.0	--	22.5	26.5	--	20.0
6	--	--	--	--	--	--	24.5	--	16.5	26.5	--	18.5	25.5	--	22.5	26.0	--	20.0
7	--	--	--	--	--	--	26.5	--	17.5	26.5	--	18.5	28.0	--	22.0	26.0	--	20.0
8	--	--	--	--	--	--	25.5	--	17.5	26.5	--	19.0	27.0	--	22.0	26.0	--	20.0
9	--	--	--	--	--	--	24.5	--	17.5	26.5	--	19.5	27.0	--	22.0	26.0	--	20.0
10	--	--	--	--	--	--	22.5	--	16.5	28.0	--	19.0	27.0	--	22.5	26.0	--	20.0
11	--	--	--	--	--	--	24.5	--	16.5	27.5	--	20.0	27.0	--	23.0	25.5	--	20.0
12	--	--	--	--	--	--	24.5	--	16.5	28.0	--	20.0	27.0	--	23.0	25.0	--	19.0
13	--	--	--	--	--	--	24.0	--	16.0	28.5	--	20.0	27.0	--	23.0	23.0	--	19.0
14	--	9.0	--	--	--	--	24.5	--	16.0	28.0	--	20.5	27.0	--	22.5	24.0	--	19.0
15	--	--	--	--	--	--	25.5	--	16.0	28.5	--	20.5	--	--	--	21.0	--	18.0
16	--	--	--	--	--	--	26.0	--	17.0	29.0	--	20.5	--	--	--	20.0	--	18.0
17	--	--	--	--	--	--	25.0	--	17.0	27.5	--	20.5	--	--	--	20.0	--	18.0
18	--	--	--	--	10.5	--	25.0	--	17.0	27.5	--	20.5	--	--	--	22.0	--	18.0
19	--	--	--	18.0	--	8.0	24.5	--	17.0	27.5	--	21.0	--	--	--	22.0	--	16.0
20	--	--	--	20.0	--	11.0	24.0	--	17.0	27.5	--	20.5	--	--	--	20.5	--	16.0
21	--	--	--	19.5	--	11.0	27.0	--	17.5	27.0	--	20.5	--	--	--	22.5	--	15.5
22	--	--	--	15.0	--	10.5	27.0	--	19.0	27.0	--	20.5	--	--	--	20.0	--	16.0
23	--	--	--	16.0	--	10.0	27.0	--	19.0	26.5	--	20.5	--	--	--	20.0	--	16.0
24	--	--	--	18.5	--	9.0	28.5	--	19.0	25.5	--	20.5	--	25.0	--	23.5	--	16.0
25	--	--	--	18.0	--	10.5	28.0	--	20.0	26.5	--	20.5	22.0	--	20.0	23.5	--	16.0
26	--	--	--	18.0	--	11.0	29.0	--	20.5	26.5	--	20.5	26.0	--	20.0	24.0	--	16.0
27	--	--	--	17.5	--	8.5	29.0	--	20.5	26.5	--	19.5	25.0	--	20.0	18.5	--	17.0
28	--	--	--	18.5	--	9.5	28.0	--	21.0	26.5	--	20.5	26.0	--	20.0	21.0	--	16.0
29	--	--	--	19.5	--	8.5	27.0	--	21.0	27.0	--	20.5	26.0	--	20.0	19.5	--	15.0
30	--	--	--	20.5	--	10.5	24.0	--	21.0	28.0	--	21.0	26.0	--	20.0	19.0	--	15.0
31	--	--	--	22.0	--	12.0	--	--	--	27.5	--	22.0	26.0	--	20.0	--	--	--
MONTH	--	--	--	--	--	--	29.0	--	12.5	29.0	--	18.5	--	--	--	26.5	--	15.0

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, on right bank 0.6 mi (1.0 km) upstream from Eastman Creek, 1.7 mi (2.7 km) southeast of Dos Rios, and 1.9 mi (3.1 km) upstream from mouth.

DRAINAGE AREA.--745 mi^2 (1,930 km^2).

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) above mean sea level.

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

AVERAGE DISCHARGE.--12 years, 1,679 ft^3/s (47.55 m^3/s), 1,216,000 acre-ft/yr (1.50 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,500 ft^3/s (2,560 m^3/s) Jan. 23, 1970, gage height, 27.15 ft (8.275 m); minimum daily, 3.3 ft^3/s (0.093 m^3/s) Aug. 21-23, Sept. 12-14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,470 ft^3/s (41.6 m^3/s) Feb. 21, gage height, 9.37 ft (2.856 m), no peak above base of 35,000 ft^3/s (991 m^3/s); minimum daily, 3.3 ft^3/s (0.093 m^3/s) Aug. 21-23, Sept. 12-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	18	33	40	51	300	330	204	171	25	6.1	5.9
2	25	18	33	82	53	248	323	260	161	24	6.1	5.6
3	27	18	33	334	51	205	323	247	148	23	5.7	4.9
4	28	18	33	221	49	192	354	299	138	22	5.4	4.3
5	28	18	32	124	47	168	522	269	129	21	5.1	4.2
6	26	18	32	86	47	159	630	239	119	20	4.9	3.9
7	24	17	31	69	46	177	649	227	109	20	4.8	3.7
8	23	17	31	59	57	187	659	208	102	19	4.4	3.6
9	21	17	32	54	89	449	594	201	120	18	4.4	3.6
10	20	18	32	53	119	629	460	265	114	17	4.4	3.6
11	19	22	32	54	104	387	393	318	107	16	4.3	3.5
12	18	26	31	106	94	357	371	379	94	15	4.2	3.3
13	18	33	31	151	91	363	375	368	86	14	4.1	3.3
14	18	58	31	117	92	312	380	339	82	13	3.9	3.3
15	17	258	31	96	89	288	348	298	75	12	3.9	3.4
16	16	221	30	84	91	348	341	267	68	11	3.9	3.6
17	16	127	30	77	94	384	343	243	61	10	3.6	4.9
18	16	86	29	74	87	384	304	222	58	9.7	3.6	7.2
19	16	69	29	74	79	361	269	222	62	9.3	3.7	32
20	16	59	29	79	77	380	240	210	72	9.0	3.5	155
21	16	52	28	100	454	404	220	187	62	8.7	3.3	99
22	16	48	28	105	858	479	205	180	54	8.6	3.3	57
23	16	45	28	106	476	566	184	179	48	8.3	3.3	43
24	16	42	28	101	419	590	173	171	43	8.0	3.4	35
25	17	41	28	89	330	547	171	158	39	7.6	4.3	30
26	18	39	28	79	275	544	191	168	36	7.5	5.1	27
27	18	37	27	71	251	635	175	309	33	7.2	4.9	26
28	19	35	27	66	253	591	155	250	30	6.9	5.1	32
29	18	34	28	61	---	488	149	214	28	6.8	5.5	192
30	18	33	35	57	---	418	150	195	26	6.4	6.7	217
31	18	---	37	54	---	369	---	181	---	6.2	6.2	---
TOTAL	604	1542	947	2923	4823	11909	9981	7477	2475	410.2	141.1	1020.8
MEAN	19.5	51.4	30.5	94.3	172	384	333	241	82.5	13.2	4.55	34.0
MAX	28	258	37	334	858	635	659	379	171	25	6.7	217
MIN	16	17	27	40	46	159	149	158	26	6.2	3.3	3.3
AC-FT	1200	3060	1880	5800	9570	23620	19800	14830	4910	814	280	2020

CAL YR 1976	TOTAL	199219.0	MEAN 544	MAX 15600	MIN 14	AC-FT	395200
WTR YR 1977	TOTAL	44253.1	MEAN 121	MAX 858	MIN 3.3	AC-FT	87780

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.
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.

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, 28.5°C June 28, 29, minimum, 0.5°C Jan. 9.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	19.5	12.5	10.5	5.5	5.0	3.5	2.5	6.0	4.5	9.5	7.0
2	20.5	19.0	12.0	11.0	5.5	4.5	4.0	3.5	5.5	4.0	8.5	6.5
3	21.5	17.5	13.0	11.5	5.0	4.5	4.5	3.5	5.5	4.0	10.5	7.5
4	21.5	17.5	13.0	10.5	5.5	4.5	4.0	3.0	6.0	4.5	10.5	6.5
5	22.0	18.0	12.0	10.5	5.5	4.5	4.0	3.0	7.0	5.0	10.5	6.5
6	22.5	18.0	11.5	10.0	5.0	4.5	3.5	2.0	8.0	6.5	10.5	7.0
7	22.0	19.0	11.0	10.5	5.0	4.5	2.5	1.0	7.5	6.0	9.5	8.5
8	21.5	18.0	12.0	11.5	5.0	4.5	2.0	1.0	8.5	7.5	11.5	8.5
9	21.0	18.0	13.0	11.0	5.0	4.5	2.0	0.5	9.5	7.5	10.5	8.5
10	20.0	16.5	13.5	12.5	4.5	4.0	3.5	1.5	9.0	7.0	9.5	6.0
11	20.5	16.0	12.5	12.5	4.5	4.0	4.5	3.0	9.0	7.0	9.5	6.5
12	20.0	16.0	13.0	12.0	4.0	3.0	5.5	4.5	10.0	7.5	9.5	8.0
13	19.5	15.5	12.0	11.5	4.0	3.0	5.0	4.5	9.5	7.5	9.5	6.5
14	19.0	15.5	12.5	11.5	3.5	2.5	4.5	3.0	9.5	7.5	9.0	6.0
15	17.0	14.5	14.0	12.0	3.5	2.5	4.5	3.5	10.0	7.5	8.0	6.5
16	17.0	13.5	14.0	12.0	3.5	2.5	4.5	3.0	10.0	8.0	8.0	6.0
17	15.0	13.5	13.5	12.0	3.0	2.0	4.0	2.5	10.0	7.5	10.0	6.0
18	15.0	13.5	13.0	12.0	2.5	2.0	3.5	2.5	11.0	8.0	10.5	7.0
19	14.5	12.5	12.5	11.0	2.0	1.5	4.5	3.0	10.5	8.0	12.0	8.0
20	14.5	11.5	11.5	10.0	2.5	1.5	5.5	4.0	10.5	9.0	13.0	8.5
21	14.0	11.0	11.5	10.5	2.5	1.0	6.5	5.0	10.0	8.5	13.5	8.5
22	14.0	11.5	11.0	9.5	3.0	2.0	6.5	5.5	9.0	7.0	13.0	9.5
23	13.0	11.5	10.0	9.0	3.0	2.5	6.5	5.0	8.5	8.0	11.0	9.5
24	13.5	12.0	9.5	8.5	2.5	1.0	6.0	4.5	8.5	7.0	9.5	8.0
25	14.5	12.0	9.5	8.0	4.0	2.0	6.0	4.0	9.0	6.5	11.0	7.0
26	13.5	12.0	9.0	7.5	3.5	1.5	5.5	4.0	9.0	6.5	12.0	7.5
27	14.5	12.5	7.5	6.0	2.5	1.5	5.0	4.0	10.5	6.5	11.5	8.5
28	14.5	12.5	6.5	5.5	2.5	1.5	5.0	4.0	10.0	8.5	10.5	7.0
29	14.0	12.0	6.0	5.0	4.5	2.5	5.0	3.5	---	---	10.5	7.0
30	13.5	11.0	6.0	5.0	5.0	4.0	5.5	3.5	---	---	10.5	7.0
31	13.0	11.0	---	---	4.0	2.5	7.0	5.0	---	---	12.0	7.0
MONTH	22.5	11.0	14.0	5.0	5.5	1.0	7.0	0.5	11.0	4.0	13.5	6.0

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	9.0	16.0	14.0	22.5	18.0	26.0	24.0	25.5	23.0	23.0	20.0
2	14.0	9.0	17.0	13.5	22.5	16.5	25.5	23.0	26.5	23.5	23.0	20.5
3	15.0	10.0	15.5	14.0	21.0	17.0	23.0	20.5	26.5	23.5	23.0	20.5
4	16.5	11.0	16.5	12.5	24.0	16.5	22.5	19.0	25.5	23.0	23.5	21.0
5	16.0	11.5	14.5	12.5	26.0	19.0	22.0	19.0	25.0	22.5	24.0	21.0
6	16.0	11.5	14.0	11.0	26.5	20.5	23.5	19.0	24.0	22.0	23.5	21.0
7	16.0	12.0	13.0	10.5	26.0	20.5	24.0	20.5	24.0	21.5	23.5	21.0
8	15.0	12.5	16.0	10.5	24.5	20.0	23.5	20.5	24.5	21.5	23.0	20.5
9	14.5	10.5	14.5	13.0	24.0	19.5	23.5	20.0	25.0	22.0	23.0	20.5
10	15.0	10.0	14.0	12.0	20.5	19.0	24.5	19.5	25.0	22.5	22.5	20.5
11	16.0	11.0	13.5	11.5	23.0	18.5	25.5	21.0	25.5	23.0	22.5	20.0
12	17.5	12.0	15.5	11.5	24.5	19.0	25.0	21.5	25.0	22.5	22.0	20.0
13	17.0	13.0	17.0	12.0	24.0	19.5	25.0	21.0	25.0	22.0	21.5	19.5
14	16.5	12.0	17.5	13.0	25.0	19.5	25.5	21.5	24.5	22.0	21.0	19.5
15	17.5	12.0	17.5	12.5	26.0	20.0	26.5	22.5	24.5	22.0	20.0	19.0
16	17.0	13.0	16.0	12.0	25.5	21.0	26.5	23.0	23.5	22.0	19.0	18.5
17	16.5	12.0	16.0	11.5	25.0	20.5	26.0	23.0	23.5	22.0	19.0	18.5
18	16.5	11.5	13.5	11.5	25.0	20.5	25.5	22.5	24.0	22.0	20.0	18.5
19	17.5	11.5	18.5	11.5	24.5	20.0	25.5	22.5	24.5	22.0	20.0	18.5
20	17.5	12.0	19.5	13.5	24.5	20.0	25.0	22.0	24.0	22.0	22.0	18.0
21	17.5	11.5	19.5	14.0	26.0	21.0	25.5	22.5	24.5	21.5	21.0	17.0
22	17.0	12.5	16.5	14.0	26.5	22.0	25.5	22.5	24.0	21.5	20.0	17.0
23	17.5	12.5	16.0	12.5	26.0	22.0	26.0	22.5	24.0	21.5	19.5	17.5
24	16.0	12.5	18.5	13.0	26.5	22.5	24.5	22.5	23.5	22.0	21.0	18.0
25	16.5	13.5	17.5	14.0	28.0	23.0	25.0	22.0	22.0	20.5	21.0	18.0
26	18.0	12.0	18.0	14.5	27.5	23.0	25.0	22.0	21.5	19.5	21.0	18.0
27	19.0	13.0	19.0	14.0	27.5	23.0	24.5	21.5	22.0	19.5	19.5	18.0
28	16.5	13.5	19.5	13.5	28.5	24.5	24.5	21.5	23.5	20.0	19.0	18.0
29	16.5	13.0	20.5	14.0	28.5	25.0	25.0	21.5	23.0	21.0	20.0	17.5
30	17.5	14.5	22.0	15.5	27.0	25.0	26.0	22.0	23.0	20.0	18.0	15.5
31	---	---	23.0	16.5	---	---	26.0	23.0	22.5	20.5	---	---
MONTH	19.0	9.0	23.0	10.5	28.5	16.5	26.5	19.0	26.5	19.5	24.0	15.5

11475000 EEL RIVER AT FORT SEWARD, CA

LOCATION.--Lat 40°13'05", long 123°37'54", in SE¼NE¼ sec.8, T.3 S., R.5 E., Humboldt County, 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 Dobbyn Creek, and 11.8 mi (19.0 km) northeast of Garberville.

DRAINAGE AREA.--2,107 mi² (5,457 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1955 to current year. Prior to October 1965, published as "at Alderpoint."

GAGE.--Water-stage recorder. Datum of gage is 217.26 ft (66.221 m) above mean sea level. Prior to Dec. 22, 1964, at site 7.5 mi (12.1 km) upstream at datum 46.55 ft (14.188 m) higher. Feb. 2 to Sept. 30, 1965, at site 7.7 mi (12.4 km) upstream at datum 49.42 ft (15.063 m) higher.

REMARKS.--Records good. Flow slightly regulated by Lake Pillsbury (station 11470000) 99 mi (159 km) upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--22 years, 4,647 ft³/s (131.6 m³/s), 3,367,000 acre-ft/yr (4.15 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, 2,860 ft³/s (81.0 m³/s) Feb. 22, gage height, 11.25 ft (3.429 m), no peak above base of 41,000 ft³/s (1,160 m³/s); minimum daily, 1.2 ft³/s (0.034 m³/s) Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	36	52	66	103	638	715	240	258	48	6.2	1.7
2	47	36	52	209	91	673	623	281	236	45	6.2	1.5
3	47	38	50	835	88	599	570	372	226	42	5.9	1.5
4	45	38	50	1100	88	506	544	389	212	39	5.5	1.5
5	46	38	50	668	88	443	557	421	199	35	5.2	1.4
6	46	40	50	396	84	386	731	407	188	31	4.9	1.4
7	47	40	47	265	84	358	824	362	172	26	4.6	1.4
8	47	40	45	212	103	389	858	348	161	24	4.3	1.5
9	45	40	45	165	176	1090	899	332	151	22	4.0	1.4
10	43	38	45	151	325	2290	785	321	147	21	4.0	1.4
11	41	43	45	147	338	1330	623	365	158	18	3.7	1.4
12	50	50	47	202	269	1010	531	470	154	17	3.5	1.4
13	50	52	47	418	222	1100	493	561	147	14	3.2	1.2
14	43	73	47	403	196	1020	485	522	141	13	3.0	1.4
15	40	161	47	321	176	1100	481	462	131	13	2.8	1.7
16	38	362	47	254	161	1960	443	411	128	13	2.8	2.5
17	36	375	47	219	151	2370	429	372	116	13	2.5	5.2
18	35	262	45	196	147	2060	421	351	103	13	2.3	9.7
19	35	196	43	176	144	1560	379	341	95	12	2.1	20
20	34	151	41	161	151	1250	341	332	88	12	2.1	21
21	34	125	41	154	414	1080	308	321	84	12	1.9	99
22	35	103	41	158	2290	959	284	296	91	11	1.9	192
23	35	91	41	169	1740	1010	265	281	88	11	1.7	128
24	35	80	41	172	1470	1760	250	277	80	10	1.5	80
25	35	73	41	169	1120	2360	243	273	74	9.7	1.5	54
26	35	69	41	158	790	2210	240	269	70	9.2	1.7	41
27	35	60	41	144	594	1770	250	281	64	8.7	1.7	35
28	36	60	41	134	540	1580	254	393	59	8.2	3.0	45
29	36	57	41	128	---	1240	236	375	54	7.4	3.5	219
30	36	57	47	116	---	1010	229	321	51	7.0	2.5	345
31	36	---	52	111	---	841	---	284	---	6.6	1.7	---
TOTAL	1244	2884	1410	8177	12143	37952	14291	11031	3926	571.8	101.4	1318.2
MEAN	40.1	96.1	45.5	264	434	1224	476	356	131	18.4	3.27	43.9
MAX	50	375	52	1100	2290	2370	899	561	258	48	6.2	345
MIN	34	36	41	66	84	358	229	240	51	6.6	1.5	1.2
AC-FT	2470	5720	2800	16220	24090	75280	28350	21880	7790	1130	201	2610

CAL YR 1976 TOTAL 500863.0 MEAN 1368 MAX 42800 MIN 25 AC-FT 993500
WTR YR 1977 TOTAL 95049.4 MEAN 260 MAX 2370 MIN 1.2 AC-FT 188500

11475000 EEL RIVER AT FORT SEWARD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961 to current year.
CHEMICAL ANALYSES: Water years 1972-75, 1977.
WATER TEMPERATURES: Water years 1961 to current year.
SEDIMENT RECORDS: Water years 1966-76.
TURBIDITY: Water years 1966-68, 1971-73.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1960 to current year.
SEDIMENT RECORDS: October 1965 to September 1976.

INSTRUMENTATION.--Temperature recorder since November 1960.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 34.5°C June 25, 1968; minimum recorded, 0.0°C Dec. 14-17, 1967.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 29.5°C Aug. 2; minimum, 5.0°C Jan. 7-10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)
AUG 02...	1640	6.0	261	8.6	28.0	9.5	.01	.43	.44	.01	0

DATE	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)
AUG 02...	0	1	7	<10	<10	0	<1	5	10	0	<50

DATE	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
AUG 02...	<50	0	5	<10	<9	1	16	<100	<100	0	10

DATE	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	POLYCHLORINATED NAPHTHALENES (UG/L)	TOTAL PCB (UG/L)	TOTAL ALDRIN (UG/L)
AUG 02...	.0	.0	10	6	4	22	1.4	.00	.0	.00

DATE	TOTAL CHLORDANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DIAZINON (UG/L)	TOTAL DIELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTACHLOR (UG/L)	TOTAL HEPTACHLOR EPOXIDE (UG/L)
AUG 02...	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL METHYL TRITHION (UG/L)	TOTAL MIREX (UG/L)	TOTAL PARATHION (UG/L)	TOTAL TOXAPHENE (UG/L)	TOTAL TRITHION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
AUG 02...	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

11475000 EEL RIVER AT FORT SEWARD, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	17.5	15.5	12.5	10.0	8.5	7.5	7.0	11.5	9.5	13.0	10.0
2	19.5	17.5	16.5	13.5	10.0	8.5	7.0	7.0	11.0	8.5	12.0	10.0
3	20.0	16.0	16.0	13.0	10.0	8.5	7.0	6.0	10.5	8.5	12.0	10.5
4	20.0	15.0	15.0	12.0	10.0	8.0	7.0	6.0	9.5	8.5	13.0	10.5
5	20.0	15.0	14.0	11.5	10.0	8.0	7.0	6.5	10.5	8.5	13.0	11.0
6	21.0	16.0	14.0	11.5	10.0	8.0	7.5	6.0	12.0	9.5	13.0	12.0
7	22.0	17.5	14.0	11.0	10.0	8.0	6.5	5.0	11.5	9.5	13.0	12.0
8	20.5	17.0	12.0	10.5	9.0	8.0	7.0	5.0	11.5	10.5	13.0	12.0
9	21.0	17.0	12.0	10.0	9.5	8.0	7.0	5.0	12.0	10.5	12.5	11.0
10	20.0	16.5	13.0	11.5	9.5	8.0	6.0	5.0	12.5	11.5	12.0	10.0
11	21.0	17.5	11.5	10.0	9.0	7.0	7.0	6.0	12.5	11.5	12.0	11.0
12	20.5	15.5	---	---	9.0	7.0	8.0	7.0	13.0	12.0	11.0	10.0
13	19.5	15.5	---	---	8.5	7.0	8.0	7.5	13.5	12.5	11.5	10.5
14	18.5	15.5	---	---	8.0	7.0	8.0	7.5	15.5	12.5	11.0	9.5
15	18.5	15.0	---	---	8.0	7.0	8.0	7.0	15.5	13.0	10.5	9.0
16	18.5	15.0	---	---	8.0	6.5	8.0	7.0	15.0	12.5	10.5	8.5
17	18.0	15.0	---	---	8.0	6.5	8.0	7.0	14.5	12.5	11.5	8.5
18	17.5	14.0	---	---	7.5	6.5	8.0	7.0	15.0	12.5	11.0	9.0
19	16.5	14.0	---	---	7.0	6.0	8.0	7.0	15.0	13.0	13.0	10.0
20	17.0	13.5	15.5	14.5	7.0	6.0	8.0	7.0	14.5	12.5	14.0	10.5
21	17.0	13.5	16.0	14.0	7.0	6.0	8.0	7.0	12.5	11.5	15.0	11.0
22	16.0	14.0	15.5	14.0	7.0	6.0	9.5	8.0	11.5	10.5	16.0	13.0
23	17.0	14.0	15.0	13.0	7.5	6.5	10.5	8.5	11.0	10.5	14.0	10.5
24	15.0	13.0	15.5	12.5	7.0	6.5	10.5	8.5	11.0	10.0	10.5	8.5
25	15.5	13.0	14.0	12.5	8.0	6.5	11.0	7.5	11.5	10.0	10.5	9.0
26	15.5	12.5	13.5	11.0	7.5	6.0	9.5	7.5	12.0	11.0	12.5	9.5
27	15.0	12.0	12.0	10.0	8.0	6.0	10.0	7.5	13.0	10.5	12.5	9.5
28	14.0	12.0	11.0	9.5	7.5	7.0	10.5	8.0	13.0	11.0	11.5	9.5
29	14.0	12.0	10.5	9.0	8.0	7.0	9.5	7.5	---	---	11.5	8.5
30	15.0	13.0	10.0	8.5	9.0	7.0	9.5	8.0	---	---	10.5	9.0
31	15.0	12.0	---	---	8.0	7.0	11.5	9.0	---	---	11.5	9.0
MONTH	22.0	12.0	---	---	10.0	6.0	11.5	5.0	15.5	8.5	16.0	8.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	10.0	17.0	15.0	22.0	19.0	25.5	20.5	27.0	24.5	25.5	22.5
2	13.0	10.0	16.0	14.5	21.0	17.5	25.5	20.0	29.5	25.5	25.5	22.5
3	15.0	11.5	17.0	15.0	21.0	18.0	24.5	20.5	29.0	24.5	26.5	22.5
4	16.0	13.0	16.5	15.5	23.0	18.0	24.5	20.0	28.5	24.0	27.5	24.5
5	17.5	13.5	16.0	14.5	24.5	20.5	24.5	19.5	27.5	23.5	27.0	24.5
6	18.0	14.5	16.5	15.5	25.5	16.5	24.5	19.5	26.5	23.0	27.5	24.5
7	17.5	14.5	16.0	13.5	25.0	22.0	25.5	20.0	26.5	23.5	27.0	23.5
8	16.0	12.5	16.0	13.0	23.5	21.0	25.5	20.5	27.0	23.5	26.0	22.5
9	15.5	12.5	15.0	13.0	22.0	20.0	24.5	21.0	27.5	24.0	25.5	22.0
10	15.0	12.5	13.0	10.5	20.0	18.5	25.5	21.0	28.5	24.5	25.5	21.5
11	15.0	12.0	13.5	11.5	21.5	17.5	25.5	21.0	28.5	25.5	25.5	22.0
12	16.0	12.5	14.0	13.0	23.0	19.0	25.5	21.0	28.5	24.5	25.0	22.5
13	18.0	14.0	16.0	13.0	23.0	19.5	25.5	21.0	27.5	23.5	24.5	21.5
14	17.5	15.0	14.5	13.0	24.0	20.0	26.0	21.5	26.5	23.5	23.5	21.5
15	16.0	15.5	16.0	12.5	25.0	21.0	27.0	21.5	27.5	23.5	21.5	19.5
16	17.5	15.5	17.0	14.0	25.0	21.0	27.0	22.5	26.5	24.0	19.5	19.0
17	18.0	15.5	16.5	14.0	25.0	21.0	26.5	22.5	26.0	23.5	20.0	19.0
18	17.0	14.5	16.0	14.5	24.5	20.5	27.0	22.5	26.5	23.5	20.5	19.0
19	16.5	14.5	18.0	14.0	24.0	20.0	27.5	22.5	27.5	23.5	23.5	19.5
20	17.0	14.5	19.5	16.5	24.5	19.0	28.5	23.5	26.0	23.5	23.5	19.5
21	16.5	15.0	19.0	18.0	25.5	20.0	27.5	23.5	26.5	23.5	22.5	20.0
22	17.0	14.5	18.5	16.0	26.0	21.0	28.0	23.5	26.5	23.0	22.5	19.5
23	17.0	15.5	17.0	15.0	26.0	21.0	28.5	23.5	27.5	23.5	20.5	19.5
24	17.0	15.5	19.0	15.5	26.0	21.0	26.0	22.5	26.0	23.5	22.5	18.5
25	17.5	15.5	18.0	17.5	26.0	20.5	26.5	22.5	23.5	22.5	23.0	19.5
26	17.5	15.5	18.5	16.0	27.0	20.0	27.5	23.5	25.5	22.5	23.5	20.5
27	18.5	16.0	19.0	15.0	26.5	20.5	27.0	23.5	25.5	22.5	21.5	20.5
28	18.0	15.0	19.0	16.0	28.0	21.0	27.0	24.0	26.5	22.5	21.0	19.5
29	18.5	15.5	19.0	16.5	28.0	22.5	27.5	23.0	26.5	22.5	21.0	19.0
30	18.5	16.0	21.0	17.5	24.5	22.0	28.5	23.5	26.0	22.5	21.0	18.5
31	---	---	22.0	18.0	---	---	28.5	24.5	25.5	22.5	---	---
MONTH	18.5	10.0	22.0	10.5	28.0	16.5	28.5	19.5	29.5	22.5	27.5	18.5

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, 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.--The letter "A" following a date indicates chemical-quality data furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT								
05...A	1215	46	--	310	8.0	19.0	0	9.8
NOV								
09...A	1105	40	--	317	7.8	14.0	0	10.6
DEC								
07...A	1200	47	--	318	7.8	10.0	0	11.4
JAN								
05...A	1400	668	--	253	8.1	7.0	20	12.9
FEB								
02...A	1535	91	--	319	8.3	11.0	0	12.5
MAR								
08...A	1500	389	--	250	8.0	12.0	1	11.6
APR								
05...A	1245	557	--	222	8.1	17.0	1	10.7
MAY								
03...A	1120	372	--	238	8.0	16.5	1	10.5
JUN								
14...A	1245	141	--	258	8.2	21.5	1	10.0
JUL								
12...A	1200	17	--	288	8.0	20.0	1	9.6
AUG								
03...	0900	--	11	288	8.3	21.5	--	9.5
09...A	1145	4.0	--	295	8.0	24.0	1	10.2
SEP								
20...A	1115	21	--	284	7.8	19.0	1	8.7

DATE	TIME	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
DEC												
07...A	1200	150	35	--	--	9.1	--	.3	--	140	0	120
JAN												
05...A	1400	120	34	34	9.2	9.6	14	.4	1.2	110	0	90
FEB												
02...A	1535	140	33	--	--	8.7	--	.3	--	130	0	110
MAR												
08...A	1500	110	20	--	--	7.5	--	.3	--	110	0	90
MAY												
03...A	1120	110	12	--	--	6.8	--	.3	--	120	0	98
AUG												
03...	0900	150	16	41	11	8.4	11	.3	1.3	160	0	130

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
DEC											
07...	--	10	--	--	--	--	--	--	--	200	--
JAN											
05...	34	10	--	--	166	152	.23	299	--	300	--
FEB											
02...	--	8.2	--	--	--	--	--	--	--	200	--
MAR											
08...	--	5.2	--	--	--	--	--	--	--	200	--
MAY											
03...	--	3.8	--	--	--	--	--	--	--	200	--
AUG											
03...	24	5.9	.1	13	--	184	.25	5.81	.00	170	20

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, on right bank 0.2 mi (0.3 km) upstream from mouth, and 5.3 mi (8.5 km) north of Branscomb.
Rain gage No. 1: Lat 39°43'50", long 123°38'07", in NW¼NW¼ sec.28, T.22 N., R.16 W., altitude, 1,440 ft (439 m) at site 0.5 mi (0.8 km) east of gaging station.

DRAINAGE AREA.--6.50 mi^2 (16.84 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-state recorder and one recording and storage-type precipitation gage. Datum of gage is 1,391.08 ft (424.001 m) above mean sea level.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft^3/s (64.6 m^3/s) Mar. 29, 1974, gage height, 9.77 ft (2.978 m), from rating curve extended above 660 ft^3/s (18.7 m^3/s) on basis of slope-area measurements at gage heights 9.40 ft (2.865 m) and 11.41 ft (3.478 m); minimum daily, 0.39 ft^3/s (0.011 m^3/s) Aug. 13-23, Sept. 7-15, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 11.41 ft (3.478 m), from floodmarks, discharge, 3,660 ft^3/s (104 m^3/s) by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25 ft^3/s (0.71 m^3/s) Mar. 9, gage height, 4.20 ft (1.280 m), no peak above base of 450 ft^3/s (13 m^3/s); minimum daily, 0.39 ft^3/s (0.011 m^3/s) Aug. 13-23, Sept. 7-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.88	1.0	1.4	1.2	4.9	5.5	2.2	1.9	.95	.45	.48
2	1.1	.96	1.0	5.9	1.2	4.3	5.3	2.4	1.8	.95	.45	.51
3	1.1	1.0	1.0	7.5	1.2	4.3	4.9	2.7	1.8	.95	.45	.51
4	1.2	.96	1.0	5.1	1.2	4.1	4.5	2.9	1.7	.95	.45	.51
5	1.2	.96	1.0	3.3	1.2	3.8	4.1	2.6	1.7	.87	.45	.51
6	1.2	.96	1.0	2.6	1.2	3.5	4.0	2.3	1.6	.87	.45	.45
7	1.1	.96	1.0	2.2	1.2	3.3	3.8	2.2	1.6	.87	.45	.39
8	1.1	.89	1.0	2.1	3.2	3.5	4.1	2.2	1.5	.65	.45	.39
9	1.0	.88	1.0	1.8	4.5	18	3.8	2.2	1.5	.65	.45	.39
10	1.0	.88	1.0	1.8	3.5	13	3.5	2.2	1.5	.65	.45	.39
11	1.0	2.0	1.0	1.9	2.7	9.0	3.3	2.2	1.5	.65	.45	.39
12	1.0	1.5	1.0	2.9	2.3	8.1	3.2	2.2	1.5	.65	.45	.39
13	.96	1.5	1.0	2.9	2.2	7.5	2.9	2.1	1.5	.65	.39	.39
14	.96	3.9	1.0	2.7	2.1	7.0	2.7	1.9	1.4	.65	.39	.39
15	.96	3.7	1.0	2.4	1.8	8.7	2.7	1.9	1.4	.65	.39	.39
16	.96	2.3	1.0	2.2	1.8	9.9	2.4	1.9	1.3	.65	.39	.45
17	.88	1.7	1.0	2.1	1.6	9.3	2.4	1.8	1.3	.65	.39	.95
18	.88	1.5	1.0	1.9	1.6	8.4	2.3	1.9	1.3	.65	.39	.87
19	.88	1.3	1.0	1.8	1.6	8.1	2.2	2.1	1.2	.65	.39	3.0
20	.88	1.2	1.0	1.7	2.1	7.8	2.2	1.9	1.2	.65	.39	2.6
21	.88	1.2	1.0	1.7	10	8.1	2.2	1.8	1.2	.65	.39	1.6
22	.88	1.1	.96	1.6	8.1	8.1	2.2	1.8	1.1	.65	.39	1.2
23	.88	1.1	.88	1.6	7.8	8.1	2.1	1.8	1.1	.58	.39	1.0
24	.80	1.1	.88	1.6	8.4	9.0	2.1	1.7	1.0	.58	.45	1.0
25	.96	1.1	.88	1.5	6.7	9.3	2.1	1.7	1.0	.58	.78	.95
26	.96	1.1	.88	1.5	5.3	9.0	2.1	2.2	1.0	.58	.83	.95
27	.88	1.0	.88	1.3	4.7	8.4	2.1	2.3	.95	.51	.72	.79
28	.88	1.0	.88	1.2	4.7	8.1	1.9	2.3	.95	.45	.65	7.5
29	.88	1.0	1.1	1.2	---	7.3	1.9	2.3	.95	.45	.65	5.7
30	.88	1.0	2.2	1.2	---	6.7	1.9	2.2	.95	.45	.58	3.2
31	.88	---	1.6	1.2	---	6.0	---	2.1	---	.45	.51	---
TOTAL	30.12	40.63	32.14	71.8	95.1	234.6	90.4	66.0	40.40	20.79	14.86	38.24
MEAN	.97	1.35	1.04	2.32	3.40	7.57	3.01	2.13	1.35	.67	.48	1.27
MAX	1.2	3.9	2.2	7.5	10	18	5.5	2.9	1.9	.95	.83	7.5
MIN	.80	.88	.88	1.2	1.2	3.3	1.9	1.7	.95	.45	.39	.39
AC-FT	60	81	64	142	189	465	179	131	80	41	29	76
(†)	.29	3.26	1.15	3.78	5.57	5.34	1.16	2.33	0	0	.88	5.22

CAL YR 1976 TOTAL 3674.21 MEAN 10.0 MAX 278 MIN .80 AC-FT 7290
WTR YR 1977 TOTAL 775.08 MEAN 2.12 MAX 18 MIN .39 AC-FT 1540

† Precipitation, in inches, at rain gage No. 1.

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.
CHEMICAL ANALYSES: Water years 1968 to current year.
WATER TEMPERATURES: Water years 1968 to current year.
SEDIMENT RECORDS: Water years 1969 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1967 to current year.
SEDIMENT RECORDS: October 1973 to September 1975.

INSTRUMENTATION.--Temperature recorder since October 1967.

REMARKS.--Chemical-quality samples collected 0.2 mi (0.3 km) downstream from gaging station.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 21.5°C July 31, Aug. 2, 1977; minimum recorded, 2.0°C on several days in 1976 and 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 21.5°C July 31, Aug. 2; minimum, 2.0°C on several days during December and January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM .7UM-MF (COL./ 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)
OCT										
27...	1500	1.0	140	7.8	7.0	--	--	--	--	--
NOV										
30...	1400	1.1	127	7.7	3.0	11.1	82	64	18	56
DEC										
22...	1530	.98	147	7.5	2.5	12.7	93	85	82	61
JAN										
27...	1430	1.2	185	7.6	3.0	--	--	--	--	--
MAR										
10...	1520	12	111	7.6	6.0	11.1	--	38	81	28
APR										
13...	1600	3.5	124	7.7	10.5	10.0	89	16	7	23
MAY										
24...	1140	1.7	130	8.1	9.5	10.5	91	--	--	--
JUN										
28...	0815	.90	140	7.8	17.5	8.0	84	99	17	45
JUL										
27...	1940	.48	151	7.9	17.5	8.4	88	48	87	61
SEP										
07...	0945	.37	153	7.8	14.0	8.9	86	42	--	28

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT									
27...	57	0	15	4.8	7.8	23	.4	.6	74
NOV									
30...	29	0	7.3	2.6	12	47	1.0	.4	60
DEC									
22...	55	0	14	4.9	8.4	25	.5	.5	71
JAN									
27...	41	0	11	3.2	34	64	2.3	.5	124
MAR									
10...	25	0	6.4	2.1	5.1	31	.4	.3	48
APR									
13...	40	5	10	3.6	6.6	26	.5	.6	43
MAY									
24...	53	0	14	4.3	7.4	23	.4	.6	72
JUN									
28...	58	0	15	5.0	8.6	24	.5	.8	80
JUL									
27...	62	0	17	4.7	8.7	23	.5	.8	84
SEP									
07...	63	0	17	5.0	8.9	23	.5	.9	88

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

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
OCT 27...	0	61	7.6	14	.1	14	100	.14	.27
NOV 30...	0	49	2.7	5.2	.1	11	71	.10	.21
DEC 22...	0	58	4.0	2.7	.1	13	83	.11	.22
JAN 27...	0	102	3.5	1.7	.1	12	127	.17	.44
MAR 10...	0	39	2.4	3.1	.2	11	55	.07	1.77
APR 13...	0	35	3.9	2.5	.2	13	62	.08	.60
MAY 24...	0	59	4.8	2.5	.1	12	81	.11	.39
JUN 28...	0	66	3.6	2.8	.1	14	89	.12	.22
JUL 27...	0	69	4.2	3.1	.1	15	95	.13	.12
SEP 07...	0	72	3.5	3.3	.1	15	97	.13	.10

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	CYANIDE (CN) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
OCT 27...	.01	.00	.01	.01	--	.04	--	40	20
NOV 30...	.08	.00	.08	.07	--	.03	--	30	20
DEC 22...	.02	.00	.02	.02	--	.04	--	50	20
JAN 27...	--	--	--	.01	.00	.04	--	30	20
MAR 10...	.06	.00	.06	.06	--	.02	.00	30	30
APR 13...	.01	.00	.01	.01	--	.02	--	40	40
MAY 24...	.04	.00	.04	.03	--	.03	--	60	10
JUN 28...	.07	.02	.09	--	--	.04	--	80	30
JUL 27...	.05	.00	.05	--	--	.03	--	70	10
SEP 07...	.08	.01	.09	--	--	.04	.00	70	40

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
MAR 10...	1520	0	0	<10	0	<10	10
SEP 07...	0945	0	200	<10	10	<10	10

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAR 10...	<100	10	.0	0	<10	0
SEP 07...	<10	0	.0	0	<10	10

DATE	TIME	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (U) (UG/L)
OCT 05...	1355	130	<1	<2.0	<.4	.9	<.4	.8	<.4	.05	.05

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	11.0	6.5	6.5	3.0	3.0	3.0	3.0	2.5	2.5	4.5	4.5
2	11.0	11.0	6.5	6.0	3.0	3.0	3.0	3.0	2.5	2.5	4.5	4.0
3	11.0	11.0	6.5	6.5	3.0	3.0	4.0	3.5	3.0	2.5	4.0	4.0
4	11.0	10.5	6.5	6.5	3.0	3.0	4.0	4.0	3.0	3.0	4.0	4.0
5	10.5	10.0	6.5	6.5	3.0	3.0	4.0	3.5	3.5	3.0	4.0	4.0
6	10.5	10.0	6.5	6.5	3.0	3.0	3.5	3.0	3.5	3.5	4.0	4.0
7	10.0	10.0	6.5	6.5	3.0	3.0	3.0	2.5	3.5	3.0	4.5	4.0
8	10.0	10.0	6.5	6.5	3.0	3.0	2.5	2.5	4.0	3.5	5.5	4.5
9	10.0	9.5	6.5	6.5	3.0	3.0	2.5	2.0	5.0	4.0	5.5	5.0
10	9.5	9.0	7.0	6.0	3.0	3.0	2.5	2.0	5.0	4.5	5.5	4.5
11	9.0	9.0	7.0	7.0	3.0	3.0	3.0	2.5	4.5	4.5	5.0	4.5
12	9.0	9.0	7.0	7.0	3.0	3.0	3.5	3.0	4.5	4.5	5.0	4.5
13	9.0	9.0	7.0	7.0	3.0	3.0	3.5	3.5	5.0	4.5	4.5	4.0
14	9.0	8.5	7.0	7.0	3.0	2.5	3.5	3.5	5.0	5.0	4.0	3.5
15	8.5	8.0	8.0	7.0	2.5	2.5	3.5	3.5	5.0	5.0	3.5	3.5
16	8.0	8.0	8.0	8.0	2.5	2.5	3.5	3.0	5.0	5.0	4.5	3.5
17	8.0	7.5	8.0	8.0	2.5	2.5	3.0	3.0	5.0	5.0	5.0	4.5
18	7.5	7.5	8.0	8.0	2.5	2.5	3.0	3.0	5.0	5.0	5.0	4.5
19	7.5	7.0	8.0	7.5	2.5	2.5	3.0	3.0	5.0	5.0	5.5	5.0
20	7.0	6.5	7.5	7.0	2.5	2.5	4.0	3.0	5.0	5.0	5.5	5.0
21	6.5	6.5	7.0	7.0	2.5	2.5	4.5	4.0	6.0	5.0	6.0	5.5
22	6.5	6.5	7.0	7.0	3.0	2.5	4.5	4.5	6.0	6.0	6.5	6.0
23	6.5	6.5	7.0	6.5	3.0	2.5	4.5	4.5	6.0	6.0	6.0	6.0
24	6.5	6.5	6.5	6.0	2.5	2.5	4.5	4.0	6.0	5.5	6.0	5.0
25	6.5	6.0	6.0	6.0	3.0	2.5	4.0	4.0	5.5	5.0	5.5	5.0
26	7.0	6.0	6.0	5.5	2.5	2.5	4.0	3.5	5.0	5.0	6.0	5.0
27	7.0	6.0	5.5	4.5	2.5	2.5	3.5	2.0	5.0	5.0	5.5	5.0
28	6.5	6.0	4.5	4.0	2.5	2.5	2.0	2.0	5.0	4.5	5.5	5.0
29	6.5	6.0	4.0	3.5	3.0	2.0	2.0	2.0	---	---	5.5	5.0
30	6.5	6.5	3.5	3.0	3.0	3.0	2.0	2.0	---	---	5.5	5.0
31	6.5	6.5	---	---	3.0	3.0	2.5	2.0	---	---	6.0	5.0
MONTH	11.0	6.0	8.0	3.0	3.0	2.0	4.5	2.0	6.0	2.5	6.5	3.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	6.0	8.5	8.5	12.5	11.5	19.5	19.0	21.0	19.5	15.0	14.5
2	6.5	6.0	8.5	8.5	12.0	10.5	19.5	18.0	21.5	20.0	14.5	14.5
3	7.0	6.0	8.5	8.5	---	---	19.0	17.0	21.0	19.5	14.5	13.5
4	8.0	6.5	8.5	8.0	---	---	17.5	16.5	20.5	19.0	14.5	14.0
5	8.5	7.0	8.0	8.0	---	---	17.5	16.0	20.0	18.5	15.0	14.5
6	9.0	7.5	8.0	7.0	---	---	17.5	16.0	18.5	18.0	15.0	14.0
7	9.0	8.5	7.0	7.0	---	---	18.5	16.5	18.0	17.5	15.0	14.0
8	8.5	8.0	7.0	7.0	---	---	18.5	17.0	18.5	17.5	14.5	14.0
9	9.0	8.0	7.0	7.0	---	---	18.5	17.0	18.5	17.5	14.5	14.0
10	8.5	7.5	7.0	7.0	---	---	18.5	17.0	19.0	17.5	14.0	14.0
11	9.0	7.5	7.0	7.0	---	---	19.5	17.5	19.0	17.5	14.0	13.5
12	9.5	8.0	7.0	7.0	---	---	19.5	18.0	19.0	17.0	13.5	13.5
13	10.0	8.0	7.5	6.5	---	---	19.5	17.5	18.0	17.0	13.5	13.0
14	9.0	8.5	7.5	7.0	---	---	19.5	17.5	17.5	16.5	13.0	13.0
15	9.0	9.0	7.5	6.5	---	---	20.0	18.0	17.5	16.0	13.0	13.0
16	9.5	9.0	8.0	7.0	---	---	20.5	18.5	17.0	16.5	13.0	13.0
17	9.0	8.0	8.0	7.5	---	---	20.5	18.5	17.0	17.0	13.0	13.0
18	9.0	8.0	7.5	6.0	---	---	20.0	19.0	17.5	16.5	13.0	13.0
19	9.0	8.0	8.5	7.0	---	---	19.5	18.5	17.5	16.0	13.0	13.0
20	9.0	8.5	9.5	8.5	---	---	19.5	18.5	17.0	16.0	13.0	13.0
21	9.0	8.0	9.0	8.0	---	---	19.5	18.0	17.5	16.5	13.0	13.0
22	9.0	8.5	9.0	9.0	---	---	19.5	18.0	17.5	16.0	13.0	13.0
23	9.5	9.0	9.0	8.0	---	---	20.0	18.5	17.5	16.5	13.0	12.5
24	9.5	9.0	8.5	8.0	---	---	20.0	18.5	16.5	16.5	12.5	12.5
25	9.0	8.5	8.0	8.0	---	---	19.0	18.0	16.5	16.0	12.5	12.5
26	9.0	8.5	8.0	8.0	---	---	19.0	17.5	16.0	15.0	12.5	12.5
27	8.5	7.5	8.0	7.0	---	---	19.0	18.0	15.0	15.0	12.5	12.5
28	8.5	8.0	9.5	7.5	---	---	19.0	18.0	15.5	15.0	12.5	12.5
29	8.0	8.0	10.0	7.5	21.0	19.5	19.5	18.0	15.5	15.0	12.5	12.5
30	8.5	8.5	10.5	8.5	21.0	19.5	21.0	19.0	15.5	15.0	12.5	12.0
31	---	---	12.0	9.5	---	---	21.5	19.5	15.0	14.5	---	---
MONTH	10.0	6.0	12.0	6.0	---	---	21.5	16.0	21.5	14.5	15.0	12.0

11475560 ELDER CREEK NEAR BRANSCOMB, CA--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT					
05...	1210	10.5	1.2	2	.01
27...	1235	7.0	.88	1	.00
NOV					
30...	1015	3.0	1.0	1	.00
DEC					
22...	1430	3.0	.88	1	.00
JAN					
27...	1115	2.0	1.4	2	.01
MAR					
10...	1345	5.5	12	2	.06
APR					
13...	1430	10.0	2.7	1	.01
MAY					
24...	1020	8.0	1.7	1	.00
JUN					
27...	1815	21.0	.95	1	.00
JUL					
27...	1705	--	.45	1	.00

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA

LOCATION.--Lat 39°52'29", long 123°43'10", in NE¼SE¼ sec.3, T.23 N., R.17 W., Mendocino County, on right bank near Standish-Hickey State Park, 0.2 mi (0.3 km) upstream from Rock Creek, and 0.7 mi (1.1 km) northwest of Leggett.

DRAINAGE AREA.--248 mi^2 (642 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 693.32 ft (211.324 m) above mean sea level.

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

AVERAGE DISCHARGE.--12 years, 899 ft^3/s (25.46 m^3/s), 651,300 acre-ft/yr (803 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,700 ft^3/s (2,060 m^3/s) Jan. 4, 1966, gage height, 25.4 ft (7.74 m) from floodmarks, from rating curve extended above 21,000 ft^3/s (595 m^3/s) on basis of slope-area measurement at gage height 26.13 ft (7.964 m); minimum daily, 7.3 ft^3/s (0.21 m^3/s) Aug. 4-6, 12, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 26.13 ft (7.964 m) from floodmarks, discharge, 78,700 ft^3/s (2,230 m^3/s) by slope-area measurement of maximum flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft^3/s (39.1 m^3/s) Mar. 9, gage height, 5.19 ft (1.582 m), no peak above base of 8,500 ft^3/s (241 m^3/s); minimum daily, 7.3 ft^3/s (0.21 m^3/s) Aug. 4-6, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	25	33	55	40	176	145	58	44	14	7.7	12
2	27	25	33	258	40	149	136	70	41	13	7.7	11
3	27	25	33	512	39	147	125	87	38	13	7.7	11
4	26	25	33	298	37	134	118	94	37	13	7.3	11
5	26	24	33	155	38	120	108	80	36	13	7.3	10
6	25	24	32	114	38	108	101	76	35	12	7.3	10
7	24	24	31	87	38	105	96	69	33	12	7.7	9.6
8	24	24	31	75	75	145	112	68	31	12	7.7	9.1
9	23	24	35	66	210	724	110	64	29	12	7.7	9.1
10	22	24	34	62	149	517	94	61	29	11	7.7	9.1
11	22	44	33	65	112	333	87	60	30	11	7.7	9.1
12	22	58	32	118	90	315	80	57	30	11	7.3	8.6
13	21	57	32	143	78	336	76	55	30	10	7.7	8.6
14	22	125	32	108	69	298	73	52	28	9.6	7.7	8.2
15	22	189	32	90	64	354	69	49	27	9.6	7.7	8.2
16	22	108	32	79	60	608	68	46	26	9.6	7.7	9.1
17	22	73	31	70	55	526	64	45	26	9.1	7.7	14
18	22	58	30	64	52	399	60	48	25	8.6	7.7	19
19	22	50	30	60	50	322	58	57	25	8.2	7.7	75
20	22	45	30	57	61	265	56	53	24	9.1	8.2	79
21	22	43	29	53	531	225	55	49	23	8.6	8.2	57
22	22	40	29	52	435	195	53	45	22	8.2	7.7	38
23	22	39	30	49	344	192	52	44	21	7.7	7.7	29
24	23	38	30	48	362	284	51	43	19	8.2	8.2	25
25	27	36	29	46	255	391	51	42	18	8.2	15	23
26	27	35	29	45	192	315	52	64	16	8.2	21	21
27	28	34	29	45	153	255	51	80	15	8.2	17	23
28	27	34	29	43	160	225	48	70	15	7.7	20	178
29	26	33	31	42	---	198	50	58	14	7.7	16	198
30	25	33	53	42	---	176	52	51	14	7.7	14	103
31	24	---	61	41	---	158	---	48	---	7.7	12	---
TOTAL	742	1416	1021	3042	3827	8695	2351	1843	801	308.9	299.7	1035.7
MEAN	23.9	47.2	32.9	98.1	137	280	78.4	59.5	26.7	9.96	9.67	34.5
MAX	28	189	61	512	531	724	145	94	44	14	21	198
MIN	21	24	29	41	37	105	48	42	14	7.7	7.3	8.2
AC-FT	1470	2810	2030	6030	7590	17250	4660	3660	1590	613	594	2050

CAL YR 1976	TOTAL	138003.0	MEAN	377	MAX	15600	MIN	21	AC-FT	273700
WTR YR 1977	TOTAL	25382.3	MEAN	69.5	MAX	724	MIN	7.3	AC-FT	50350

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 26.5°C July 27, 1973; minimum recorded, 2.5°C Dec. 11-14, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.0°C Aug. 19; minimum, 3.5°C Jan. 6, 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
AUG 23...	1700	7.2	255	8.7	24.0	10.1	110	4	27	11

DATE	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
AUG 23...	11	17	.5	1.4	130	1	110	12	9.8	.1

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 23...	6.3	144	.20	2.80	.02	.02	.00	270	20

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	18.0	14.5	13.5	8.5	8.0	5.0	5.0	7.5	7.0	9.5	8.0
2	19.0	18.5	14.5	13.5	8.0	7.5	5.0	5.0	7.5	6.5	8.5	7.5
3	19.0	17.5	14.5	13.5	8.0	7.5	5.0	5.0	7.0	6.5	9.5	8.0
4	19.0	17.5	14.0	13.0	7.5	7.5	5.0	5.0	7.5	6.5	9.5	7.5
5	18.5	17.0	14.0	13.0	7.5	7.5	5.0	4.0	7.5	7.0	10.0	8.0
6	19.0	17.0	14.0	13.0	7.5	7.0	4.0	3.5	8.5	7.5	9.5	8.0
7	19.0	17.5	14.0	13.0	7.5	7.0	4.0	3.5	8.0	7.5	9.0	9.0
8	19.0	17.5	13.0	12.5	7.0	7.0	4.5	4.0	8.5	8.0	10.0	9.0
9	19.0	17.5	13.0	12.5	7.0	7.0	4.0	4.0	9.0	8.5	10.0	9.0
10	18.5	17.0	13.5	13.0	7.0	6.5	4.5	4.0	9.5	8.5	9.5	8.0
11	18.5	17.0	13.5	13.0	6.5	6.5	5.0	4.5	10.0	9.0	9.0	8.0
12	18.5	17.0	13.5	13.0	6.5	6.0	6.0	5.0	10.0	9.0	9.0	8.5
13	18.0	16.5	13.0	13.0	6.0	6.0	6.0	5.5	10.0	9.0	8.5	8.0
14	17.5	16.0	13.0	12.5	6.0	6.0	6.0	5.5	10.5	9.0	8.5	7.5
15	17.0	15.5	13.0	12.5	6.0	5.5	6.0	5.5	10.5	9.0	8.0	7.5
16	16.5	15.5	13.5	13.0	5.5	5.5	6.0	5.5	10.5	9.0	7.5	7.0
17	16.5	15.0	13.0	12.5	5.5	5.0	6.0	5.5	10.5	9.0	9.0	7.5
18	16.5	15.0	13.0	12.5	5.0	5.0	5.5	5.0	10.5	9.5	9.5	7.5
19	16.5	15.0	13.0	12.5	5.0	4.5	6.0	5.5	10.5	9.5	10.5	8.5
20	16.0	14.5	12.5	12.0	4.5	4.5	6.5	6.0	10.0	9.5	11.0	8.5
21	15.5	14.5	12.5	12.5	4.5	4.5	7.0	6.5	10.0	9.5	11.5	9.0
22	15.5	14.5	12.5	12.0	4.5	4.5	7.5	7.0	9.5	9.0	12.0	9.5
23	15.5	14.5	12.0	11.5	4.5	4.5	7.5	7.0	9.0	8.5	11.0	10.5
24	14.5	14.0	11.5	11.0	4.5	4.5	7.0	7.0	8.5	8.0	10.5	9.5
25	15.0	14.0	11.5	11.0	4.5	4.5	7.5	7.0	9.0	8.0	10.5	8.5
26	15.0	12.0	11.0	10.0	4.5	4.5	7.0	6.5	9.0	7.5	11.5	8.5
27	14.5	13.5	10.0	9.5	4.5	4.5	7.0	6.5	10.0	8.0	11.0	9.5
28	14.5	13.0	9.5	9.0	5.0	4.5	7.0	6.5	9.5	8.5	11.0	8.5
29	14.0	13.0	9.5	8.5	5.0	5.0	7.0	6.0	---	---	11.0	8.5
30	14.0	13.5	9.0	8.5	5.0	5.0	7.0	6.5	---	---	10.5	8.5
31	14.0	13.5	---	---	5.0	5.0	7.5	7.0	---	---	11.0	8.0
MONTH	19.5	12.0	14.5	8.5	8.5	4.5	7.5	3.5	10.5	6.5	12.0	7.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	9.5	16.0	14.5	20.0	17.5	23.0	21.0	23.5	22.0	23.5	20.5
2	12.5	9.5	15.5	14.5	20.0	17.0	23.0	20.5	24.0	22.0	23.5	20.5
3	13.0	10.0	16.5	14.5	19.0	17.0	22.5	20.0	24.5	22.0	23.0	20.0
4	13.5	10.5	17.0	14.0	20.5	17.0	22.5	19.5	24.5	22.0	24.0	21.0
5	14.0	11.0	15.0	14.0	21.5	18.0	22.0	19.5	24.5	22.0	24.0	21.0
6	14.5	12.0	14.5	13.5	22.0	18.5	22.5	19.5	24.0	22.0	24.0	21.0
7	14.0	12.5	14.0	13.0	21.5	19.0	23.0	19.5	23.5	21.5	23.5	21.0
8	15.0	13.0	15.0	13.0	21.5	19.0	22.5	20.0	24.0	21.5	23.5	21.0
9	14.5	12.5	14.0	14.0	20.5	19.0	22.5	20.0	24.0	21.5	24.0	21.0
10	14.0	11.5	15.0	14.0	19.0	18.5	22.5	19.5	24.0	22.0	23.5	21.0
11	14.5	12.0	14.5	14.0	20.5	18.5	23.0	20.0	24.5	22.0	23.0	21.0
12	15.0	12.0	16.0	13.0	21.5	18.0	23.0	20.5	24.0	22.0	23.0	21.0
13	15.5	12.5	16.5	13.5	20.5	18.5	23.5	20.5	24.0	22.0	23.0	20.5
14	15.0	12.5	16.5	14.0	22.0	19.0	23.5	20.5	24.0	22.0	21.5	20.5
15	15.5	12.5	16.0	14.0	22.5	19.0	24.0	21.0	24.0	22.0	21.5	20.0
16	16.5	13.5	16.0	14.0	22.5	19.5	24.0	21.0	23.5	22.0	20.0	19.5
17	15.5	12.5	16.0	14.0	22.0	19.5	23.5	21.0	23.5	22.0	20.0	19.0
18	15.5	12.5	14.0	13.5	22.0	19.5	24.0	21.5	24.5	22.0	20.0	19.0
19	15.5	12.5	17.5	14.0	22.0	19.5	24.0	21.5	25.0	22.0	20.5	19.0
20	15.5	12.5	18.0	15.0	22.0	19.0	23.5	21.0	24.0	22.0	20.5	18.5
21	15.5	12.5	18.0	15.5	23.0	19.5	23.5	21.0	24.0	22.0	20.5	18.5
22	15.5	13.0	16.0	15.5	23.0	20.0	23.5	20.5	24.0	22.0	19.5	18.0
23	15.5	13.0	16.5	15.0	23.0	20.0	23.5	21.0	24.5	22.5	19.5	17.5
24	14.5	13.5	17.5	14.5	23.0	20.5	23.0	21.0	23.5	22.5	20.5	18.0
25	15.5	14.5	16.5	15.0	23.5	20.5	23.5	21.0	23.5	21.5	20.5	18.0
26	16.5	13.5	17.5	15.5	23.5	20.5	23.0	21.0	23.5	21.5	20.5	18.5
27	16.5	13.5	18.5	15.0	24.0	20.5	23.0	21.0	23.5	21.5	19.0	18.5
28	14.5	13.5	18.5	15.5	24.0	21.0	22.5	20.5	24.0	21.5	18.5	17.5
29	14.5	13.5	19.0	15.5	24.5	21.5	22.5	20.5	24.0	21.5	18.5	16.5
30	15.0	14.0	19.5	16.0	23.0	21.5	23.5	20.5	24.0	21.5	18.5	16.5
31	---	---	20.0	15.5	---	---	23.5	21.0	23.0	21.0	---	---
MONTH	16.5	9.5	20.0	13.0	24.5	17.0	24.0	19.5	25.0	21.0	24.0	16.5

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA

LOCATION.--Lat 40°10'55", long 123°46'30", in NW¼ sec.30, T.3 S., R.4 E., Humboldt County, on right bank at Sylvandale Campgrounds on U.S. Highway 101, 0.5 mi (0.8 km) upstream from Rocky Glen Creek, 4.3 mi (6.9 km) southeast of Miranda, and 20 mi (32 km) upstream from mouth.

DRAINAGE AREA.--537 mi^2 (1,391 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1395: Drainage area. WSP 2129: 1955.

GAGE.--Water-stage recorder. Datum of gage is 217.57 ft (66.315 m) above mean sea level. 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 poor. Occasional storage and release for recreation use during summer months at Benbow Dam. No diversion above station.

AVERAGE DISCHARGE.--38 years, 1,898 ft^3/s (53.75 m^3/s), 1,375,000 acre-ft/yr (1.70 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 199,000 ft^3/s (5,640 m^3/s) Dec. 22, 1964, gage height, 46.0 ft (14.02 m) from floodmarks, from rating curve extended above 53,000 ft^3/s (1,500 m^3/s) on basis of slope-area measurement at gage height 42.7 ft (13.01 m); minimum observed, 9 ft^3/s (0.25 m^3/s) Oct. 17, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 2,260 ft^3/s (64.0 m^3/s) Mar. 10, gage height, 7.26 ft (2.213 m), no peak above base of 15,000 ft^3/s (425 m^3/s); minimum daily, 13 ft^3/s (0.37 m^3/s) Aug. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	44	77	140	88	426	340	118	91	30	13	24
2	57	44	77	130	86	394	320	128	83	29	13	24
3	55	44	77	320	84	394	290	160	77	28	13	20
4	54	43	77	1100	83	355	270	184	73	27	14	19
5	51	43	77	780	80	322	250	191	70	26	14	18
6	48	43	77	320	81	320	230	170	68	25	14	17
7	45	43	77	220	81	340	220	150	63	24	14	16
8	44	43	75	185	82	660	215	143	63	24	15	16
9	44	41	77	160	150	2000	240	140	60	23	15	16
10	44	45	82	143	480	1580	225	130	57	23	15	16
11	41	83	77	135	330	925	199	121	58	22	15	16
12	40	122	77	150	252	740	180	129	58	22	15	16
13	40	124	75	250	200	792	170	115	57	20	15	16
14	40	194	75	280	169	696	160	112	55	21	15	15
15	40	341	73	220	150	840	159	103	55	21	15	15
16	39	313	73	190	138	1240	150	99	52	20	15	15
17	39	207	73	168	125	1170	145	95	50	19	15	16
18	39	156	72	150	115	939	138	97	48	19	15	22
19	38	131	72	140	110	759	132	110	47	19	15	54
20	38	117	72	130	112	628	128	110	45	18	15	110
21	37	106	72	121	140	532	121	103	42	17	16	170
22	37	99	72	114	1210	460	120	97	40	16	16	129
23	37	95	70	110	812	440	115	91	38	16	15	99
24	38	91	70	103	809	677	112	89	37	16	15	75
25	41	89	70	100	683	896	110	83	35	15	16	65
26	43	85	70	100	511	799	110	95	34	16	19	55
27	44	83	70	98	408	646	111	124	32	16	39	51
28	44	81	70	96	370	548	110	160	31	17	34	101
29	44	79	70	92	---	480	105	127	32	15	37	385
30	44	77	81	90	---	426	110	110	30	14	32	394
31	44	---	85	89	---	385	---	97	---	14	28	---
TOTAL	1344	3106	2312	6424	7939	21809	5285	3781	1581	632	557	2005
MEAN	43.4	104	74.6	207	284	704	176	122	52.7	20.4	18.0	66.8
MAX	57	341	85	1100	1210	2000	340	191	91	30	39	394
MIN	37	41	70	89	80	320	105	83	30	14	13	15
AC-FT	2670	6160	4590	12740	15750	43260	10480	7500	3140	1250	1100	3980

CAL YR 1976 TOTAL 313282 MEAN 856 MAX 35100 MIN 37 AC-FT 621400
WTR YR 1977 TOTAL 56775 MEAN 156 MAX 2000 MIN 13 AC-FT 112600

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.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1960 to current year.

INSTRUMENTATION.--Temperature recorder since November 1960.

REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading.

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: Minimum, 4.5°C Jan. 6-9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT 05...	1300	--	51	275	8.0	19.0	0	10.5
NOV 09...	1140	--	43	283	8.0	12.5	1	10.1
DEC 07...	1300	--	77	274	7.9	9.0	0	11.6
JAN 05...	1435	780	--	203	8.1	7.0	7	12.9
FEB 02...	1610	86	--	255	8.2	10.0	0	13.3
MAR 08...	1530	660	--	216	8.2	12.0	4	11.8
APR 05...	1330	250	--	208	8.2	18.0	1	11.0
MAY 03...	1225	160	--	237	8.2	17.5	1	10.9
JUN 14...	1315	--	55	255	8.2	23.0	3	11.2
JUL 12...	1230	--	22	240	8.4	18.0	1	10.7
AUG 09...	1215	15	--	227	8.4	25.0	1	10.6
SEP 20...	1145	110	--	269	8.1	20.5	1	9.4

DATE	TIME	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
DEC 07...	1300	130	11	33	10	9.6	14	.4	.8	140	0
JAN 05...	1435	88	30	--	--	8.3	--	.4	--	71	0
FEB 02...	1610	120	22	--	--	9.2	--	.4	--	120	0
MAR 08...	1530	90	10	--	--	8.6	--	.4	--	97	0
APR 05...	1330	90	8	--	--	7.8	--	.4	--	100	0
MAY 03...	1225	100	2	--	--	9.3	--	.4	--	120	0
JUN 14...	1315	110	12	--	--	10	--	.4	--	120	0

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)
DEC											
07...	120	19	8.6	163	149	.22	33.9	--	.02	.06	100
JAN											
05...	58	--	7.2	--	--	--	--	.15	.01	.03	100
FEB											
02...	98	--	8.8	--	--	--	--	.01	.01	.03	100
MAR											
08...	80	--	6.1	--	--	--	--	.02	.01	.03	100
APR											
05...	82	--	5.0	--	--	--	--	.02	.01	.03	500
MAY											
03...	98	--	5.4	--	--	--	--	.00	.00	.00	100
JUN											
14...	98	--	7.1	--	--	--	--	.00	.00	.00	200

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT MAX	OCT MIN	NOV MAX	NOV MIN	DEC MAX	DEC MIN	JAN MAX	JAN MIN	FEB MAX	FEB MIN	MAR MAX	MAR MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	20.0	19.0	18.0	15.0	8.0	7.5	8.0	6.5	9.0	7.5	10.5	9.5
2	19.0	18.0	19.0	16.0	9.5	8.0	7.5	6.5	8.5	7.0	9.5	8.5
3	19.0	16.5	18.0	16.0	9.5	8.0	6.5	6.5	8.0	6.5	11.0	9.0
4	19.0	15.5	16.5	14.0	9.5	8.0	6.5	6.5	8.0	6.5	11.5	8.5
5	21.0	16.5	16.5	13.0	8.5	7.5	6.5	5.5	8.0	6.5	12.5	10.0
6	23.5	16.5	16.5	13.0	8.5	7.5	5.5	4.5	10.0	8.0	12.0	10.0
7	21.0	17.0	16.5	13.0	9.5	8.0	5.5	4.5	9.0	8.0	11.5	11.0
8	21.0	17.0	15.0	12.0	9.5	8.5	5.5	4.5	10.0	9.0	12.0	11.0
9	21.5	17.0	16.0	12.0	9.0	8.0	6.0	4.5	10.0	9.0	12.0	10.0
10	19.5	16.5	16.0	14.0	8.5	6.5	7.0	5.5	12.0	9.0	10.5	8.5
11	21.0	17.0	15.0	15.0	8.0	6.5	8.0	7.0	11.0	9.0	10.0	9.0
12	21.0	16.0	15.5	14.5	7.0	5.5	8.5	7.5	11.5	9.5	10.5	10.0
13	21.0	15.5	15.0	14.5	7.0	6.0	8.0	7.0	11.5	10.0	10.0	9.0
14	21.0	15.0	14.5	14.0	7.0	6.0	8.0	7.0	12.5	10.0	10.0	9.0
15	20.0	15.0	16.0	14.5	7.0	5.5	8.0	7.0	12.5	9.5	9.5	8.0
16	19.0	15.0	17.0	16.0	7.5	6.0	8.0	7.0	12.5	10.5	10.0	8.0
17	20.0	15.0	16.5	15.5	7.0	5.5	8.0	6.5	12.0	9.5	10.5	8.5
18	20.0	14.0	16.0	14.5	6.5	5.5	8.0	6.0	12.5	9.5	11.0	9.0
19	19.0	15.0	15.0	13.5	6.5	5.5	8.0	6.0	12.0	9.5	13.0	11.0
20	18.5	14.0	15.0	13.5	6.5	5.5	8.5	7.0	12.0	10.0	13.0	11.0
21	17.5	15.0	15.0	13.5	6.5	5.5	9.0	7.5	11.0	10.0	14.0	11.0
22	17.0	14.0	15.0	13.5	7.0	5.5	10.0	8.0	10.0	9.0	15.0	13.0
23	17.0	14.0	14.0	13.5	7.5	6.5	9.5	8.5	10.0	9.0	13.5	12.5
24	15.0	14.0	14.0	13.5	7.5	6.5	9.0	8.0	9.0	8.5	12.5	10.0
25	16.0	14.0	13.5	12.0	8.5	7.0	8.5	7.5	10.0	8.0	12.0	9.0
26	16.0	13.5	12.0	10.0	8.5	6.5	8.0	6.5	10.0	8.5	13.5	10.5
27	16.0	13.0	10.0	8.5	8.5	7.5	7.5	6.5	11.5	9.5	13.5	11.0
28	15.5	13.0	8.5	6.5	8.5	6.5	7.5	6.5	11.5	10.0	12.0	9.5
29	16.0	13.0	8.5	6.5	8.5	7.5	7.5	6.0	--	--	12.5	9.5
30	17.0	15.0	8.5	7.5	8.5	7.5	8.0	6.5	--	--	13.5	10.5
31	16.5	14.0	--	--	7.5	6.5	9.5	7.5	--	--	13.5	11.0
MONTH	23.5	13.0	19.0	6.5	9.5	5.5	10.0	4.5	12.5	6.5	15.0	8.0

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	14.5	-- 12.5		17.5	-- 15.5		22.5	-- 19.0		--	-- --		--	-- --		--	-- --	
2	15.5	-- 12.5		18.5	-- 15.5		22.0	-- 17.5		--	-- --		--	-- --		--	-- --	
3	15.5	-- 13.5		17.5	-- 14.5		21.0	-- 17.5		--	-- --		--	-- --		--	-- --	
4	17.5	-- 14.0		17.5	-- 14.5		24.5	-- 18.5		--	-- --		--	-- --		--	-- --	
5	18.5	-- 15.5		17.0	-- 13.5		26.0	-- 21.0		--	-- --		--	-- --		--	-- --	
6	19.0	-- 15.5		15.5	-- 13.5		26.0	-- 21.0		--	-- --		--	-- --		--	23.0	--
7	17.5	-- 15.5		16.5	-- 13.0		24.0	-- 21.0		--	-- --		--	-- --		--	19.5	--
8	17.0	-- 14.5		18.5	-- 13.5		22.0	-- 19.0		--	-- --		--	-- --		--	-- --	
9	16.5	-- 13.5		15.5	-- 14.0		21.5	-- 18.5		--	-- --		--	-- --		--	-- --	
10	16.5	-- 13.0		15.5	-- 13.5		20.5	-- 18.5		--	-- --		--	-- --		--	-- --	
11	17.5	-- 13.5		15.5	-- 13.0		21.5	-- 18.0		--	-- --		--	-- --		--	-- --	
12	18.0	-- 13.5		18.5	-- 13.0		22.5	-- 18.0		--	20.0 --		--	-- --		--	-- --	
13	18.0	-- 13.0		19.0	-- 14.5		24.5	-- 18.5		--	-- --		--	-- --		--	-- --	
14	17.0	-- 13.0		19.0	-- 14.5		26.5	-- 19.0		--	-- --		--	-- --		--	-- --	
15	17.0	-- 13.0		18.5	-- 13.5		28.0	-- 19.5		--	-- --		--	-- --		21.0	--	15.5
16	17.0	-- 12.5		17.5	-- 13.5		28.0	-- 20.0		--	-- --		--	-- --		18.5	--	15.5
17	17.0	-- 12.0		17.5	-- 13.5		27.5	-- 20.5		--	-- --		--	-- --		20.5	--	16.0
18	17.0	-- 12.0		15.5	-- 14.0		22.5	-- 20.0		--	-- --		--	-- --		22.0	--	17.0
19	18.0	-- 12.5		19.0	-- 14.5		23.5	-- 19.0		--	-- --		--	-- --		20.0	--	18.0
20	18.0	-- 13.5		21.0	-- 15.5		26.5	-- 18.0		--	-- --		--	-- --		22.0	--	19.0
21	18.5	-- 12.5		19.5	-- 17.0		29.0	-- 19.5		--	-- --		--	-- --		20.5	--	17.0
22	19.0	-- 14.0		17.5	-- 16.0		--	23.0 --		--	-- --		--	-- --		20.0	--	17.0
23	18.0	-- 14.0		17.0	-- 15.0		--	19.0 --		--	-- --		--	-- --		18.0	--	16.5
24	17.0	-- 14.0		21.0	-- 15.5		--	-- --		--	-- --		--	-- --		20.0	--	17.0
25	17.0	-- 15.5		19.0	-- 17.0		--	-- --		--	24.5 --		--	-- --		20.0	--	16.0
26	19.5	-- 15.0		18.5	-- 16.0		--	-- --		--	-- --		--	-- --		22.0	--	18.0
27	20.0	-- 15.0		20.5	-- 15.0		--	-- --		--	-- --		--	-- --		18.5	--	18.0
28	17.0	-- 15.0		21.0	-- 15.5		--	-- --		--	-- --		--	-- --		19.0	--	18.0
29	17.5	-- 15.0		21.5	-- 16.0		--	-- --		--	-- --		--	-- --		20.0	--	17.0
30	17.5	-- 15.5		22.5	-- 16.5		--	-- --		--	-- --		--	-- --		18.5	--	16.0
31	--	-- --		24.0	-- 18.0		--	-- --		--	-- --		--	-- --		--	--	--
MONTH	20.0	-- 12.0		24.0	-- 13.0		--	-- --		--	-- --		--	-- --		--	--	--

11476600 BULL CREEK NEAR WEOTT, CA

LOCATION.--Lat 40°21'05", long 124°00'10", in SW¼NW¼ sec.30, T.1 S., R.2 E., Humboldt County, on left bank 0.2 mi (0.3 km) downstream from Albee Creek, 4.5 mi (7.2 km) northwest of Weott, and 4.6 mi (7.4 km) upstream from mouth.

DRAINAGE AREA.--28.1 mi^2 (72.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 269.36 ft (82.101 m) above mean sea level. 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 fair. Minor diversions above station for domestic use.

AVERAGE DISCHARGE.--17 years, 121 ft^3/s (3.427 m^3/s), 87,660 acre-ft/yr (108 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft^3/s (185 m^3/s) Dec. 22, 1964, gage height, 20.6 ft (6.28 m) from floodmarks, site and datum then in use, from rating curve extended above 2,100 ft^3/s (59.5 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft^3/s (0.008 m^3/s) Sept. 28, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 173 ft^3/s (4.90 m^3/s) Sept. 19, gage height, 4.35 ft (1.326 m), no peak above base of 1,700 ft^3/s (48 m^3/s); minimum daily, 0.39 ft^3/s (0.011 m^3/s) Sept. 12-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.3	3.9	4.8	5.7	19	24	13	7.0	3.0	.91	.65
2	2.1	2.3	3.9	35	5.1	17	21	18	7.0	2.8	.91	.65
3	2.1	2.3	3.9	49	5.1	23	20	24	6.6	2.4	.82	.73
4	2.1	2.3	3.4	22	5.1	21	18	20	6.6	2.6	.91	.57
5	2.1	2.3	3.2	14	5.1	18	18	18	6.6	2.6	.91	.50
6	2.1	2.3	3.9	11	5.1	17	16	17	6.3	2.6	.91	.50
7	2.1	2.3	3.7	8.0	5.1	21	16	16	5.7	2.4	.91	.44
8	1.9	2.3	3.7	6.9	18	32	20	15	5.7	2.3	.82	.50
9	1.9	2.3	3.7	6.3	18	93	16	14	5.7	2.1	.73	.44
10	1.9	2.5	3.7	6.3	13	58	15	14	5.7	1.9	.73	.44
11	1.9	12	3.7	7.3	11	46	14	13	5.7	1.9	.73	.44
12	1.9	7.8	3.7	13	11	50	14	13	5.7	1.9	.65	.39
13	1.9	9.8	3.7	11	9.8	44	14	12	5.7	1.8	.65	.39
14	1.9	25	3.7	9.8	9.1	38	13	12	5.7	1.8	.65	.39
15	1.7	16	3.7	9.4	11	65	12	11	5.1	1.8	.57	.39
16	1.7	10	3.7	8.7	8.7	65	12	11	4.6	1.8	.57	.73
17	1.7	7.9	3.7	8.3	8.7	55	11	11	4.3	1.8	.57	7.6
18	1.5	7.2	3.7	8.0	8.7	47	11	11	4.3	1.8	.65	21
19	1.5	6.9	3.4	7.6	8.3	43	9.6	12	4.3	1.6	.65	61
20	1.5	6.0	3.4	7.6	12	38	9.6	11	4.1	1.6	.57	47
21	1.5	5.1	3.4	7.6	37	36	9.2	10	3.8	1.6	.65	16
22	1.5	5.7	3.4	7.2	24	34	9.6	8.4	3.6	1.6	.50	10
23	1.5	5.4	3.4	7.2	31	36	8.8	8.0	3.6	1.4	.50	7.6
24	2.0	5.4	3.4	6.9	31	43	8.4	8.8	3.6	1.4	.50	6.6
25	2.8	4.8	3.4	6.6	25	41	14	8.4	3.4	1.4	.87	6.0
26	2.7	4.8	3.4	6.6	20	38	12	10	3.2	1.2	1.0	5.7
27	2.4	4.5	3.2	6.3	17	37	10	9.6	3.0	1.1	.91	5.7
28	2.3	4.5	3.2	6.3	19	35	11	8.8	3.0	1.1	.82	18
29	2.3	4.2	3.4	6.3	---	32	11	8.4	2.8	1.1	.73	21
30	2.3	3.9	5.4	6.0	---	33	12	7.6	2.8	.91	.65	14
31	2.3	---	4.8	6.0	---	31	---	7.6	---	.91	.65	---
TOTAL	61.2	180.1	113.8	327.0	387.6	1206	410.2	381.6	145.2	56.22	22.60	255.35
MEAN	1.97	6.00	3.67	10.5	13.8	38.9	13.7	12.3	4.84	1.81	.73	8.51
MAX	2.8	25	5.4	49	37	93	24	24	7.0	3.0	1.0	61
MIN	1.5	2.3	3.2	4.8	5.1	17	8.4	7.6	2.8	.91	.50	.39
AC-FT	121	357	226	649	769	2390	814	757	288	112	45	506

CAL YR 1976 TOTAL 18744.40 MEAN 51.2 MAX 1240 MIN 1.5 AC-FT 37180
WTR YR 1977 TOTAL 3546.87 MEAN 9.72 MAX 93 MIN .39 AC-FT 7040

11476600 BULL CREEK NEAR WEOTT, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1976 to current year.
SEDIMENT RECORDS: Water years 1976 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1975 to current year.
SEDIMENT RECORDS: October 1975 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum observed, 29.5°C Aug. 3, 10, 1977; minimum observed, 4.0°C Jan. 2, 1976.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 7,220 mg/L Feb. 26, 1976; minimum daily mean, 1 mg/L on many days in 1975-77.
SEDIMENT DISCHARGE: Maximum daily, 25,500 tons (23,100 tonnes) Feb. 26, 1976; minimum daily, 0 tons (0 tonnes) on many days in 1975, 1977.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum observed 29.5°C Aug. 3, 10; minimum observed, 5.0°C Jan. 7.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 956 mg/L Jan. 2; minimum daily mean, 1 mg/L on many days.
SEDIMENT DISCHARGE: Maximum daily, 150 tons (136 tonnes) Mar. 9; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 25...	1640	1.1	259	8.5	21.0	9.6	110	3	34

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 25...	6.1	11	18	.5	1.6	130	0	110	19

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 25...	6.6	.1	6.6	149	.20	.45	.00	60	20

11476600 BULL CREEK NEAR WEOTT, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	---	11.0	8.0	---	9.0	---	---	---	27.0	---	---
2	---	19.0	10.0	7.0	---	11.5	---	---	19.0	---	---	---
3	---	---	11.0	8.0	---	14.0	---	10.0	---	---	29.5	---
4	17.0	16.0	12.0	7.0	---	13.0	17.0	12.0	---	21.0	---	---
5	---	---	---	6.0	---	9.0	---	14.0	---	---	23.5	24.0
6	---	---	11.0	6.0	---	---	15.0	15.0	29.0	---	17.0	27.0
7	---	---	---	5.0	---	---	---	---	20.0	22.0	---	---
8	---	14.0	12.0	6.0	11.5	13.5	16.0	23.0	---	---	24.0	---
9	---	---	---	6.5	15.0	9.5	10.0	13.0	24.0	---	---	---
10	---	16.0	---	6.5	---	13.0	---	14.0	---	---	29.5	---
11	19.0	14.0	11.0	9.0	17.0	12.0	---	---	28.0	14.0	---	---
12	14.0	---	---	10.0	---	11.5	21.5	17.0	---	---	27.0	---
13	---	13.0	9.0	8.0	10.5	12.0	9.0	---	---	26.0	---	---
14	15.0	13.5	9.0	---	---	8.0	---	---	---	24.0	---	20.0
15	---	15.0	9.5	---	---	5.0	21.0	---	26.0	14.5	25.0	---
16	17.0	---	---	---	---	9.0	---	16.0	27.0	---	---	13.0
17	---	17.0	10.0	---	17.0	13.0	---	---	---	---	24.0	14.0
18	---	15.0	---	---	---	10.0	15.5	14.0	---	16.0	---	19.0
19	15.0	16.0	9.0	---	15.0	11.0	---	---	---	25.5	26.0	17.5
20	---	14.0	7.0	---	10.0	12.0	---	25.0	---	---	---	17.0
21	17.0	16.0	7.0	---	11.5	---	15.5	12.0	26.0	---	---	19.0
22	---	15.0	8.0	---	8.0	---	---	---	---	15.5	24.0	---
23	---	14.0	9.0	---	8.0	13.0	---	---	27.5	---	---	12.0
24	12.0	13.0	9.5	---	7.0	8.0	---	---	24.0	---	20.0	16.0
25	---	13.0	9.0	---	10.0	15.0	13.0	---	---	---	21.0	11.0
26	15.0	10.0	8.0	---	---	---	---	15.0	---	22.0	---	---
27	---	10.0	---	---	---	---	---	18.0	---	---	22.0	17.0
28	15.0	11.0	8.0	---	9.5	---	8.0	---	24.0	---	---	18.0
29	---	8.5	10.0	---	---	11.0	---	---	---	27.5	---	---
30	---	9.0	6.0	---	---	---	---	---	23.0	---	---	18.0
31	---	---	8.0	---	---	13.0	---	24.0	---	25.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.1	1	.01	2.3	3	.02	3.9	4	.04
2	2.1	1	.01	2.3	5	.03	3.9	5	.05
3	2.1	2	.01	2.3	3	.02	3.9	30	.36
4	2.1	2	.01	2.3	1	.01	3.4	19	.17
5	2.1	3	.02	2.3	1	.01	3.2	7	.06
6	2.1	3	.02	2.3	1	.01	3.9	201	3.1
7	2.1	3	.02	2.3	2	.01	3.7	282	2.8
8	1.9	3	.02	2.3	2	.01	3.7	80	.80
9	1.9	2	.01	2.3	2	.01	3.7	15	.15
10	1.9	2	.01	2.5	2	.01	3.7	10	.10
11	1.9	2	.01	12	38	1.4	3.7	6	.06
12	1.9	2	.01	7.8	18	.38	3.7	6	.06
13	1.9	2	.01	9.8	236	11	3.7	6	.06
14	1.9	2	.01	25	115	8.9	3.7	5	.05
15	1.7	2	.01	16	24	1.0	3.7	4	.04
16	1.7	2	.01	10	20	.54	3.7	3	.03
17	1.7	2	.01	7.9	18	.38	3.7	2	.02
18	1.5	2	.01	7.2	30	.56	3.7	2	.02
19	1.5	2	.01	6.9	23	.43	3.4	3	.03
20	1.5	2	.01	6.0	16	.26	3.4	6	.06
21	1.5	2	.01	5.1	12	.17	3.4	2	.02
22	1.5	2	.01	5.7	9	.14	3.4	2	.02
23	1.5	2	.01	5.4	7	.10	3.4	2	.02
24	2.0	6	.03	5.4	6	.09	3.4	1	.01
25	2.8	7	.05	4.8	9	.12	3.4	2	.02
26	2.7	7	.05	4.8	4	.05	3.4	2	.02
27	2.4	3	.02	4.5	3	.04	3.2	1	.01
28	2.3	1	.01	4.5	2	.02	3.2	1	.01
29	2.3	1	.01	4.2	4	.05	3.4	8	.08
30	2.3	2	.01	3.9	10	.11	5.4	21	.30
31	2.3	2	.01	---	---	---	4.8	3	.04
TOTAL	61.2	---	.46	180.1	---	25.88	113.8	---	8.61

11476600 BULL CREEK NEAR WEOTT, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	JANUARY MEAN DISCHARGE (CFS)	JANUARY MEAN CONCEN-TRATION (MG/L)	JANUARY SEDIMENT DISCHARGE (TONS/DAY)	FEBRUARY MEAN DISCHARGE (CFS)	FEBRUARY MEAN CONCEN-TRATION (MG/L)	FEBRUARY SEDIMENT DISCHARGE (TONS/DAY)	MARCH MEAN DISCHARGE (CFS)	MARCH MEAN CONCEN-TRATION (MG/L)	MARCH SEDIMENT DISCHARGE (TONS/DAY)
1	4.8	5	.07	5.7	2	.03	19	14	.72
2	35	956	127	5.1	2	.03	17	9	.41
3	49	287	50	5.1	2	.03	23	40	2.5
4	22	23	1.4	5.1	2	.03	21	10	.57
5	14	8	.30	5.1	2	.03	18	7	.34
6	11	4	.12	5.1	2	.03	17	5	.23
7	8.0	7	.15	5.1	2	.03	21	52	4.0
8	6.9	4	.07	18	48	3.5	32	44	3.9
9	6.3	2	.03	18	15	.73	93	476	150
10	6.3	5	.09	13	3	.11	58	70	11
11	7.3	12	.31	11	2	.06	46	45	5.6
12	13	17	.69	11	3	.09	50	86	12
13	11	2	.06	9.8	3	.08	44	27	3.2
14	9.8	2	.05	9.1	3	.07	38	23	2.4
15	9.4	2	.05	11	3	.09	65	200	39
16	8.7	2	.05	8.7	3	.07	65	100	18
17	8.3	2	.04	8.7	3	.07	55	53	7.9
18	8.0	2	.04	8.7	2	.05	47	38	4.8
19	7.6	2	.04	8.3	2	.04	43	28	3.3
20	7.6	2	.04	12	21	.86	38	19	1.9
21	7.6	2	.04	37	711	102	36	15	1.5
22	7.2	2	.04	24	33	2.1	34	12	1.1
23	7.2	2	.04	31	106	10	36	40	3.9
24	6.9	2	.04	31	32	2.7	43	97	13
25	6.6	2	.04	25	29	2.0	41	63	7.8
26	6.6	2	.04	20	25	1.4	38	16	1.6
27	6.3	2	.03	17	22	1.0	37	14	1.4
28	6.3	2	.03	19	25	1.3	35	12	1.1
29	6.3	2	.03	---	---	---	32	10	.86
30	6.0	2	.03	---	---	---	33	12	1.1
31	6.0	2	.03	---	---	---	31	16	1.3
TOTAL	327.0	---	180.99	387.6	---	128.53	1206	---	306.43

DAY	APRIL MEAN DISCHARGE (CFS)	APRIL MEAN CONCEN-TRATION (MG/L)	APRIL SEDIMENT DISCHARGE (TONS/DAY)	MAY MEAN DISCHARGE (CFS)	MAY MEAN CONCEN-TRATION (MG/L)	MAY SEDIMENT DISCHARGE (TONS/DAY)	JUNE MEAN DISCHARGE (CFS)	JUNE MEAN CONCEN-TRATION (MG/L)	JUNE SEDIMENT DISCHARGE (TONS/DAY)
1	24	8	.52	13	1	.04	7.0	3	.06
2	21	7	.40	18	3	.15	7.0	3	.06
3	20	6	.32	24	17	1.1	6.6	2	.04
4	18	4	.19	20	2	.11	6.6	3	.05
5	18	3	.15	18	2	.10	6.6	4	.07
6	16	3	.13	17	2	.09	6.3	5	.09
7	16	6	.26	16	3	.13	5.7	5	.08
8	20	17	.92	15	4	.16	5.7	4	.06
9	16	4	.17	14	2	.08	5.7	4	.06
10	15	4	.16	14	6	.23	5.7	5	.08
11	14	4	.15	13	2	.07	5.7	9	.14
12	14	4	.15	13	1	.04	5.7	5	.08
13	14	5	.19	12	1	.03	5.7	4	.06
14	13	3	.11	12	2	.06	5.7	5	.08
15	12	2	.06	11	2	.06	5.1	5	.07
16	12	2	.06	11	4	.12	4.6	4	.05
17	11	1	.03	11	3	.09	4.3	4	.05
18	11	1	.03	11	3	.09	4.3	5	.06
19	9.6	1	.03	12	2	.06	4.3	5	.06
20	9.6	1	.03	11	2	.06	4.1	4	.04
21	9.2	1	.02	10	3	.08	3.8	4	.04
22	9.6	1	.03	8.4	3	.07	3.6	4	.04
23	8.8	1	.02	8.0	3	.06	3.6	4	.04
24	8.4	1	.02	8.8	2	.05	3.6	5	.05
25	14	1	.04	8.4	2	.05	3.4	5	.05
26	12	1	.03	10	2	.05	3.2	4	.03
27	10	1	.03	9.6	3	.08	3.0	4	.03
28	11	1	.03	8.8	2	.05	3.0	4	.03
29	11	1	.03	8.4	2	.05	2.8	4	.03
30	12	1	.03	7.6	3	.06	2.8	4	.03
31	---	---	---	7.6	3	.06	---	---	---
TOTAL	410.2	---	4.34	381.6	---	3.53	145.2	---	1.71

11476600 BULL CREEK NEAR WEOTT, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	3.0	3	.02	.91	2	0	.65	3	.01
2	2.8	3	.02	.91	2	0	.65	3	.01
3	2.4	3	.02	.82	2	0	.73	5	.01
4	2.6	3	.02	.91	2	0	.57	4	.01
5	2.6	4	.03	.91	2	0	.50	4	.01
6	2.6	4	.03	.91	1	0	.50	2	0
7	2.4	4	.03	.91	2	0	.44	2	0
8	2.3	3	.02	.82	5	.01	.50	2	0
9	2.1	3	.02	.73	3	.01	.44	2	0
10	1.9	2	.01	.73	2	0	.44	3	0
11	1.9	2	.01	.73	2	0	.44	3	0
12	1.9	3	.02	.65	2	0	.39	2	0
13	1.8	5	.02	.65	2	0	.39	2	0
14	1.8	3	.01	.65	2	0	.39	2	0
15	1.8	2	.01	.57	2	0	.39	2	0
16	1.8	2	.01	.57	2	0	.73	5	.02
17	1.8	2	.01	.57	2	0	7.6	37	.81
18	1.8	2	.01	.65	2	0	21	124	10
19	1.6	2	.01	.65	1	0	61	490	127
20	1.6	2	.01	.57	1	0	47	247	49
21	1.6	3	.01	.65	1	0	16	20	.86
22	1.6	3	.01	.50	1	0	10	14	.38
23	1.4	3	.01	.50	1	0	7.6	8	.16
24	1.4	3	.01	.50	1	0	6.6	4	.07
25	1.4	5	.02	.87	4	.01	6.0	2	.03
26	1.2	6	.02	1.0	3	.01	5.7	2	.03
27	1.1	4	.01	.91	3	.01	5.7	4	.06
28	1.1	4	.01	.82	3	.01	18	30	1.6
29	1.1	3	.01	.73	2	0	21	23	1.4
30	.91	2	0	.65	3	.01	14	8	.30
31	.91	2	0	.65	2	0	---	---	---
TOTAL	56.22	---	.45	22.60	---	.07	255.35	---	191.77
YEAR	3546.87		852.77						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
NOV									
13...	2210	13.0	25	1020	69	26	36	57	82
DEC									
03...	1705	11.0	5.4	126	1.8	--	--	--	--
06...	1725	11.0	3.9	464	4.9	60	83	95	100
JAN									
02...	1345	7.0	67	3040	550	24	36	53	71
FEB									
08...	1300	10.5	21	74	4.2	--	--	--	--
21...	0800	10.0	67	2390	432	41	57	75	89
23...	1010	7.5	37	248	25	--	--	--	--
MAR									
09...	0715	9.0	125	1120	378	26	38	54	71
09...	1010	9.5	105	544	154	23	39	57	75
24...	1010	8.0	54	224	33	--	--	--	--
SEP									
18...	0845	16.0	37	295	29	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV									
13...	97	--	100	--	--	--	--	--	--
DEC									
03...	--	--	99	--	100	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
JAN									
02...	89	99	--	100	--	--	--	--	--
FEB									
08...	--	--	98	--	100	--	--	--	--
21...	96	99	--	100	--	--	--	--	--
23...	--	--	99	--	100	--	--	--	--
MAR									
09...	83	--	92	--	97	98	99	99	100
09...	88	--	95	--	99	100	--	--	--
24...	--	--	98	--	100	--	--	--	--
SEP									
18...	--	--	98	--	99	100	--	--	--

11477000 EEL RIVER AT SCOTIA, CA

LOCATION.--Lat 40°29'30", long 124°05'55", in SW¼ sec.5, T.1 N., R.1 E., Humboldt County, near center of span in left pier of bridge on U.S. Highway 101, 0.5 mi (0.8 km) north of Scotia, and 6 mi (10 km) upstream from Van Duzen River.

DRAINAGE AREA.--3,113 mi^2 (8,063 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to current year. Monthly discharge only for some periods and yearly estimates for 1915-16, published in WSP 1315-B.

REVISED RECORDS.--WSP 931: 1938. WSP 1315-B: 1914-15(M), 1917(M), 1927-28(M), 1936(M), 1939(M). WSP 1345: Drainage area. WSP 1715: 1959.

GAGE.--Water-stage recorder. Datum of gage is 35.50 ft (10.820 m) above mean sea level. Prior to Dec. 12, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow slightly regulated by Lake Pillsbury (station 11470000) 138 mi (222 km) upstream and by diversion through Potter Valley powerhouse (station 11471000).

AVERAGE DISCHARGE.--67 years, 7,272 ft^3/s (205.9 m^3/s), 5,269,000 acre-ft/yr (6.50 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 752,000 ft^3/s (21,300 m^3/s) Dec. 23, 1964, gage height, 72.0 ft (21.95 m) from floodmarks, from rating curve extended above 220,000 ft^3/s (6,230 m^3/s) on basis of maximum flow at upstream stations; minimum observed, 10 ft^3/s (0.28 m^3/s) Aug. 12-14, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,790 ft^3/s (164 m^3/s) Mar. 10, gage height, 12.71 ft (3.874 m), no peak above base of 72,000 ft^3/s (2,040 m^3/s); minimum daily, 25 ft^3/s (0.71 m^3/s) Aug. 18-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	112	187	182	268	1520	1500	463	490	110	40	35
2	120	112	181	304	263	1580	1330	483	450	104	38	36
3	124	114	177	1580	257	1600	1200	538	425	96	38	36
4	137	114	173	2870	248	1510	1100	696	401	94	36	36
5	134	114	175	2060	244	1260	1030	761	375	92	35	35
6	127	114	175	1250	239	1070	1030	771	355	91	33	34
7	124	114	175	854	236	949	1200	739	333	88	33	33
8	120	113	171	652	260	1100	1300	677	318	81	32	31
9	120	112	179	529	364	2690	1390	642	303	76	30	31
10	117	119	179	454	632	5280	1350	617	294	75	30	30
11	114	169	179	439	774	3930	1160	639	283	75	29	30
12	114	200	179	538	713	2810	986	697	277	69	29	30
13	114	215	177	709	603	2750	874	788	277	67	27	30
14	114	320	171	865	520	2630	821	844	266	66	27	30
15	117	466	169	845	461	2640	794	788	253	63	27	30
16	114	630	167	701	420	4000	765	723	237	61	27	33
17	111	756	165	593	390	4560	717	660	227	60	26	39
18	105	696	163	508	360	4150	688	628	214	59	25	89
19	105	518	163	452	343	3410	682	612	205	56	25	268
20	102	404	159	415	360	2740	632	592	196	53	25	463
21	99	332	159	382	699	2320	585	572	183	52	25	489
22	96	286	159	367	2890	2030	534	559	172	50	26	362
23	93	261	158	355	4040	1870	508	530	162	49	26	428
24	99	240	155	349	3310	2450	489	506	158	49	27	371
25	99	222	155	349	2900	3730	483	488	153	47	30	287
26	102	208	152	342	2110	3860	481	483	142	47	30	229
27	102	204	152	326	1590	3300	462	500	132	45	31	203
28	102	197	152	308	1350	2740	455	524	126	45	33	250
29	105	188	158	294	---	2380	455	608	118	43	35	744
30	105	187	167	281	---	2010	452	624	113	41	33	878
31	108	---	168	273	---	1720	---	550	---	40	35	---
TOTAL	3460	7837	5199	20426	26844	80589	25453	19302	7638	2044	943	5620
MEAN	112	261	168	659	959	2600	848	623	255	65.9	30.4	187
MAX	137	756	187	2870	4040	5280	1500	844	490	110	40	878
MIN	93	112	152	182	236	949	452	463	113	40	25	30
AC-FT	6860	15540	10310	40510	53250	159800	50490	38290	15150	4050	1870	11150

CAL YR 1976 TOTAL 1054823 MEAN 2882 MAX 98000 MIN 93 AC-FT 2092000
WTR YR 1977 TOTAL 205355 MEAN 563 MAX 5280 MIN 25 AC-FT 407300

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.
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.--
WATER TEMPERATURES: October 1957 to current year.
SEDIMENT RECORDS: October 1957 to current year.

INSTRUMENTATION.--Temperature recorder since November 1960.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 26.0°C Sept. 4, 1977; 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 on many days in 1958-64, 1966-67, 1970, 1972-77.
SEDIMENT DISCHARGE: Maximum daily, 57,000,000 tons (51,700,000 tonnes), estimated, Dec. 23, 1964; minimum daily, 0.07 ton (0.06 tonne) Aug. 13, 17-20.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 26.0°C Sept. 4; minimum, 5.5°C Jan. 7, 9.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 271 mg/L Mar. 10; minimum daily mean, 1 mg/L on many days.
SEDIMENT DISCHARGE: Maximum daily, 3,890 tons (3,530 tonnes) Mar. 10; minimum daily, 0.07 ton (0.06 tonne) Aug. 13, 17-20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM
AUG 03...	1110	38	305	8.3	20.5	9.3	150	7	39	12	11	14

DATE	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
AUG 03...	.4	1.5	170	0	140	21	6.0	.1	10	185	.25	19.0

DATE	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO, PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
AUG 03...	.01	.00	.01	.00	.11	.11	.01	.00	.00	2	1	1

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
AUG 03...	7	170	<10	<10	0	<1	0	10	0	<50	<50	0

DATE	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)
AUG 03...	5	<10	<9	1	13	10	<100	<99	1	10	.0	.0

DATE	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ALDRIN (UG/L)
AUG 03...	.0	.0	10	6	4	14	1.6	.00	.0	0	.00

11477000 EEL RIVER AT SCOTIA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)	DIAZINON IN BOTTOM MATERIAL (UG/KG)
AUG 03...	.0	.0	0	.00	.0	.00	.0	.00	.0	.00	.0

DATE	TOTAL DIELDRIN (UG/L)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	TOTAL LINDANE (UG/L)
AUG 03...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	MALATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL TRITHION (UG/L)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL MIREX (UG/L)	TOTAL PARATHION (UG/L)	PARATHION IN BOTTOM MATERIAL (UG/KG)
AUG 03...	.0	.00	.0	.00	.0	.00	.0	.00	.00	.0

DATE	TOTAL TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	2,4-D IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MATERIAL (UG/KG)
AUG 03...	0	0	.00	.0	.00	0	.00	0	.00	0

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	19.5	17.5	14.0	9.0	8.0	8.5	8.5	11.5	10.0	11.5	10.5
2	21.0	18.5	18.0	15.0	9.5	8.0	8.5	8.0	10.5	9.0	10.5	10.0
3	20.5	16.5	17.5	15.5	9.0	8.0	8.0	7.5	10.0	9.0	11.0	9.5
4	20.5	15.5	17.5	15.0	10.0	9.0	7.5	7.0	10.5	9.0	11.5	9.5
5	20.5	14.5	16.0	14.5	9.5	8.5	7.0	6.5	10.5	10.0	12.0	9.5
6	21.0	15.0	16.5	15.0	10.0	8.5	7.0	6.0	12.0	10.5	11.5	10.0
7	21.5	17.0	16.5	14.5	10.0	8.5	6.5	5.5	11.5	10.5	11.0	10.5
8	22.0	17.0	15.0	13.5	10.0	9.0	7.0	6.0	11.5	11.0	11.5	11.0
9	21.0	16.5	15.0	13.5	9.5	8.5	7.0	5.5	12.5	11.5	11.5	10.5
10	20.5	16.5	15.0	14.5	9.0	8.0	8.0	7.0	12.5	11.5	11.0	9.5
11	21.0	16.5	15.0	14.5	9.0	7.5	8.0	7.5	13.5	12.5	9.5	9.0
12	20.0	14.5	14.5	14.5	8.5	7.0	8.5	8.0	13.0	12.5	9.5	9.5
13	20.0	14.5	14.5	14.0	8.5	7.0	9.0	8.5	13.0	12.5	9.5	9.0
14	19.5	14.5	14.0	14.0	8.5	7.0	9.5	9.0	13.5	12.5	9.5	8.5
15	19.5	15.0	14.5	14.0	8.5	7.0	9.5	9.0	14.0	12.5	9.0	8.5
16	19.5	14.5	15.5	14.5	9.0	7.5	9.5	8.5	13.5	12.5	9.0	8.0
17	19.0	13.5	15.5	15.5	8.5	7.5	9.5	8.5	13.5	12.5	9.5	8.5
18	19.0	14.0	16.0	15.5	9.0	7.5	9.5	8.5	14.0	11.5	10.0	9.0
19	18.5	14.5	15.5	15.0	8.0	6.5	9.5	8.5	14.0	12.5	10.5	9.5
20	17.0	14.5	15.0	14.0	8.0	6.5	9.5	9.0	13.0	12.5	12.5	10.5
21	17.0	14.5	15.5	15.0	7.5	6.5	10.0	9.5	13.0	12.0	13.0	11.5
22	17.0	14.0	15.0	14.0	8.0	7.0	11.5	9.5	12.0	11.0	13.0	12.5
23	17.0	13.0	14.0	13.5	9.0	7.5	12.0	10.0	11.5	10.5	13.0	12.5
24	15.5	13.0	14.0	13.5	8.5	7.0	11.5	9.5	11.0	10.0	12.5	11.0
25	17.0	13.0	13.5	12.5	8.5	8.0	11.5	9.5	10.5	10.0	11.5	10.5
26	17.0	13.5	12.5	11.0	8.5	7.5	10.0	9.0	11.0	10.0	12.0	10.5
27	16.5	12.0	11.0	9.0	9.5	8.0	10.0	8.5	12.0	10.5	11.5	11.0
28	15.0	13.0	9.5	8.5	8.5	7.0	10.0	8.5	12.0	11.5	12.0	10.5
29	15.5	13.0	9.0	7.5	9.0	8.0	10.0	8.5	---	---	11.5	10.5
30	16.5	14.0	9.0	7.5	9.5	8.0	10.0	9.0	---	---	11.5	10.5
31	16.0	13.5	---	---	8.5	7.5	11.0	10.0	---	---	12.5	10.5
MONTH	22.0	12.0	18.0	7.5	10.0	6.5	12.0	5.5	14.0	9.0	13.0	8.0

11477000 EEL RIVER AT SCOTIA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.5	16.5	16.0	19.0	17.0	20.0	18.0	22.5	20.0	23.0	20.0
2	12.5	11.0	18.0	16.0	18.5	16.0	20.5	18.0	24.0	21.0	24.0	20.0
3	14.5	11.5	17.5	16.0	17.5	16.0	20.5	17.5	22.0	20.0	24.5	19.5
4	15.0	13.0	16.5	15.5	19.5	17.5	20.0	17.5	22.0	20.0	26.0	23.0
5	15.5	14.0	16.0	15.5	21.5	19.5	20.0	17.0	21.0	18.5	25.0	23.0
6	16.0	14.0	16.0	14.5	21.0	18.5	21.0	17.5	20.5	18.0	25.0	21.5
7	16.5	14.5	15.5	14.0	20.0	16.5	21.5	18.0	21.0	18.0	24.0	21.0
8	15.5	14.5	16.5	14.0	17.0	16.0	21.5	18.5	21.0	18.0	24.0	20.5
9	15.0	13.5	16.0	14.5	17.5	15.5	20.0	17.5	22.0	18.0	23.5	21.0
10	15.0	12.5	15.0	14.5	17.0	16.0	21.0	17.5	22.5	18.5	23.5	21.0
11	14.5	13.0	14.5	14.0	16.0	16.0	22.0	18.0	22.5	20.0	24.0	20.5
12	15.0	12.5	16.0	13.5	16.5	15.0	21.0	19.0	22.5	19.5	23.5	20.5
13	14.5	13.5	16.5	14.5	18.0	15.5	22.0	18.5	20.5	19.5	21.0	20.5
14	14.5	12.5	16.5	15.5	19.5	17.0	22.5	19.0	21.5	18.5	22.5	20.0
15	15.5	13.0	16.0	14.5	19.5	17.5	23.0	19.0	21.5	18.5	21.0	19.0
16	15.0	13.5	15.5	14.0	19.5	17.5	23.0	19.5	21.0	18.5	20.5	18.5
17	15.0	12.5	16.5	14.0	19.0	17.5	23.0	18.5	21.0	18.5	20.0	19.0
18	15.0	12.5	15.0	14.0	18.5	16.5	23.5	19.0	22.0	20.0	19.5	19.0
19	16.0	13.0	17.5	14.5	16.5	15.5	24.0	19.5	22.0	20.0	21.5	20.0
20	16.0	13.5	18.5	15.5	17.0	15.5	23.5	20.0	20.0	19.0	22.5	21.0
21	16.5	14.0	17.5	15.5	20.0	16.0	23.5	18.5	21.0	19.0	22.0	20.5
22	15.5	13.5	15.5	14.5	20.5	18.5	---	---	21.5	19.0	22.0	20.0
23	16.5	14.0	15.5	14.0	20.5	18.0	---	---	23.0	19.0	21.0	20.0
24	16.5	14.5	18.0	15.0	21.0	18.0	---	---	23.0	20.0	22.0	20.0
25	16.0	15.0	17.0	16.0	20.0	18.0	---	---	21.5	19.5	22.0	20.0
26	17.5	14.0	16.0	15.0	19.5	16.0	21.0	18.0	23.5	19.5	22.5	21.0
27	17.5	14.5	17.5	14.0	21.0	18.0	21.5	19.0	23.5	19.5	22.0	21.0
28	16.5	15.0	18.0	15.0	22.0	17.5	23.5	20.0	24.0	19.5	22.5	21.0
29	16.0	15.0	18.5	15.5	22.0	19.0	24.0	19.5	23.5	21.0	22.5	20.5
30	16.5	15.5	18.5	16.0	20.0	18.5	24.0	19.0	22.5	20.5	20.5	19.5
31	---	---	20.0	16.5	---	---	24.5	19.5	23.5	20.5	---	---
MONTH	17.5	11.0	20.0	13.5	22.0	15.0	24.5	17.0	24.0	18.0	26.0	18.5

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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	117	1	.32	112	3	.91	187	1	.50
2	120	1	.32	112	2	.60	181	1	.49
3	124	1	.33	114	1	.31	177	1	.48
4	137	1	.37	114	1	.31	173	1	.47
5	134	1	.36	114	1	.31	175	1	.47
6	127	1	.34	114	1	.31	175	1	.47
7	124	2	.67	114	2	.62	175	1	.47
8	120	2	.65	113	2	.61	171	1	.46
9	120	2	.65	112	2	.60	179	1	.48
10	117	2	.63	119	3	.96	179	1	.48
11	114	2	.62	169	3	1.4	179	1	.48
12	114	2	.62	200	3	1.6	179	1	.48
13	114	2	.62	215	3	1.7	177	1	.48
14	114	2	.62	320	4	3.5	171	1	.46
15	117	1	.32	466	2	2.5	169	1	.46
16	114	1	.31	630	4	6.8	167	1	.45
17	111	1	.30	756	5	10	165	1	.45
18	105	1	.28	696	2	3.8	163	1	.44
19	105	1	.28	518	3	4.2	163	1	.44
20	102	1	.28	404	2	2.2	159	2	.86
21	99	1	.27	332	2	1.8	159	1	.43
22	96	1	.26	286	2	1.5	159	1	.43
23	93	1	.25	261	2	1.4	158	1	.43
24	99	1	.27	240	2	1.3	155	1	.42
25	99	1	.27	222	1	.60	155	1	.42
26	102	2	.55	208	1	.56	152	1	.41
27	102	2	.55	204	1	.55	152	1	.41
28	102	1	.28	197	1	.53	152	1	.41
29	105	1	.28	188	2	1.0	158	4	1.7
30	105	1	.28	187	1	.50	167	3	1.4
31	108	1	.29	---	---	---	168	2	.91
TOTAL	3460	---	12.44	7837	---	52.98	5199	---	17.14

11477000 EEL RIVER AT SCOTIA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	JANUARY			FEBRUARY			MARCH		
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	182	2	.98	268	2	1.4	1520	20	82
2	304	5	4.1	263	2	1.4	1580	16	68
3	1580	47	246	257	2	1.4	1600	11	48
4	2870	96	751	248	2	1.3	1510	8	33
5	2060	55	306	244	2	1.3	1260	6	20
6	1250	25	84	239	2	1.3	1070	4	12
7	854	13	30	236	2	1.3	949	3	7.7
8	652	8	14	260	2	1.4	1100	2	5.9
9	529	5	7.1	364	2	2.0	2690	80	753
10	454	3	3.7	632	5	8.5	5280	271	3890
11	439	3	3.6	774	6	13	3930	105	1110
12	538	4	5.8	713	5	9.6	2810	44	334
13	709	7	13	603	3	4.9	2750	32	238
14	865	9	21	520	2	2.8	2630	27	192
15	845	8	18	461	2	2.5	2640	28	207
16	701	6	11	420	2	2.3	4000	78	851
17	593	5	8.0	390	1	1.1	4560	129	1600
18	508	3	4.1	360	1	.97	4150	77	863
19	452	2	2.4	343	1	.93	3410	47	433
20	415	2	2.2	360	2	1.9	2740	25	185
21	382	2	2.1	699	21	60	2320	19	119
22	367	2	2.0	2890	137	1220	2030	13	71
23	355	1	.96	4040	150	1640	1870	9	45
24	349	1	.94	3310	82	733	2450	20	140
25	349	1	.94	2900	38	298	3730	66	669
26	342	1	.92	2110	20	114	3860	58	607
27	326	1	.88	1590	12	52	3300	28	249
28	308	1	.83	1350	10	36	2740	19	141
29	294	1	.79	---	---	---	2380	12	77
30	281	1	.76	---	---	---	2010	8	43
31	273	2	1.5	---	---	---	1720	6	28
TOTAL	20426	---	1548.60	26844	---	4214.30	80589	---	13121.6

	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	1500	5	20	463	1	1.3	490	3	4.0
2	1330	4	14	483	2	2.6	450	3	3.6
3	1200	4	13	538	2	2.9	425	2	2.3
4	1100	3	8.9	696	2	3.8	401	2	2.2
5	1030	3	8.3	761	2	4.1	375	2	2.0
6	1030	3	8.3	771	2	4.2	355	2	1.9
7	1200	4	13	739	2	4.0	333	2	1.8
8	1300	4	14	677	2	3.7	318	2	1.7
9	1390	5	19	642	2	3.5	303	2	1.6
10	1350	5	18	617	3	5.0	294	2	1.6
11	1160	3	9.4	639	5	8.6	283	2	1.5
12	986	3	8.0	697	6	11	277	2	1.5
13	874	2	4.7	788	4	8.5	277	2	1.5
14	821	2	4.4	844	6	14	266	2	1.4
15	794	2	4.3	788	4	8.5	253	2	1.4
16	765	2	4.1	723	3	5.9	237	2	1.3
17	717	2	3.9	660	3	5.3	227	2	1.2
18	688	3	5.6	628	3	5.1	214	2	1.2
19	682	3	5.5	612	3	5.0	205	2	1.1
20	632	3	5.1	592	3	4.8	196	2	1.1
21	585	2	3.2	572	3	4.6	183	2	.99
22	534	2	2.9	559	3	4.5	172	2	.93
23	508	2	2.7	530	3	4.3	162	2	.87
24	489	2	2.6	506	4	5.5	158	2	.85
25	483	1	1.3	488	4	5.3	153	3	1.2
26	481	1	1.3	483	5	6.5	142	2	.77
27	462	1	1.2	500	4	5.4	132	3	1.1
28	455	1	1.2	524	3	4.2	126	2	.68
29	455	1	1.2	608	3	4.9	118	1	.32
30	452	1	1.2	624	4	6.7	113	1	.31
31	---	---	---	550	4	5.9	---	---	---
TOTAL	25453	---	210.3	19302	---	169.6	7638	---	43.92

11477000 EEL RIVER AT SCOTIA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	110	1	.30	40	1	.11	35	2	.19
2	104	1	.28	38	1	.10	36	2	.19
3	96	1	.26	38	1	.10	36	2	.19
4	94	2	.51	36	1	.10	36	2	.19
5	92	2	.50	35	2	.19	35	2	.19
6	91	2	.49	33	1	.09	34	1	.09
7	88	3	.71	33	1	.09	33	1	.09
8	81	2	.44	32	1	.09	31	1	.08
9	76	1	.21	30	1	.08	31	1	.08
10	75	1	.20	30	1	.08	30	1	.08
11	75	1	.20	29	1	.08	30	1	.08
12	69	1	.19	29	1	.08	30	1	.08
13	67	1	.18	27	1	.07	30	1	.08
14	66	2	.36	27	2	.15	30	1	.08
15	63	2	.34	27	2	.15	30	1	.08
16	61	2	.33	27	2	.15	33	1	.09
17	60	2	.32	26	1	.07	39	1	.11
18	59	1	.16	25	1	.07	89	4	.96
19	56	1	.15	25	1	.07	268	20	14
20	53	1	.14	25	1	.07	463	10	13
21	52	1	.14	25	2	.14	489	8	11
22	50	1	.14	26	2	.14	362	5	4.9
23	49	1	.13	26	2	.14	428	5	5.8
24	49	1	.13	27	2	.15	371	3	3.0
25	47	1	.13	30	2	.16	287	2	1.5
26	47	1	.13	30	1	.08	229	1	.62
27	45	1	.12	31	1	.08	203	1	.55
28	45	1	.12	33	1	.09	250	4	4.6
29	43	1	.12	35	1	.09	744	170	341
30	41	1	.11	33	2	.18	878	71	168
31	40	1	.11	35	2	.19	---	---	---
TOTAL	2044	---	7.65	943	---	3.43	5620	---	570.90
YEAR	205355.0		19972.86						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
JAN							
03...	1715	7.5	1930	56	292	--	--
FEB							
22...	1810	11.5	4360	179	2110	--	--
23...	1725	10.5	3670	142	1410	--	--
24...	1750	10.0	3110	63	529	--	--
MAR							
10...	1650	11.0	5670	307	4700	37	46
16...	1245	9.0	4010	64	693	--	--
SEP							
29...	1740	--	739	154	307	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
JAN							
03...	--	--	--	97	100	--	--
FEB							
22...	--	--	--	91	97	98	100
23...	--	--	--	86	94	98	100
24...	--	--	--	96	100	--	--
MAR							
10...	62	74	80	84	90	97	100
16...	--	--	--	75	81	94	100
SEP							
29...	--	--	--	99	100	--	--

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, on left bank at downstream side of bridge on State Highway 36, 0.9 mi (1.4 km) upstream from Grizzly Creek, and 5 mi (8 km) west of Bridgeville.

DRAINAGE AREA.--222 mi^2 (575 km^2).

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) above mean sea level. Prior to Oct. 1, 1965, at site 2.4 mi (3.9 km) upstream at different datum.

REMARKS.--Records good including those for period of no gage-height record Jan. 14 to Feb. 16. No storage or large diversion above station.

AVERAGE DISCHARGE.--27 years, 890 ft^3/s (25.20 m^3/s), 644,800 acre-ft/yr (795 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft^3/s (1,380 m^3/s) Dec. 22, 1964, gage height, 24.0 ft (7.32 m) from floodmarks, present site and datum, from rating curve extended above 20,000 ft^3/s (566 m^3/s) on basis of slope-area measurement at gage height 21.3 ft (6.49 m), former site and datum; minimum, 4.6 ft^3/s (0.13 m^3/s) Aug. 8, 13-24, Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,140 ft^3/s (60.6 m^3/s) Mar. 9, gage height, 7.11 ft (2.167 m), no peak above base of 15,000 ft^3/s (425 m^3/s); minimum daily, 4.6 ft^3/s (0.13 m^3/s) Aug. 8, 13-24, Sept. 9-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	20	24	54	456	202	81	72	20	7.0	6.1
2	12	12	19	97	53	344	190	111	69	19	7.0	6.1
3	13	12	19	311	50	468	178	142	66	18	7.0	6.1
4	13	12	19	205	50	359	170	233	60	17	5.3	6.1
5	13	12	19	127	48	271	187	178	58	16	5.3	6.1
6	13	12	18	95	50	229	199	165	55	16	5.3	6.1
7	12	12	18	75	50	202	190	157	54	16	5.3	6.1
8	11	12	18	63	55	306	209	147	51	15	4.6	6.1
9	11	12	19	55	79	1410	236	132	48	15	5.3	4.6
10	9.7	12	20	60	70	917	190	127	48	14	5.3	4.6
11	9.7	20	20	103	62	606	165	167	48	14	5.3	4.6
12	9.7	24	20	284	55	666	150	202	47	14	5.3	4.6
13	9.7	24	19	215	50	613	142	175	45	14	4.6	4.6
14	9.7	49	19	167	50	486	135	150	43	14	4.6	4.6
15	8.8	111	19	150	50	511	125	130	41	13	4.6	4.6
16	8.8	91	19	130	50	557	119	123	38	13	4.6	5.3
17	8.8	63	19	110	50	530	113	117	38	11	4.6	14
18	8.8	48	19	97	48	480	105	109	36	9.7	4.6	21
19	8.8	41	18	85	44	422	99	111	36	9.7	4.6	99
20	8.8	37	18	80	48	428	91	109	35	8.8	4.6	193
21	8.8	33	18	75	578	385	86	99	33	8.8	4.6	107
22	8.8	30	18	69	636	370	82	93	31	8.8	4.6	67
23	8.8	28	18	68	505	395	77	91	30	8.8	4.6	50
24	8.8	26	18	63	445	486	72	91	29	8.0	4.6	45
25	11	25	18	60	320	456	71	82	28	8.0	5.3	43
26	13	24	17	57	251	417	75	88	27	8.0	9.7	38
27	13	22	17	55	229	395	74	117	25	8.0	11	35
28	13	21	17	53	334	334	69	111	24	8.8	9.7	172
29	12	20	18	52	---	284	69	95	22	8.0	8.8	456
30	12	20	21	52	---	255	69	88	20	8.0	8.0	222
31	12	---	23	54	---	226	---	79	---	8.0	7.0	---
TOTAL	332.5	877	582	3191	4364	14264	3939	3900	1257	378.4	182.7	1648.3
MEAN	10.7	29.2	18.8	103	156	460	131	126	41.9	12.2	5.89	54.9
MAX	13	111	23	311	636	1410	236	233	72	20	11	456
MIN	8.8	12	17	24	44	202	69	79	20	8.0	4.6	4.6
AC-FT	660	1740	1150	6330	8660	28290	7810	7740	2490	751	362	3270

CAL YR 1976 TOTAL 126631.5 MEAN 346 MAX 11200 MIN 8.8 AC-FT 251200
WTR YR 1977 TOTAL 34915.9 MEAN 95.7 MAX 1410 MIN 4.6 AC-FT 69260

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 current year.
SEDIMENT RECORDS: Water years 1955-67.
TURBIDITY: Water years 1964-67.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1960 to current year.

INSTRUMENTATION.--Temperature recorder since December 1960.

COOPERATION.--The letter "A" following a date indicates chemical-quality data furnished by California Department of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 29.5°C July 1, 2, 1967; minimum recorded, 0.0°C Dec. 14, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.5°C June 28; minimum, 1.5°C Jan. 8, 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT								
05...A	1045	--	13	290	8.1	16.5	0	10.2
NOV								
09...A	0940	--	12	291	7.9	12.0	0	11.8
DEC								
07...A	1030	--	18	271	7.8	7.0	0	12.2
JAN								
05...A	1145	--	130	217	7.9	5.5	3	13.4
FEB								
02...A	1315	53	--	238	8.2	9.0	0	13.7
MAR								
08...A	1230	--	334	172	8.0	10.5	10	11.5
APR								
05...A	1045	--	184	180	8.0	13.0	2	10.8
JUN								
14...A	1100	--	44	234	8.2	20.0	0	10.2
JUL								
12...A	1000	--	14	278	7.8	17.5	1	9.4
AUG								
09...A	0945	--	5.3	281	8.0	20.0	0	9.2
15...	1115	--	4.9	298	8.1	21.0	--	9.2
SEP								
20...A	0930	--	206	243	7.9	17.0	25	9.0

DATE	TIME	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
DEC												
07...A	1030	130	17	37	8.4	7.7	12	.3	1.0	130	0	110
JAN												
05...A	1145	100	21	--	--	6.6	--	.3	--	96	0	79
FEB												
02...A	1315	110	20	--	--	6.0	--	.2	--	110	0	90
APR												
05...A	1045	82	11	--	--	3.9	--	.2	--	86	0	71
JUN												
14...A	1100	110	12	--	--	6.0	--	.3	--	120	0	98
AUG												
15...	1115	140	16	42	8.3	8.4	12	.3	1.3	150	0	120
SEP												
20...A	0930	110	20	--	--	7.3	--	.3	--	110	0	90

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
DEC											
07...	25	5.9	--	--	163	151	.22	7.92	--	0	--
JAN											
05...	--	5.4	--	--	--	--	--	--	--	100	--
FEB											
02...	--	4.5	--	--	--	--	--	--	--	100	--
APR											
05...	--	2.1	--	--	--	--	--	--	--	0	--
JUN											
14...	--	3.7	--	--	--	--	--	--	--	100	--
AUG											
15...	29	5.6	.1	8.6	--	177	.24	2.34	.00	100	10
SEP											
20...	--	4.3	--	--	--	--	--	--	--	100	--

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	18.0	17.0	12.5	8.5	5.0	6.0	5.5	---	---	7.5	6.0
2	19.5	17.5	18.0	14.5	8.5	5.0	6.0	5.0	---	---	7.5	5.5
3	21.5	17.0	16.5	13.0	8.5	5.0	5.5	4.5	---	---	8.0	6.5
4	24.5	17.0	16.5	12.0	10.0	7.5	5.0	3.5	---	---	9.0	6.0
5	23.0	17.5	15.5	11.5	10.0	8.5	5.5	3.5	---	---	10.0	6.0
6	22.0	18.0	16.0	12.0	9.5	6.5	4.5	2.0	---	---	9.5	6.5
7	22.5	17.5	15.0	11.5	9.0	6.0	4.5	2.0	---	---	9.0	8.0
8	21.5	17.5	14.5	11.0	9.5	6.5	4.0	1.5	---	---	10.0	8.5
9	21.0	16.5	15.0	11.0	9.0	7.5	4.5	1.5	---	---	9.5	6.5
10	19.0	16.5	16.0	14.0	8.5	6.5	6.0	3.5	---	---	8.0	5.5
11	21.0	17.0	14.5	13.5	8.0	5.0	6.0	4.0	---	---	8.5	6.5
12	20.5	14.5	14.5	12.5	7.5	4.5	6.5	5.5	---	---	9.0	6.5
13	20.0	14.5	13.5	13.0	7.0	4.5	7.0	5.0	---	---	7.5	6.0
14	18.5	13.5	13.0	12.0	7.0	4.5	6.5	4.5	---	---	8.0	5.5
15	18.5	14.5	15.0	12.5	7.5	4.5	6.5	4.5	---	---	6.5	6.0
16	18.5	13.5	16.0	13.0	7.5	4.5	6.5	4.0	---	---	8.5	5.5
17	18.0	13.0	14.5	14.0	7.0	4.5	7.0	3.5	13.5	9.0	9.5	6.0
18	17.5	13.0	15.5	13.0	7.0	4.5	7.0	3.5	14.0	8.5	9.0	6.5
19	17.0	13.5	15.5	12.5	6.5	3.5	7.5	4.0	14.0	8.5	10.0	7.5
20	17.0	13.5	14.5	10.5	6.0	3.5	---	---	12.0	9.5	12.0	8.0
21	16.0	14.0	15.0	12.0	6.0	3.5	---	---	10.5	8.0	13.0	9.0
22	16.0	14.0	14.5	12.5	7.0	4.5	---	---	8.5	7.0	13.0	9.5
23	16.5	13.5	14.0	11.0	8.0	5.5	---	---	8.5	7.0	11.0	9.0
24	14.5	13.0	12.5	10.5	7.0	4.5	---	---	8.0	6.5	9.0	7.5
25	16.5	13.5	12.5	10.5	8.0	6.0	---	---	8.5	6.0	10.5	6.5
26	16.5	13.0	11.5	9.0	7.0	4.0	---	---	9.5	6.5	12.0	7.5
27	15.5	11.0	9.5	6.5	7.0	4.5	---	---	10.0	6.5	11.0	8.5
28	15.0	12.5	9.0	5.5	7.0	3.5	---	---	9.5	7.0	10.5	6.5
29	16.0	12.5	9.0	5.5	8.5	6.5	---	---	---	---	10.0	6.0
30	17.0	14.5	9.0	5.5	8.0	6.0	---	---	---	---	11.0	6.0
31	16.0	12.5	---	---	7.0	4.0	---	---	---	---	11.5	6.5
MONTH	24.5	11.0	18.0	5.5	10.0	3.5	---	---	---	---	13.0	5.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	9.0	17.0	14.5	22.0	16.5	24.5	18.5	24.0	19.0	23.0	17.5
2	13.0	8.0	19.0	13.5	22.5	14.5	23.5	17.5	27.0	20.0	22.5	17.5
3	14.5	9.0	18.5	13.5	20.0	15.0	23.0	17.0	25.0	19.0	24.5	18.0
4	16.0	10.5	15.5	12.0	23.0	15.5	22.5	17.5	24.5	19.0	25.5	21.0
5	16.5	11.5	14.5	11.5	23.5	16.5	25.0	16.5	23.0	19.0	21.5	19.0
6	17.0	12.0	14.5	10.5	23.5	17.0	26.5	19.0	24.0	18.5	24.0	18.0
7	17.5	12.0	13.5	9.5	20.0	17.0	23.5	19.0	24.5	19.0	23.5	18.0
8	15.5	12.0	16.5	9.5	18.5	16.5	24.0	17.5	24.5	19.0	23.0	18.0
9	14.0	10.5	13.5	12.0	21.0	16.0	22.5	17.5	25.0	19.0	22.0	17.0
10	14.0	9.0	13.0	11.0	18.0	16.5	23.0	17.5	25.5	19.0	22.0	17.0
11	15.0	11.0	13.0	11.0	17.0	15.5	25.0	17.5	25.0	19.0	22.0	16.5
12	16.5	11.0	16.5	10.5	22.0	15.0	20.5	18.0	24.5	19.0	21.5	16.5
13	16.0	12.0	17.5	11.5	23.0	16.0	24.0	17.0	23.5	19.0	20.5	16.5
14	16.0	11.0	17.0	12.5	24.0	17.0	25.0	17.5	24.0	19.0	19.5	17.0
15	17.5	11.0	17.0	11.5	25.0	17.5	25.5	17.5	25.0	18.5	18.0	16.5
16	17.5	12.5	14.5	11.5	23.0	18.0	25.0	17.5	23.5	18.5	17.0	15.0
17	17.5	11.0	17.5	11.5	22.5	17.5	25.0	17.5	23.5	18.5	19.0	16.0
18	17.0	11.5	14.0	12.0	18.5	16.5	25.0	18.5	23.0	20.0	19.5	16.5
19	18.5	11.0	20.0	12.5	17.5	15.5	25.0	17.5	24.0	19.5	20.5	17.0
20	17.5	11.0	21.5	14.0	21.5	15.0	24.5	17.5	21.0	19.5	20.5	16.0
21	19.0	11.0	17.0	15.0	24.0	17.0	25.0	16.5	21.0	19.0	20.5	16.0
22	19.5	12.0	15.0	13.0	23.0	18.0	24.5	17.0	23.5	18.0	20.5	16.0
23	19.0	12.0	16.5	12.5	23.5	17.5	24.5	18.0	25.0	18.0	18.0	15.5
24	19.0	12.5	21.0	13.5	25.0	16.0	22.0	18.5	23.0	20.5	21.0	15.5
25	18.0	13.5	17.5	14.0	20.5	17.5	21.5	18.0	21.0	18.5	21.0	14.5
26	19.5	11.5	16.5	13.5	25.0	17.0	25.0	17.5	23.0	18.0	22.0	16.0
27	20.5	13.0	19.0	16.5	25.5	17.5	25.0	18.0	23.5	18.5	18.5	16.5
28	15.5	13.0	20.0	16.5	27.5	18.0	25.0	18.0	25.5	18.0	18.0	16.0
29	17.0	12.5	21.0	13.5	26.0	18.5	26.0	19.0	24.0	20.0	18.0	15.0
30	18.5	13.5	22.5	14.0	23.0	18.0	26.5	18.0	22.0	18.5	17.0	13.5
31	---	---	24.0	14.5	---	---	26.5	18.5	23.0	18.0	---	---
MONTH	20.5	8.0	24.0	9.5	27.5	14.5	26.5	16.5	27.0	18.0	25.5	13.5

11480400 RUTH RESERVOIR NEAR FOREST GLEN, CA

LOCATION (REVISED).--Lat 40°22'08", long 123°25'56", in NW¼NW¼ sec.19, T.1 S., R.7 E., Trinity County, Six Rivers National Forest, near center of Robert W. Matthews Dam on Mad River, 5.6 mi (9.0 km) west of Forest Glen.

DRAINAGE AREA.--121 mi^2 (313 km^2), revised.

WATER-CONTENT RECORDS

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 at mean sea level (levels by Humboldt Bay Municipal Water District).

REMARKS.--Reservoir is formed by earthfill dam; storage began July 1961. Total capacity, 51,800 acre-ft (63.9 hm^3) at elevation 2,654.0 ft (808.94 m), crest of spillway. Water is released down Mad River for municipal use. Records given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 66,400 acre-ft (81.9 hm^3) Feb. 14, 1975, elevation, 2,665.98 ft (812.591 m); minimum, 14,100 acre-ft (17.4 hm^3) Sept. 27, 29, 30, 1977; minimum elevation, 2,611.38 ft (795.949 m) Sept. 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 35,800 acre-ft (44.1 hm^3) Oct. 1, elevation, 2,638.46 ft (804.203 m); minimum, 14,100 acre-ft (17.4 hm^3) Sept. 27, 29, 30; minimum elevation, 2,611.38 ft (795.949 m) Sept. 30.

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 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35600	28800	24200	19300	17200	19000	25100	26400	27200	26300	22500	17500
2	35400	28600	24000	19300	17100	19200	25200	26400	27200	26200	22300	17400
3	35200	28300	23900	19200	17100	19300	25300	26400	27200	26100	22100	17200
4	35100	28200	23700	19200	17000	19400	25400	26400	27200	26000	22000	17000
5	34900	28000	23500	19200	16900	19500	25500	26400	27200	25900	21800	16900
6	34700	27900	23300	19000	16900	19600	25600	26500	27200	25900	21600	16700
7	34500	27700	23100	18800	16800	19700	25600	26500	27200	25800	21500	16500
8	34400	27600	22900	18700	16900	19800	25700	26600	27200	25600	21300	16400
9	34100	27500	22700	18500	16900	20300	25800	26600	27200	25500	21100	16200
10	34000	27300	22600	18400	17000	20700	25900	26600	27100	25400	20900	16000
11	33800	27200	22400	18400	17000	21000	25900	26700	27100	25300	20800	15900
12	33600	27100	22200	18300	17000	21200	26000	26800	27100	25200	20600	15700
13	33400	27000	22000	18400	17000	21400	26000	26800	27100	25000	20500	15500
14	33200	26900	21900	18500	17000	21500	26100	26800	27100	24900	20300	15400
15	33200	26800	21700	18400	17000	21700	26100	26900	27100	24800	20100	15200
16	33200	26700	21500	18400	16900	21900	26100	26900	27100	24600	20000	15100
17	33200	26600	21400	18300	16900	22100	26100	26900	27100	24500	19800	15000
18	33200	26600	21200	18300	16900	22300	26100	27000	27000	24300	19700	14900
19	33200	26400	21100	18200	16800	22400	26200	27000	27000	24200	19500	14900
20	31600	26300	20900	18200	16900	22600	26200	27000	27000	24100	19300	14900
21	31400	26100	20800	18100	17200	22700	26200	27000	27000	24000	19200	14800
22	31100	25900	20700	18100	17600	22800	26200	27000	26900	23900	19000	14700
23	30900	25700	20500	18000	17900	23000	26200	27100	26800	23700	18900	14600
24	30600	25500	20400	18000	18100	23300	26200	27100	26700	23600	18700	14500
25	30400	25300	20200	17900	18300	23500	26200	27100	26600	23500	18600	14300
26	30200	25100	20100	17800	18500	23800	26300	27100	26500	23400	18500	14200
27	29900	24900	19900	17800	18600	24200	26300	27200	26500	23300	18300	14100
28	29700	24800	19800	17700	18800	24400	26300	27200	26400	23200	18200	14200
29	29500	24600	19700	17500	---	24600	26300	27200	26400	23000	18000	14100
30	29200	24400	19500	17400	---	24800	26300	27200	26400	22800	17800	14100
31	29000	---	19400	17300	---	25000	---	27200	---	22700	17700	---
MAX	35600	28800	24200	19300	18800	25000	26300	27200	27200	26300	22500	17500
MIN	29000	24400	19400	17300	16800	19000	25100	26400	26400	22700	17700	14100
(†)	2631.34	2625.62	2618.99	2616.18	2618.25	2626.39	2628.12	2629.23	2628.19	2623.33	2616.64	2611.38
(‡)	-6800	-4600	-5000	-2100	+1500	+6200	+1300	+900	-800	-3700	-5000	-3600

CAL YR 1976 ‡ -3300
WTR YR 1977 ‡ -21700

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

11480400 RUTH RESERVOIR NEAR FOREST GLEN, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

AT DAM (Lat 40°22'03", long 123°25'52")

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
SEP						
08...	1305	.5	124	7.9	22.2	7.5
08...	1306	1.0	124	7.9	21.7	7.5
08...	1307	2.0	123	7.9	21.4	7.6
08...	1308	3.0	123	7.8	21.2	7.8
08...	1309	4.0	123	7.7	20.9	7.8
08...	1310	5.0	122	7.7	20.8	7.9
08...	1311	6.0	123	7.7	20.7	7.9
08...	1312	7.0	122	7.7	20.6	8.0
08...	1313	8.0	122	7.7	20.6	7.9
08...	1314	9.0	122	7.7	20.5	7.8
08...	1315	10.0	123	7.6	20.4	7.7
08...	1316	11.0	123	7.5	20.4	7.6
08...	1317	12.0	122	7.5	20.3	7.5
08...	1318	13.0	122	7.5	20.3	7.4
08...	1319	14.0	122	7.5	20.3	7.3
08...	1320	15.0	125	7.5	20.2	7.2
08...	1321	16.0	124	7.5	20.2	6.9
08...	1322	17.0	124	7.5	20.2	6.8

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
SEP											
08...	1330	1.0	123	7.9	22.0	7.5	48	4	15	2.5	3.1

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
SEP											
08...	12	.2	.8	53	0	43	7.5	1.1	.0	2.9	59

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP											
08...	.08	.01	.01	.00	.19	.19	.20	.00	.00	10	30

1/ To convert meters to feet, multiply by 3.281.

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, Six Rivers National Forest, on right bank 0.7 mi (1.1 km) downstream from Lamb Creek, and 11.1 mi (17.9 km) northwest of Forest Glen.

DRAINAGE AREA.--143 mi^2 (370 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1953 to current year.

REVISED RECORDS.--WSP 1395: 1954. WSP 1715: 1957(M), 1958(P).

GAGE.--Water-stage recorder. Datum of gage is 2,408.18 ft (734.013 m) above mean sea level. 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.--24 years, 375 ft^3/s (10.62 m^3/s), 271,700 acre-ft/yr (335 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,200 ft^3/s (1,110 m^3/s) Dec. 22, 1955, gage height, 24.5 ft (7.468 m) present datum, from floodmarks, from rating curve extended above 8,100 ft^3/s (229 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.60 ft^3/s (0.017 m^3/s) Sept. 15, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 125 ft^3/s (3.54 m^3/s) May 3, gage height, 3.37 ft (1.027 m); minimum daily, 8.7 ft^3/s (0.25 m^3/s) June 12-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	98	89	69	35	24	17	11	9.3	14	81	69
2	86	98	88	79	57	20	15	11	9.3	32	72	59
3	81	98	88	74	37	22	14	31	9.3	35	72	57
4	81	98	88	18	37	19	14	19	9.3	35	72	67
5	81	89	88	12	37	18	14	13	9.3	37	72	69
6	81	59	88	57	37	16	13	13	9.3	37	72	69
7	79	61	88	89	26	16	13	12	9.3	40	70	69
8	77	61	88	64	29	18	14	12	9.3	50	70	67
9	81	64	88	64	23	50	12	13	8.7	50	70	67
10	81	69	83	66	20	37	11	13	9.3	50	70	66
11	81	70	77	67	16	26	11	13	9.3	50	69	66
12	81	70	77	50	15	28	11	14	8.7	67	69	66
13	81	70	77	17	15	28	11	13	8.7	67	69	66
14	86	75	77	13	15	24	12	12	8.7	67	69	66
15	102	72	77	38	18	26	11	12	8.7	67	69	66
16	100	64	77	40	33	37	11	12	8.7	67	67	66
17	100	37	69	38	24	38	11	12	8.7	67	66	64
18	100	37	69	38	24	33	11	11	8.7	64	66	57
19	100	59	69	38	24	29	11	9.9	8.7	55	66	64
20	100	91	69	40	28	28	11	9.9	8.7	53	66	14
21	100	91	70	40	67	25	11	9.9	17	55	66	14
22	100	91	59	38	37	23	9.9	9.3	23	59	66	50
23	100	91	61	38	35	24	9.9	9.3	26	59	66	50
24	100	91	61	38	29	30	9.9	9.3	74	59	64	53
25	100	91	55	38	23	32	11	9.3	35	57	64	50
26	100	89	69	38	19	26	11	9.9	35	37	61	48
27	100	89	69	38	18	25	11	9.3	35	37	57	48
28	98	89	67	38	22	23	11	9.3	23	57	57	61
29	100	89	69	72	---	20	9.9	9.3	15	77	61	37
30	100	89	69	59	---	19	11	9.3	14	77	74	19
31	98	---	67	53	---	18	---	9.3	---	81	74	---
TOTAL	2841	2340	2330	1461	800	802	353.6	370.3	477.0	1659	2107	1684
MEAN	91.6	78.0	75.2	47.1	28.6	25.9	11.8	11.9	15.9	53.5	68.0	56.1
MAX	102	98	89	89	67	50	17	31	74	81	81	69
MIN	77	37	55	12	15	16	9.9	9.3	8.7	14	57	14
AC-FT	5640	4640	4620	2900	1590	1590	701	734	946	3290	4180	3340

CAL YR 1976 TOTAL 50800.0 MEAN 139 MAX 3510 MIN 18 AC-FT 100800
WTR YR 1977 TOTAL 17224.9 MEAN 47.2 MAX 102 MIN 8.7 AC-FT 34170

11480500 MAD RIVER NEAR FOREST GLEN, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to current year.
CHEMICAL ANALYSES: Water years 1971-74, 1977.
WATER TEMPERATURES: Water years 1961 to current year.
SEDIMENT RECORDS: Water years 1957-74.
TURBIDITY: Water years 1964-67, 1971-74.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1960 to current year.

INSTRUMENTATION.--Temperature recorder since November 1960.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 26.0°C June 25, 1961, June 29, 1977; minimum, 0.0°C Jan. 5, 6, 1968.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 26.0°C June 29; minimum, 2.5°C Jan. 6, 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 08...	1010	71	115	6.8	18.0	6.5	51	5	16

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP 08...	2.7	3.2	12	.2	.8	56	0	46	7.5

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP 08...	1.2	.0	3.7	63	.09	12.1	.01	6	10

11480500 MAD RIVER NEAR FOREST GLEN, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	16.5	14.0	13.0	8.5	7.5	5.0	5.0	6.5	5.0	8.0	6.5
2	17.0	15.5	14.0	13.0	8.0	7.5	5.0	3.5	5.5	4.0	7.5	6.5
3	16.5	14.5	13.5	12.5	8.0	7.0	4.0	3.0	5.5	3.5	8.5	6.5
4	16.5	15.5	13.0	12.0	8.0	7.0	5.0	4.0	5.5	4.0	9.0	6.0
5	17.0	15.0	13.0	11.5	7.5	7.0	5.0	4.0	6.0	5.0	9.5	7.0
6	17.0	15.5	13.0	12.0	8.0	7.0	4.0	2.5	7.5	5.5	9.5	8.0
7	17.0	15.5	12.5	11.0	8.0	7.0	4.0	3.0	7.5	6.0	9.0	8.5
8	17.0	15.0	12.0	11.0	8.0	7.5	4.0	3.0	7.5	7.0	10.0	8.5
9	16.5	14.5	12.0	11.0	8.0	7.5	4.0	2.5	8.0	7.0	10.0	7.5
10	16.0	14.0	13.0	12.0	7.5	7.0	4.5	3.0	9.0	7.0	9.0	6.5
11	16.5	15.0	13.0	12.5	7.5	7.0	5.0	4.5	9.5	7.5	9.0	7.0
12	16.0	14.5	12.5	12.0	7.0	6.5	5.5	5.0	10.0	8.0	8.5	7.5
13	16.0	14.0	12.0	11.5	7.0	6.5	5.5	5.0	10.0	8.5	9.5	7.0
14	15.5	14.0	12.0	11.5	7.0	6.0	5.0	4.5	10.0	8.0	9.0	7.5
15	15.5	13.5	13.0	12.0	7.0	6.0	4.5	4.0	9.5	8.0	8.5	6.5
16	16.0	14.5	13.0	12.5	7.0	6.5	4.0	3.0	10.0	7.5	8.5	6.0
17	16.0	14.0	13.5	12.5	6.5	6.0	4.0	3.0	9.5	7.5	10.0	7.0
18	16.0	14.0	13.0	12.0	6.0	5.0	4.5	3.0	9.5	7.5	9.5	7.5
19	16.0	14.5	12.5	10.5	6.0	5.0	5.0	3.5	9.5	7.5	11.0	8.5
20	15.5	14.0	11.0	10.5	5.5	4.5	5.5	4.5	9.0	8.0	12.0	9.0
21	15.5	14.0	12.0	11.0	5.5	4.5	6.0	5.0	8.0	6.5	12.5	9.0
22	15.5	14.0	11.5	11.0	6.0	5.0	6.5	5.5	8.0	6.0	13.0	9.5
23	15.5	14.5	11.0	10.0	6.5	5.5	6.0	5.0	7.5	6.5	12.0	9.5
24	15.0	14.0	10.5	10.0	5.5	4.5	5.5	4.5	6.5	5.5	9.5	8.5
25	15.5	14.5	10.5	10.0	6.0	5.0	5.0	3.5	7.5	6.0	11.0	8.0
26	14.5	13.5	10.5	9.0	5.5	5.0	5.0	3.5	7.5	6.5	12.5	9.0
27	14.5	13.0	9.0	7.5	6.0	5.0	5.0	3.5	9.0	7.0	11.5	9.5
28	14.5	13.0	9.0	7.5	5.5	4.5	5.0	3.5	9.0	7.0	11.0	8.0
29	14.0	13.0	9.0	8.0	6.5	5.0	5.0	3.5	---	---	10.0	8.0
30	14.5	13.5	9.0	8.0	6.5	5.0	5.0	4.0	---	---	10.0	8.0
31	14.0	13.0	---	---	5.5	5.0	6.5	5.0	---	---	11.0	8.0
MONTH	17.5	13.0	14.0	7.5	8.5	4.5	6.5	2.5	10.0	3.5	13.0	6.0

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

11481000 MAD RIVER NEAR ARCATA, CA

LOCATION.--Lat 40°54'35", long 124°03'35", in NW¼ sec.15, T.6 N., R.1 E., Humboldt County, on right bank 100 ft (30 m) upstream from bridge on U.S. Highway 299, 1.0 mi (1.6 km) downstream from Warren Creek, and 2.8 mi (4.5 km) northeast of Arcata.

DRAINAGE AREA.--485 mi^2 (1,256 km^2).

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) above mean sea level. 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 June 28 to Sept. 18 which are poor. 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).--30 years, 1,504 ft^3/s (42.59 m^3/s), 1,090,000 acre-ft/yr (1.34 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,000 ft^3/s (2,290 m^3/s) Dec. 22, 1964, gage height, 30.7 ft (9.36 m) present datum, from high-water mark profile; minimum, 0.10 ft^3/s (0.003 m^3/s) Aug. 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,360 ft^3/s (95.2 m^3/s) Mar. 9, gage height, 7.92 ft (2.414 m); minimum daily, 0.10 ft^3/s (0.003 m^3/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	57	33	20	54	1130	382	100	108	35	21	10
2	27	51	33	110	56	773	363	130	92	25	20	8.5
3	25	53	31	745	46	987	333	195	78	7.0	26	5.6
4	22	52	29	505	41	810	325	317	70	2.9	33	5.3
5	17	50	32	225	26	574	355	280	63	1.2	7.0	5.2
6	17	54	33	89	22	438	346	243	58	.45	2.9	5.0
7	18	37	33	47	22	352	325	280	51	.20	1.0	5.0
8	18	16	36	66	20	546	350	257	45	2.7	4.0	5.0
9	24	9.0	45	62	27	2320	333	211	40	9.2	11	5.2
10	22	17	42	66	42	1570	275	231	34	11	15	5.4
11	20	45	36	129	31	896	235	391	31	13	9.0	5.2
12	17	49	31	462	23	1160	203	425	29	14	5.4	5.0
13	17	41	28	376	19	1200	191	333	27	12	5.0	3.8
14	19	106	26	203	14	912	169	271	23	7.2	4.5	3.2
15	19	448	26	118	9.3	781	148	223	21	6.3	4.0	3.0
16	27	197	24	86	6.7	936	126	207	21	5.0	6.0	3.2
17	45	86	24	78	3.6	766	114	191	12	3.8	5.4	3.4
18	47	49	23	71	6.0	633	100	183	13	3.1	4.9	4.5
19	48	30	21	70	7.7	540	87	191	12	2.4	4.4	479
20	47	23	26	71	12	505	76	174	8.5	1.9	4.1	433
21	48	24	32	73	72	467	80	144	5.6	4.9	3.5	191
22	47	40	34	72	568	462	70	133	6.2	8.6	2.8	37
23	49	40	33	65	491	665	61	165	2.5	8.0	1.8	5.7
24	54	39	36	61	557	2090	55	161	7.8	6.8	1.1	32
25	63	37	38	52	452	1420	58	130	12	5.8	.62	85
26	60	36	31	46	311	920	60	195	37	4.7	.40	54
27	56	38	22	46	276	787	52	317	19	4.2	.25	34
28	51	34	23	44	658	677	52	243	13	4.0	.16	175
29	48	34	23	42	---	556	43	191	4.2	7.2	.10	732
30	50	34	19	44	---	482	46	152	1.4	19	5.0	325
31	55	---	21	52	---	420	---	126	---	24	9.0	---
TOTAL	1099	1826.0	924	4196	3873.3	26775	5413	6790	945.2	260.55	218.33	2674.2
MEAN	35.5	60.9	29.8	135	138	864	180	219	31.5	8.40	7.04	89.1
MAX	63	448	45	745	658	2320	382	425	108	35	33	732
MIN	17	9.0	19	20	3.6	352	43	100	1.4	.20	.10	3.0
AC-FT	2180	3620	1830	8320	7680	53110	10740	13470	1870	517	433	5300
(†)	4680	5360	4950	5130	4210	4910	4620	4960	4710	4090	4410	4310

CAL YR 1976 TOTAL 227852.30 MEAN 623 MAX 12500 MIN 7.5 AC-FT 451900 † 61980
WTR YR 1977 TOTAL 54994.58 MEAN 151 MAX 2320 MIN .10 AC-FT 109100 † 56340

† Diversion, in acre-feet, for municipal supply and industrial use, furnished by Humboldt Municipal Water District.

11481000 MAD RIVER NEAR ARCATA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955 to current year.
CHEMICAL ANALYSES: Water years 1959 to current year.
WATER TEMPERATURES: Water years 1958 to current year.
SEDIMENT RECORDS: Water years 1955-74.
TURBIDITY: Water years 1971-74.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1957 to current year.
SEDIMENT RECORDS: December 1957 to September 1974.

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, 27.0°C July 6, 27, 28, 1968, July 30, 1977; minimum, 0.5°C Dec. 17-20, 1965.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C July 30; minimum, 4.5°C Jan. 6, 7, 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
NOV 08...	1345	--	15	208	8.2	13.0	1	11.7
JAN 04...	1550	--	389	174	7.6	8.5	55	12.9
MAR 07...	1430	--	340	173	7.8	10.0	5	11.5
MAY 02...	1245	--	133	196	8.2	16.0	3	11.7
JUL 11...	1230	13	--	253	8.0	21.0	1	10.7
SEP 19...	1245	--	471	209	8.2	20.0	1	10.2

DATE	TIME	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
JAN 04...	1550	77	16	6.6	.3	74	0	61	5.5	0
MAR 07...	1430	77	14	4.8	.2	77	0	63	4.9	0

11481000 MAD RIVER NEAR ARCATA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

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

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, 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.--44.4 mi^2 (115.0 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1955 to current year. Prior to October 1971, published as "at Crannell."

REVISED RECORDS.--WSP 2129: 1956-60.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 17.62 ft (5.371 m) above mean sea level.

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

AVERAGE DISCHARGE.--22 years, 142 ft^3/s (4.021 m^3/s), 102,900 acre-ft/yr (127 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft^3/s (278 m^3/s) Mar. 18, 1975, gage height, 14.19 ft (4.325 m), from rating curve extended above 3,100 ft^3/s (87.8 m^3/s) on basis of slope-area measurement at gage height 14.08 ft (4.292 m); minimum daily, 2.8 ft^3/s (0.079 m^3/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, 688 ft^3/s (19.5 m^3/s) Mar. 9, gage height, 3.77 ft (1.149 m), no peak above base of 3,000 ft^3/s (85 m^3/s); minimum daily, 3.5 ft^3/s (0.099 m^3/s) Sept. 10-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	6.1	7.0	7.4	8.8	104	38	29	20	8.4	4.4	4.0
2	5.5	6.1	6.7	73	8.8	69	34	41	18	8.4	4.2	4.0
3	5.5	6.1	6.7	131	8.4	102	32	109	19	8.4	4.2	3.9
4	5.5	5.8	6.7	53	8.1	70	29	82	17	8.1	4.2	3.9
5	5.5	5.5	7.0	29	7.7	47	27	52	16	8.1	4.3	3.9
6	5.5	5.5	7.0	20	8.1	36	27	42	16	7.7	4.3	3.9
7	5.2	5.5	7.0	16	8.1	35	24	36	16	7.7	4.3	3.9
8	5.2	5.5	8.1	14	8.8	131	41	30	16	7.7	4.2	3.7
9	5.2	6.1	11	12	13	388	35	27	16	7.7	4.2	3.7
10	5.2	13	9.2	19	11	159	29	30	16	7.7	4.2	3.5
11	5.2	27	8.4	46	9.6	97	26	42	15	7.7	4.1	3.5
12	4.7	18	8.1	147	9.2	175	24	42	15	7.4	4.1	3.5
13	4.4	17	7.7	58	8.1	177	22	34	14	7.0	4.1	3.5
14	4.2	76	7.4	35	8.1	139	20	29	14	6.7	4.1	3.5
15	4.2	94	7.4	26	8.1	143	20	26	13	6.4	4.0	3.5
16	4.2	30	7.4	20	8.1	184	19	25	13	6.4	4.0	4.2
17	4.2	19	7.4	18	7.7	116	17	24	13	6.4	4.0	6.4
18	4.2	14	6.7	15	7.4	83	17	22	13	6.1	3.9	8.1
19	4.9	13	6.7	14	7.4	67	16	24	13	5.8	3.9	41
20	4.7	11	6.7	13	10	54	16	22	13	5.5	3.9	18
21	4.7	10	6.7	12	35	45	16	20	13	5.8	3.9	11
22	4.7	9.6	6.7	11	49	40	15	20	12	5.5	3.8	8.1
23	4.7	8.8	6.7	11	47	73	15	23	11	5.5	3.8	7.0
24	5.5	8.8	6.7	10	54	331	14	22	11	5.5	3.8	12
25	9.6	8.4	6.7	10	43	182	15	19	10	5.5	4.0	10
26	7.7	8.4	6.7	9.6	31	114	16	57	10	5.8	4.1	7.7
27	6.4	7.7	7.0	9.2	25	86	14	50	9.6	5.8	4.3	7.7
28	5.5	7.4	7.0	8.8	92	69	14	34	9.2	5.2	4.2	50
29	5.5	7.4	9.2	8.4	---	57	15	29	8.8	4.9	4.1	162
30	5.5	7.4	9.2	8.4	---	49	15	25	8.4	4.7	4.0	36
31	5.5	---	8.1	8.8	---	42	---	22	---	4.7	4.0	---
TOTAL	164.0	468.1	231.0	873.6	550.5	3464	662	1089	409.0	204.2	126.6	445.1
MEAN	5.29	15.6	7.45	28.2	19.7	112	22.1	35.1	13.6	6.59	4.08	14.8
MAX	9.6	94	11	147	92	388	41	109	20	8.4	4.4	162
MIN	4.2	5.5	6.7	7.4	7.4	35	14	19	8.4	4.7	3.8	3.5
AC-FT	325	928	458	1730	1090	6870	1310	2160	811	405	251	883

CAL YR 1976 TOTAL 26157.0 MEAN 71.5 MAX 1350 MIN 4.2 AC-FT 51880
WTR YR 1977 TOTAL 8687.1 MEAN 23.8 MAX 388 MIN 3.5 AC-FT 17230

11481200 LITTLE RIVER NEAR TRINIDAD, CA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 01...	1530	4.1	87	7.6	17.5	10.2	38	3	11

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP 01...	2.6	5.4	23	.4	.5	43	0	35	5.4

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP 01...	6.5	.1	9.8	63	.09	.70	.01	30	150

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, 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.--67.6 mi^2 (175.1 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1953 to September 1958, October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 850 ft (259 m), from topographic map.

REMARKS.--Records good except those below 5.0 ft^3/s (0.14 m^3/s), which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--10 years, 268 ft^3/s (7.590 m^3/s), 194,200 acre-ft/yr (239 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft^3/s (346 m^3/s) Mar. 18, 1975, gage height, 13.70 ft (4.176 m), from rating curve extended above 6,400 ft^3/s (181 m^3/s); minimum daily, 2.6 ft^3/s (0.074 m^3/s) Aug. 24, Sept. 11-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 827 ft^3/s (23.4 m^3/s) Mar. 9, gage height, 5.59 ft (1.704 m), no peak above base of 1,900 ft^3/s (54 m^3/s); minimum daily, 2.6 ft^3/s (0.074 m^3/s) Aug. 24, Sept. 11-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	6.4	12	15	16	172	127	70	61	18	6.4	5.6
2	6.4	6.4	12	59	16	136	126	64	58	16	6.4	5.6
3	6.9	6.4	12	137	15	214	121	109	54	16	5.9	5.2
4	6.9	6.4	12	57	15	157	135	105	50	16	5.8	4.8
5	6.2	6.0	12	32	14	125	161	92	47	16	5.8	4.8
6	6.3	6.0	12	24	15	112	155	96	44	16	5.8	4.8
7	6.0	6.1	12	20	15	101	157	98	41	15	5.8	4.2
8	5.9	5.9	13	18	20	196	171	90	40	14	5.8	3.7
9	5.9	5.9	18	16	30	479	140	82	39	14	5.6	3.1
10	5.8	6.0	15	23	25	255	114	92	37	13	5.4	3.1
11	5.8	11	13	35	22	188	100	126	38	13	5.0	2.6
12	5.8	15	13	72	20	266	94	114	36	12	5.0	2.6
13	5.7	12	13	47	20	225	94	98	34	12	5.0	2.6
14	5.6	54	13	36	19	177	88	88	32	11	5.0	2.6
15	5.6	71	13	30	18	158	82	80	31	11	4.2	2.6
16	5.6	31	13	27	18	162	80	78	29	10	4.2	3.7
17	5.6	21	13	25	17	147	75	82	28	9.1	3.7	10
18	5.6	17	12	24	16	133	71	78	27	9.1	3.1	13
19	5.5	16	12	23	16	125	67	88	27	9.1	3.1	44
20	5.4	15	11	26	20	127	64	77	26	9.1	3.1	25
21	5.4	14	11	27	91	126	62	71	26	9.1	3.1	14
22	5.5	14	11	25	98	135	59	68	25	8.6	3.1	11
23	5.6	13	11	24	99	179	57	74	24	8.2	3.1	10
24	7.4	13	11	23	107	280	55	69	24	7.7	2.6	18
25	13	13	11	21	86	238	58	64	24	8.2	8.2	15
26	8.9	13	11	19	68	212	56	122	23	8.2	6.4	11
27	7.3	13	11	19	74	218	49	113	23	8.2	7.3	11
28	6.8	13	11	18	193	192	47	89	21	7.3	6.0	15
29	6.4	13	12	17	---	162	48	78	19	7.3	6.0	21
30	6.4	13	13	16	---	142	51	71	18	7.3	5.6	16
31	6.4	---	13	16	---	126	---	66	---	6.9	5.6	---
TOTAL	198.0	456.5	382	971	1183	5665	2764	2692	1006	346.4	157.1	295.6
MEAN	6.39	15.2	12.3	31.3	42.3	183	92.1	86.8	33.5	11.2	5.07	9.85
MAX	13	71	18	137	193	479	171	126	61	18	8.2	44
MIN	5.4	5.9	11	15	14	101	47	64	18	6.9	2.6	2.6
AC-FT	393	905	758	1930	2350	11240	5480	5340	2000	687	312	586

CAL YR 1976 TOTAL 47697.0 MEAN 130 MAX 2030 MIN 5.4 AC-FT 94610
WTR YR 1977 TOTAL 16116.6 MEAN 44.2 MAX 479 MIN 2.6 AC-FT 31970

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1974-75.
WATER TEMPERATURES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to current year.
SEDIMENT RECORDS.--October 1972 to current year.

INSTRUMENTATION.--Temperature recorder since October 1972.

REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 33.5°C Aug. 2, 1977; minimum recorded, 0.5°C Jan. 9, 1977.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 11,200 mg/L Mar. 18, 1975; minimum daily mean, 0 mg/L on several days in 1976.
SEDIMENT DISCHARGE: Maximum daily, 276,000 tons (250,000 tonnes) Mar. 18, 1975; minimum daily, 0 tons (0 tonnes) on several days in 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 33.5°C Aug. 2; minimum, 0.5°C Jan. 9.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 385 mg/L Mar. 9; minimum daily mean, 0 mg/L on several days during October and November.
SEDIMENT DISCHARGE: Maximum daily, 633 tons (574 tonnes) Mar. 9; minimum daily, 0 tons (0 tonnes) on several days during October and November.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 08...	1340	3.6	207	9.2	21.0	10.8	93	11	32

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP 08...	3.2	4.5	9	.2	.8	94	3	77	23

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP 08...	4.4	.1	3.7	121	.16	1.19	.01	90	30

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	21.0	--	16.0	15.0	--	12.0	--	--	--	4.5	--	3.0	8.5	--	5.0	9.0	--	6.0
2	17.0	--	15.5	15.5	--	13.0	--	7.0	--	5.0	--	4.0	7.5	--	3.5	8.0	--	6.0
3	19.5	--	14.0	14.5	--	11.5	--	--	--	5.5	--	4.0	7.5	--	3.5	9.5	--	7.0
4	19.0	--	13.0	14.0	--	10.5	--	--	--	6.0	--	4.5	8.0	--	3.5	10.0	--	6.0
5	19.5	--	12.5	13.0	--	10.0	--	--	--	6.0	--	3.0	7.5	--	5.0	11.0	--	6.0
6	20.0	--	14.0	13.5	--	10.5	--	4.0	--	4.5	--	2.0	10.0	--	6.0	10.0	--	6.5
7	20.0	--	14.5	13.5	--	10.0	5.0	--	2.5	4.0	--	1.5	8.5	--	5.5	10.0	--	8.0
8	20.0	--	15.0	12.5	--	9.5	6.0	--	3.0	3.5	--	1.0	--	--	--	11.0	--	8.5
9	19.0	--	13.5	12.0	--	9.5	6.0	--	3.5	4.0	--	0.5	--	--	--	9.5	--	7.5
10	18.0	--	13.5	13.5	--	11.5	5.0	--	2.5	5.5	--	3.0	--	--	--	9.5	--	6.5
11	19.0	--	13.5	12.0	--	11.5	5.0	--	2.0	5.5	--	4.0	--	--	--	10.0	--	6.5
12	18.5	--	13.0	13.5	--	10.5	5.0	--	2.0	6.5	--	5.0	--	--	--	9.0	--	6.5
13	17.5	--	12.5	12.0	--	10.5	4.5	--	2.0	6.5	--	4.5	--	--	--	9.5	--	6.0
14	16.5	--	11.5	12.5	--	10.0	4.5	--	2.0	6.0	--	3.5	--	--	--	9.0	--	6.0
15	15.5	--	11.0	13.5	--	12.0	5.0	--	2.0	6.0	--	3.5	--	13.0	--	7.5	--	7.0
16	16.0	--	12.0	14.0	--	11.5	5.5	--	2.5	5.5	--	3.0	--	--	--	--	8.0	--
17	16.0	--	11.5	15.0	--	11.0	4.5	--	2.0	5.5	--	2.5	--	7.0	--	--	--	--
18	15.0	--	11.0	--	--	--	4.0	--	1.5	5.5	--	3.0	--	--	--	--	10.0	--
19	15.0	--	11.0	--	--	--	3.5	--	1.0	6.5	--	3.0	--	--	--	--	11.0	--
20	14.5	--	10.5	--	--	--	3.5	--	1.0	6.5	--	4.5	--	--	--	--	--	--
21	14.5	--	11.5	--	--	--	4.0	--	1.0	8.0	--	5.5	--	8.0	--	--	--	--
22	14.5	--	12.0	--	--	--	5.0	--	2.0	8.5	--	6.5	--	9.0	--	--	14.0	--
23	14.5	--	12.0	--	10.0	--	5.0	--	2.5	8.0	--	5.0	--	8.0	--	--	8.0	--
24	13.0	--	10.5	--	--	--	4.5	--	1.5	7.0	--	4.5	8.5	--	6.0	--	--	--
25	14.5	--	11.5	--	--	--	5.5	--	3.5	6.5	--	3.5	9.0	--	6.0	--	8.0	--
26	14.0	--	10.5	--	10.0	--	4.5	--	2.5	6.5	--	3.0	9.5	--	7.0	--	6.0	--
27	13.5	--	9.5	--	--	--	6.0	--	3.0	7.0	--	3.0	11.0	--	7.0	--	--	--
28	13.0	--	9.0	--	--	--	5.5	--	2.0	7.0	--	3.0	9.5	--	6.5	--	--	--
29	12.5	--	9.5	--	--	--	6.5	--	5.0	7.0	--	3.0	--	--	--	--	--	--
30	14.0	--	11.5	--	7.0	--	7.0	--	4.0	6.5	--	3.0	--	--	--	--	9.0	--
31	14.0	--	11.0	--	--	--	5.5	--	3.0	9.0	--	6.0	--	--	--	--	--	--
MONTH	21.0	--	9.0	--	--	--	7.0	--	1.0	9.0	--	0.5	--	--	--	--	--	--

DAY	APR MAX	APR DAILY	APR MIN	MAY MAX	MAY DAILY	MAY MIN	JUN MAX	JUN DAILY	JUN MIN	JUL MAX	JUL DAILY	JUL MIN	AUG MAX	AUG DAILY	AUG MIN	SEP MAX	SEP DAILY	SEP MIN
1	--	--	--	15.0	--	12.5	21.5	--	15.5	27.0	--	20.5	25.0	--	18.5	25.5	--	15.5
2	--	--	--	16.5	--	11.5	21.5	--	13.0	26.5	--	19.0	33.5	--	18.5	25.5	--	16.0
3	--	--	--	14.0	--	11.0	18.5	--	13.5	24.5	--	17.5	32.0	--	18.5	26.0	--	15.5
4	--	--	--	13.0	--	10.0	24.0	--	15.0	24.0	--	17.5	32.0	--	17.0	27.0	--	19.0
5	--	--	--	12.5	--	10.0	25.0	--	16.0	24.0	--	15.5	31.0	--	16.5	27.0	--	19.5
6	--	--	--	13.5	--	8.5	25.5	--	17.0	25.0	--	15.5	30.0	--	15.5	26.0	--	16.0
7	--	15.0	--	13.0	--	8.0	24.0	--	18.0	26.0	--	16.0	31.0	--	16.5	26.0	--	16.5
8	--	--	--	16.0	--	8.0	23.5	--	17.5	26.0	--	16.5	31.0	--	16.5	25.5	--	15.5
9	--	13.0	--	12.0	--	10.0	21.5	--	17.0	26.0	--	17.5	31.5	--	16.5	25.0	--	15.5
10	--	--	--	11.5	--	10.0	18.0	--	16.0	27.0	--	15.0	32.0	--	17.0	25.0	--	15.5
11	--	--	--	12.0	--	9.5	18.0	--	15.5	29.0	--	16.0	32.0	--	17.0	25.0	--	15.0
12	--	--	--	14.5	--	9.0	23.0	--	15.5	28.5	--	16.0	30.0	--	16.5	24.5	--	15.0
13	--	--	--	16.0	--	10.5	23.5	--	16.0	29.0	--	14.0	30.5	--	16.0	22.0	--	14.5
14	--	--	--	13.5	--	11.5	25.0	--	17.0	30.0	--	15.5	31.0	--	15.5	17.0	--	16.0
15	--	15.0	--	14.5	--	10.0	25.5	--	17.0	31.0	--	16.5	32.0	--	15.0	16.0	--	14.5
16	--	--	--	13.5	--	10.5	25.0	--	17.0	31.0	--	17.0	31.5	--	14.5	17.5	--	14.0
17	--	--	--	16.0	--	10.0	23.0	--	17.5	30.0	--	16.0	25.0	--	17.5	18.0	--	15.0
18	--	--	--	13.0	--	10.5	23.0	--	17.0	29.5	--	16.5	26.5	--	19.5	19.0	--	15.5
19	--	15.0	--	19.5	--	11.0	24.0	--	17.0	30.0	--	15.5	27.0	--	18.5	18.5	--	15.5
20	--	--	--	20.0	--	12.5	20.5	--	16.5	29.5	--	15.5	25.0	--	19.0	21.5	--	15.0
21	--	--	--	17.5	--	13.0	26.0	--	17.5	30.0	--	14.5	26.5	--	18.0	21.0	--	14.5
22	--	--	--	15.0	--	13.0	26.5	--	18.0	30.5	--	15.0	27.0	--	16.0	20.5	--	13.5
23	--	--	--	15.0	--	12.0	26.0	--	17.5	30.5	--	16.0	27.5	--	16.5	17.0	--	13.0
24	--	17.0	--	19.0	--	12.0	26.5	--	17.0	27.0	--	16.5	22.5	--	19.0	20.0	--	14.5
25	--	14.0	--	17.0	--	13.0	26.5	--	18.0	25.5	--	16.5	20.5	--	18.0	20.5	--	13.0
26	18.0	--	13.0	14.0	--	12.0	27.5	--	18.5	30.0	--	15.5	24.0	--	17.5	20.5	--	14.0
27	18.5	--	10.0	17.0	--	10.5	27.5	--	18.0	29.5	--	13.5	25.0	--	16.5	16.5	--	15.0
28	15.0	--	11.0	18.5	--	10.5	29.0	--	19.5	30.0	--	14.5	27.0	--	18.0	17.5	--	15.5
29	15.0	--	11.0	20.0	--	11.5	28.5	--	20.0	30.5	--	14.0	27.0	--	19.5	20.0	--	14.5
30	16.0	--	12.5	20.0	--	12.0	25.0	--	20.0	32.0	--	15.5	26.0	--	18.0	19.0	--	12.5
31	--	--	--	22.5	--	13.0	--	--	--	32.5	--	16.5	25.5	--	16.5	--	--	--
MONTH	--	--	--	22.5	--	8.0	29.0	--	13.0	32.5	--	13.5	33.5	--	14.5	27.0	--	12.5

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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	6.4	1	.02	6.4	0	0	12	1	.03
2	6.4	1	.02	6.4	0	0	12	1	.03
3	6.9	1	.02	6.4	0	0	12	1	.03
4	6.9	1	.02	6.4	0	0	12	1	.03
5	6.2	3	.05	6.0	0	0	12	1	.03
6	6.3	2	.03	6.0	0	0	12	1	.03
7	6.0	1	.02	6.1	0	0	12	1	.03
8	5.9	1	.02	5.9	0	0	13	1	.04
9	5.9	1	.02	5.9	0	0	18	1	.05
10	5.8	1	.02	6.0	0	0	15	1	.04
11	5.8	1	.02	11	2	.06	13	1	.04
12	5.8	1	.02	15	3	.12	13	1	.04
13	5.7	1	.02	12	3	.10	13	1	.04
14	5.6	1	.02	54	59	11	13	1	.04
15	5.6	1	.02	71	28	7.2	13	1	.04
16	5.6	1	.02	31	2	.17	13	1	.04
17	5.6	1	.02	21	1	.06	13	1	.04
18	5.6	1	.02	17	1	.05	12	1	.03
19	5.5	1	.01	16	1	.04	12	1	.03
20	5.4	0	0	15	1	.04	11	1	.03
21	5.4	0	0	14	1	.04	11	1	.03
22	5.5	0	0	14	1	.04	11	1	.03
23	5.6	0	0	13	1	.04	11	1	.03
24	7.4	1	.02	13	1	.04	11	1	.03
25	13	2	.07	13	1	.04	11	1	.03
26	8.9	1	.02	13	1	.04	11	1	.03
27	7.3	1	.02	13	1	.04	11	1	.03
28	6.8	1	.02	13	1	.04	11	1	.03
29	6.4	1	.02	13	1	.04	12	1	.03
30	6.4	1	.02	13	1	.04	13	1	.04
31	6.4	1	.02	---	---	---	13	1	.04
TOTAL	198.0	---	.62	456.5	---	19.24	382	---	1.06

	JANUARY			FEBRUARY			MARCH		
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	15	5	.20	16	1	.04	172	24	11
2	59	64	12	16	1	.04	136	18	7.2
3	137	159	68	15	1	.04	214	35	20
4	57	18	2.8	15	1	.04	157	9	3.8
5	32	3	.26	14	1	.04	125	5	1.7
6	24	2	.13	15	1	.04	112	3	.91
7	20	1	.05	15	2	.08	101	5	1.4
8	18	1	.05	20	2	.11	196	23	12
9	16	1	.04	30	4	.32	479	385	633
10	23	3	.19	25	3	.20	255	19	13
11	35	5	.47	22	2	.12	188	15	7.6
12	72	24	4.8	20	1	.05	266	37	28
13	47	4	.51	20	1	.05	225	15	9.1
14	36	3	.29	19	1	.05	177	14	6.7
15	30	3	.24	18	1	.05	158	12	5.1
16	27	2	.15	18	1	.05	162	10	4.4
17	25	2	.14	17	1	.05	147	6	2.4
18	24	2	.13	16	1	.04	133	8	2.9
19	23	2	.12	16	1	.04	125	5	1.7
20	26	2	.14	20	2	.11	127	4	1.4
21	27	3	.22	91	170	56	126	5	1.7
22	25	2	.14	98	40	12	135	5	1.8
23	24	2	.13	99	19	5.2	179	12	5.8
24	23	2	.12	107	19	5.4	280	58	45
25	21	2	.11	86	12	2.8	238	21	13
26	19	2	.10	68	6	1.1	212	15	8.6
27	19	2	.10	74	7	1.4	218	17	10
28	18	4	.19	193	68	40	192	13	6.7
29	17	2	.09	---	---	---	162	9	3.9
30	16	2	.09	---	---	---	142	7	2.7
31	16	2	.09	---	---	---	126	6	2.0
TOTAL	971	---	92.09	1183	---	125.46	5665	---	874.51

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	127	6	2.1	70	12	2.3	61	1	.16
2	126	5	1.7	64	9	1.6	58	1	.16
3	121	5	1.6	109	47	15	54	1	.15
4	135	6	2.2	105	7	2.0	50	1	.14
5	161	6	2.6	92	3	.75	47	1	.13
6	155	6	2.5	96	3	.78	44	1	.12
7	157	5	2.1	98	4	1.1	41	1	.11
8	171	15	6.9	90	3	.73	40	1	.11
9	140	12	4.5	82	2	.44	39	1	.11
10	114	12	3.7	92	4	.99	37	1	.10
11	100	10	2.7	126	5	1.7	38	1	.10
12	94	7	1.8	114	4	1.2	36	1	.10
13	94	6	1.5	98	2	.53	34	1	.09
14	88	5	1.2	88	2	.48	32	1	.09
15	82	4	.89	80	2	.43	31	1	.08
16	80	4	.86	78	2	.42	29	1	.08
17	75	3	.61	82	3	.66	28	1	.08
18	71	2	.38	78	2	.42	27	1	.07
19	67	2	.36	88	2	.48	27	1	.07
20	64	2	.35	77	2	.42	26	1	.07
21	62	2	.33	71	2	.38	26	1	.07
22	59	2	.32	68	1	.18	25	1	.07
23	57	1	.15	74	2	.40	24	1	.06
24	55	1	.15	69	4	.75	24	1	.06
25	58	5	.78	64	6	1.0	24	1	.06
26	56	18	2.7	122	12	4.0	23	1	.06
27	49	12	1.6	113	7	2.1	23	1	.06
28	47	6	.76	89	2	.48	21	1	.06
29	48	5	.65	78	1	.21	19	1	.05
30	51	5	.69	71	1	.19	18	1	.05
31	---	---	---	66	1	.18	---	---	---
TOTAL	2764	---	48.68	2692	---	42.30	1006	---	2.72

	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	18	1	.05	6.4	2	.03	5.6	4	.06
2	16	1	.04	6.4	2	.03	5.6	4	.06
3	16	1	.04	5.9	2	.03	5.2	4	.06
4	16	1	.04	5.8	2	.03	4.8	4	.05
5	16	1	.04	5.8	2	.03	4.8	4	.05
6	16	1	.04	5.8	2	.03	4.8	4	.05
7	15	1	.04	5.8	2	.03	4.2	4	.05
8	14	1	.04	5.8	2	.03	3.7	4	.04
9	14	2	.08	5.6	3	.05	3.1	4	.03
10	13	2	.07	5.4	3	.04	3.1	4	.03
11	13	2	.07	5.0	3	.04	2.6	4	.03
12	12	2	.06	5.0	3	.04	2.6	4	.03
13	12	2	.06	5.0	3	.04	2.6	4	.03
14	11	2	.06	5.0	3	.04	2.6	4	.03
15	11	2	.06	4.2	3	.03	2.6	4	.03
16	10	2	.05	4.2	3	.03	3.7	4	.04
17	9.1	2	.05	3.7	4	.04	10	7	.19
18	9.1	2	.05	3.1	4	.03	13	7	.25
19	9.1	2	.05	3.1	4	.03	44	30	3.6
20	9.1	2	.05	3.1	3	.03	25	20	1.4
21	9.1	2	.05	3.1	3	.03	14	4	.15
22	8.6	2	.05	3.1	3	.03	11	4	.12
23	8.2	2	.04	3.1	2	.02	10	4	.11
24	7.7	2	.04	2.6	5	.04	18	3	.15
25	8.2	2	.04	8.2	5	.11	15	3	.12
26	8.2	2	.04	6.4	4	.07	11	3	.09
27	8.2	2	.04	7.3	4	.08	11	3	.09
28	7.3	2	.04	6.0	4	.06	15	3	.12
29	7.3	2	.04	6.0	4	.06	21	10	.57
30	7.3	2	.04	5.6	4	.06	16	5	.22
31	6.9	2	.04	5.6	4	.06	---	---	---
TOTAL	346.4	---	1.50	157.1	---	1.30	295.6	---	7.85
YEAR	16116.6		1217.33						

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1976	198.00	0.62	0	1
NOVEMBER ...	456.50	19.24	0	19
DECEMBER ...	382.00	1.06	0	1
JANUARY 1977	971.00	92.09	3	95
FEBRUARY ...	1183.00	125.46	17	142
MARCH	5665.00	874.51	654	1530
APRIL	2764.00	48.68	43	92
MAY	2692.00	42.30	7	49
JUNE	1006.00	2.72	0	3
JULY	346.40	1.50	0	1
AUGUST	157.10	1.30	0	1
SEPTEMBER ..	295.60	7.85	0	8
TOTAL	16116.60	1217.33	724	1942

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
NOV								
14...	1510	11.0	52	73	10	--	--	--
14...	1730	11.0	72	89	17	--	--	--
JAN								
03...	0830	5.0	185	424	212	49	62	79
03...	1700	5.0	147	81	32	--	--	--
FEB								
21...	1440	8.0	142	359	138	52	71	86
28...	1800	7.0	239	62	40	--	--	--
MAY								
03...	0715	11.0	72	65	13	--	--	--
03...	1830	12.0	164	38	17	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV							
14...	--	--	97	97	98	99	100
14...	--	--	98	99	99	99	100
JAN							
03...	91	96	98	100	--	--	--
03...	--	--	100	--	--	--	--
FEB							
21...	97	99	100	--	--	--	--
28...	--	--	99	100	--	--	--
MAY							
03...	--	--	99	100	--	--	--
03...	--	--	97	99	100	--	--

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CA

LOCATION.--Lat 41°10'19", long 123°56'55", in SE¼NE¼ sec.16, T.9 N., R.2 E., Humboldt County, Redwood National Park (south boundary), on left bank 150 ft (46 m) downstream from Slide Creek, 8.6 mi (13.8 km) southeast of Orick, and 17 mi (27 km) upstream from mouth.

DRAINAGE AREA.--185 mi^2 (479 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 226.84 ft (69.141 m) above mean sea level. Prior to Aug. 3, 1973, at different datum.

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

AVERAGE DISCHARGE.--7 years, 761 ft^3/s (21.55 m^3/s), 551,300 acre-ft/yr (680 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,000 ft^3/s (935 m^3/s) Mar. 18, 1975, gage height, unknown, on basis of runoff comparison with upstream and downstream stations; maximum gage height recorded, 29.36 ft (8.949 m) Mar. 2, 1972, datum then in use; minimum daily discharge, 4.5 ft^3/s (0.13 m^3/s) Oct. 17-21, 23, 26, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,540 ft^3/s (71.9 m^3/s) Mar. 9, gage height, 7.18 ft (2.188 m), no peak above base of 5,900 ft^3/s (167 m^3/s); minimum daily, 9.4 ft^3/s (0.27 m^3/s) Sept. 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	16	21	23	46	716	360	173	157	51	18	15
2	15	16	21	185	44	541	350	171	148	50	19	13
3	18	16	21	565	42	784	325	326	139	48	18	13
4	17	16	21	264	41	557	310	357	131	47	17	13
5	15	16	21	141	42	400	320	286	123	47	16	13
6	15	15	21	99	43	321	302	269	116	46	16	13
7	14	15	21	79	41	321	294	266	113	45	16	12
8	14	14	22	66	46	618	351	249	108	44	16	12
9	14	14	30	58	60	1690	299	220	105	42	16	11
10	13	22	30	74	64	1130	252	222	95	42	16	11
11	13	30	25	144	53	752	229	281	104	39	15	11
12	12	41	24	373	49	934	211	276	101	38	14	11
13	12	42	22	211	47	899	205	238	95	38	13	10
14	12	153	22	153	45	743	197	215	92	36	13	9.4
15	12	271	21	124	43	651	185	199	88	35	13	9.4
16	14	111	21	105	42	651	175	197	85	33	13	11
17	15	69	21	93	40	565	166	191	81	31	13	15
18	12	51	20	85	39	479	155	181	79	30	12	31
19	11	42	19	79	38	431	146	193	77	29	12	88
20	11	38	19	77	60	397	141	171	77	28	12	89
21	11	34	19	77	252	364	134	159	75	27	12	50
22	11	31	19	73	414	341	129	155	73	26	12	36
23	11	30	19	68	360	390	123	166	69	26	12	30
24	15	28	19	65	449	500	118	157	66	25	14	41
25	30	26	19	60	329	990	126	144	64	25	19	45
26	29	25	19	57	249	840	126	279	61	25	24	36
27	22	24	19	53	226	640	115	297	58	25	25	34
28	19	23	19	50	565	500	110	226	52	24	21	123
29	17	22	23	48	---	410	110	203	53	23	18	259
30	16	22	23	46	---	385	115	183	51	20	16	95
31	16	---	22	46	---	375	---	166	---	21	15	---
TOTAL	471	1273	663	3641	3769	19315	6179	6816	2736	1066	486	1159.8
MEAN	15.2	42.4	21.4	117	135	623	206	220	91.2	34.4	15.7	38.7
MAX	30	271	30	565	565	1690	360	357	157	51	25	259
MIN	11	14	19	23	38	321	110	144	51	20	12	9.4
AC-FT	934	2520	1320	7220	7480	38310	12260	13520	5430	2110	964	2300

CAL YR 1976 TOTAL 147283.0 MEAN 402 MAX 7570 MIN 11 AC-FT 292100
WTR YR 1977 TOTAL 47574.8 MEAN 130 MAX 1690 MIN 9.4 AC-FT 94360

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to current year.
CHEMICAL ANALYSES: Water years 1971-77.
WATER TEMPERATURES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1971 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1973 to current year.

INSTRUMENTATION.--Temperature recorder since October 1973.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 27.5°C June 29, 1974; minimum recorded, 1.0°C Dec. 10, 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 26.0°C Aug. 2; minimum, 1.0°C Dec. 10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 13...	1415	9.7	202	8.4	20.0	9.6	95	15	33

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP 13...	3.0	5.1	10	.2	.8	98	0	80	23

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP 13...	4.7	.2	3.8	122	.17	3.20	.03	70	30

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---			---	---	---	---	8.5	6.5	8.0	6.5
2	---	---			---	---	---	---	8.0	5.0	7.5	7.0
3	---	---			---	---	---	---	8.0	5.5	9.0	7.0
4	---	---			---	---	---	---	8.0	5.5	9.0	6.5
5	---	---			---	---	5.5	4.0	8.0	6.5	9.5	6.5
6	---	---			---	---	4.0	2.5	9.5	6.5	9.5	7.0
7	---	---			6.5	5.5	3.5	2.0	10.0	7.5	9.0	8.5
8	17.5	15.5			7.0	5.5	3.5	2.0	10.0	9.0	10.0	9.0
9	17.0	14.5			7.0	6.0	3.5	1.5	10.5	6.5	9.5	7.5
10	17.0	14.0			6.5	1.0	5.0	3.5	10.5	8.0	8.5	6.5
11	17.0	14.0			6.0	4.5	6.0	4.5	11.0	8.0	9.0	7.0
12	16.0	12.5			6.0	4.0	7.0	6.0	11.5	9.0	8.5	7.0
13	15.0	12.0			5.5	4.0	7.0	5.5	12.5	10.0	8.0	5.5
14	14.0	11.0			5.5	4.0	7.0	5.0	12.0	9.0	7.5	6.0
15	13.5	11.5			6.0	4.0	7.0	5.5	12.0	9.0	7.5	7.0
16	---	---			6.0	4.5	6.5	5.0	12.0	9.5	9.5	6.5
17	---	---			6.0	4.5	6.5	4.5	11.5	9.5	9.5	7.0
18	---	---			5.0	3.5	6.5	4.5	12.0	8.0	8.5	7.0
19	---	---			5.0	3.0	7.0	4.5	12.0	9.0	10.0	8.0
20	---	---			4.5	3.0	7.0	5.5	11.0	9.5	11.0	8.5
21	---	---			4.5	2.5	8.0	6.5	9.5	8.5	11.5	8.5
22	---	---			5.0	3.5	8.5	7.0	9.0	7.5	11.5	9.0
23	---	---			5.5	4.0	8.0	5.5	9.0	7.5	10.5	8.0
24	---	---			5.0	3.5	7.5	5.0	8.5	7.0	8.5	6.5
25	---	---			6.5	5.0	6.5	4.0	8.5	6.5	9.5	7.0
26	---	---			5.5	4.5	6.5	4.0	9.5	7.5	10.5	7.5
27	---	---			6.0	4.5	6.5	4.0	10.5	8.0	10.0	8.0
28	---	---			---	---	6.5	4.0	10.0	7.5	9.0	6.5
29	---	---			---	---	6.5	4.0	---	---	9.5	7.0
30	---	---			---	---	6.5	4.0	---	---	9.5	6.5
31	---	---			---	---	8.5	6.5	---	---	10.5	6.5
MONTH	---	---			---	---	8.5	1.5	12.5	5.0	11.5	5.5

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC										
03...	1235	6.0	21	2	.11	--	--	--	--	--
JAN										
14...	1450	7.0	148	10	4.0	--	--	--	--	--
FEB										
17...	1505	11.0	40	4	.43	--	--	--	--	--
APR										
05...	1420	--	323	18	16	--	--	--	--	--
MAY										
02...	1440	14.0	164	7	3.1	--	--	--	--	--
26...	1340	12.5	326	65	57	71	77	87	99	100
AUG										
05...	1315	22.0	16	2	.09	--	--	--	--	--
SEP										
13...	1330	20.0	9.4	11	.28	--	--	--	--	--

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, Redwood National Park, on right bank 0.8 mi (1.3 km) upstream from mouth, and 3.2 mi (5.1 km) northeast of Orick.

DRAINAGE AREA.--3.46 mi^2 (8.96 km^2).

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 fair. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 808 ft^3/s (22.9 m^3/s) Mar. 18, 1975, gage height, 4.32 ft (1.317 m); minimum daily, 0.10 ft^3/s (0.003 m^3/s) Dec. 19-26, 28, 1976, Feb. 19, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 88 ft^3/s (2.49 m^3/s) Sept. 28, gage height, 2.89 ft (0.881 m), no peak above base of 100 ft^3/s (2.8 m^3/s); minimum daily, 0.10 ft^3/s (0.003 m^3/s) Dec. 19-26, 28, Feb. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.32	.13	.13	.17	12	4.9	2.8	3.6	.75	.35	.43
2	.24	.29	.13	3.1	.17	8.5	4.6	3.1	3.4	.75	.35	.39
3	.22	.29	.13	8.4	.15	9.5	3.9	10	3.1	.75	.31	.35
4	.21	.24	.12	2.8	.15	7.1	3.6	9.5	2.8	.75	.31	.31
5	.17	.24	.12	1.4	.17	5.2	3.1	9.5	2.6	.69	.28	.35
6	.17	.21	.12	.93	.17	3.6	2.8	9.0	2.4	.69	.31	.35
7	.17	.21	.12	.47	.17	3.1	2.6	7.5	2.1	.69	.39	.31
8	.17	.19	.21	.32	.21	5.2	6.7	6.3	2.1	.69	.43	.28
9	.17	.29	.43	.29	.24	28	5.2	5.6	2.0	.69	.43	.28
10	.17	1.3	.19	.78	.19	18	4.6	6.7	1.8	.75	.39	.25
11	.17	1.2	.15	5.6	.17	12	4.3	8.0	1.6	.69	.35	.25
12	.19	1.0	.13	9.0	.15	15	3.9	7.5	1.6	.69	.28	.25
13	.17	1.2	.12	3.6	.15	16	3.6	6.3	1.6	.69	.28	.25
14	.15	4.9	.12	2.1	.13	14	3.4	5.9	1.6	.69	.28	.25
15	.15	4.3	.12	1.4	.13	13	3.1	5.2	1.5	.63	.31	.25
16	.15	1.1	.12	1.2	.12	13	2.8	4.9	1.4	.57	.31	.31
17	.15	.72	.12	1.0	.12	11	2.6	4.6	1.3	.57	.25	.89
18	.15	.35	.12	.85	.12	8.5	2.1	4.3	1.4	.57	.25	1.3
19	.15	.26	.10	.66	.10	7.5	2.1	3.9	1.4	.52	.25	7.0
20	.15	.24	.10	.39	.19	6.3	1.9	3.4	1.3	.52	.31	2.1
21	.15	.21	.10	.32	1.2	5.2	1.7	3.1	1.3	.52	.31	1.1
22	.17	.21	.10	.29	1.9	4.9	1.7	3.6	1.2	.47	.35	.69
23	.17	.19	.10	.26	2.6	8.0	1.6	3.9	1.1	.47	.31	.89
24	.24	.17	.10	.24	8.0	13	1.4	3.6	1.1	.47	.69	4.1
25	.35	.17	.10	.21	5.2	13	1.6	3.4	.97	.52	1.2	1.5
26	.32	.17	.10	.19	3.1	10	1.4	5.9	.97	.52	.97	.89
27	.26	.15	.12	.19	2.4	9.0	1.3	5.9	.89	.47	.63	3.1
28	.24	.15	.10	.17	11	8.0	1.3	5.2	.89	.47	.52	38
29	.21	.13	.17	.17	---	7.1	1.3	4.9	.78	.43	.47	38
30	.24	.13	.17	.17	---	6.3	1.4	4.3	.75	.39	.52	18
31	.29	---	.13	.17	---	5.6	---	3.6	---	.35	.52	---
TOTAL	6.17	20.53	4.19	46.80	38.57	306.6	86.5	171.4	50.55	18.42	12.91	122.42
MEAN	.20	.68	.14	1.51	1.38	9.89	2.88	5.53	1.69	.59	.42	4.08
MAX	.35	4.9	.43	9.0	11	28	6.7	10	3.6	.75	1.2	38
MIN	.15	.13	.10	.13	.10	3.1	1.3	2.8	.75	.35	.25	.25
AC-FT	12	41	8.3	93	77	608	172	340	100	37	26	243

CAL YR 1976 TOTAL 1998.81 MEAN 5.46 MAX 91 MIN .10 AC-FT 3960
WTR YR 1977 TOTAL 885.06 MEAN 2.42 MAX 38 MIN .10 AC-FT 1760

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 to current year.
SEDIMENT RECORDS: Water years 1974-76.

REMARKS.--Prior to October 1975, published in Geological Survey Open-File Report 76-678, "Redwood National Park Studies", Data Release Number 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 13...	1445	.26	73	7.3	12.5	10.5	25	0	6.2

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP 13...	2.3	7.3	38	.6	.6	35	0	29	2.5

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP 13...	6.9	.0	7.1	50	.07	.04	.02	20	10

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, on left bank at upstream side of bridge on U.S. Highway 101 at Orick, 0.9 mi (1.4 km) downstream from Prairie Creek.

DRAINAGE AREA.--278 mi^2 (720 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1911 to September 1913, October 1953 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1912-13.

GAGE.--Water-stage recorder. Datum of gage is 5.16 ft (1.573 m) above mean sea level. Sept. 10, 1911, to Aug. 9, 1913, nonrecording gage at different datum.

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

AVERAGE DISCHARGE.--26 years, 1,066 ft^3/s (30.19 m^3/s), 772,300 acre-ft/yr (952 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,500 ft^3/s (1,430 m^3/s) Dec. 22, 1964, gage height, 24.0 ft (7.32 m) from outside high-water marks; minimum, 9.3 ft^3/s (0.26 m^3/s) Oct. 17-19, 21, 23-26, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 18, 1953, reached a stage of 23.95 ft (7.300 m) from floodmarks, discharge, 50,000 ft^3/s (1,420 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,310 ft^3/s (93.7 m^3/s) Mar. 9, gage height, 9.12 ft (2.780 m), no peak above base of 9,000 ft^3/s (255 m^3/s); minimum daily, 14 ft^3/s (0.40 m^3/s) Sept. 9-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	19	45	42	97	1030	429	230	227	75	29	18
2	16	20	43	148	99	789	418	283	215	72	28	17
3	18	19	42	591	97	1020	401	455	204	68	25	17
4	19	19	42	418	92	847	389	622	197	67	22	17
5	19	18	42	224	90	607	407	500	185	65	21	17
6	19	16	42	158	92	467	414	460	175	64	21	16
7	19	16	41	130	92	424	392	415	168	61	24	15
8	18	16	42	114	93	805	530	389	163	61	26	15
9	17	16	59	102	101	2260	460	353	158	58	21	14
10	16	34	54	112	105	1500	380	354	148	56	21	14
11	17	38	52	171	101	980	337	409	143	54	20	14
12	18	49	48	586	95	1160	308	417	146	52	19	14
13	18	45	45	370	92	1220	290	371	136	50	18	14
14	16	149	43	255	92	1000	276	337	134	50	18	14
15	16	362	42	201	92	845	265	308	129	47	18	14
16	16	195	41	170	88	862	249	300	123	45	17	14
17	17	125	40	153	88	721	236	288	117	43	16	30
18	16	94	40	143	90	595	227	276	115	42	16	44
19	15	78	40	136	90	510	215	287	113	42	16	197
20	15	69	39	132	93	465	207	267	109	41	16	158
21	15	63	38	127	192	419	198	248	109	39	18	111
22	16	59	37	121	419	389	190	243	105	37	18	81
23	16	53	38	117	419	535	178	264	101	36	16	67
24	16	50	37	115	595	1230	170	248	97	35	21	111
25	22	50	37	115	500	1280	178	232	92	35	41	92
26	29	49	37	113	364	980	190	337	90	34	43	76
27	27	48	35	111	319	862	168	409	88	34	41	75
28	23	48	34	109	627	751	163	332	86	33	36	864
29	19	47	41	105	---	622	160	296	76	32	29	1380
30	16	46	45	103	---	529	163	268	75	32	25	483
31	17	---	43	97	---	459	---	243	---	30	21	---
TOTAL	560	1910	1304	5589	5314	26163	8588	10441	4024	1490	721	4013
MEAN	18.1	63.7	42.1	180	190	844	286	337	134	48.1	23.3	134
MAX	29	362	59	591	627	2260	530	622	227	75	43	1380
MIN	15	16	34	42	88	389	160	230	75	30	16	14
AC-FT	1110	3790	2590	11090	10540	51890	17030	20710	7980	2960	1430	7960

CAL YR 1976 TOTAL 201506 MEAN 551 MAX 9070 MIN 15 AC-FT 399700
WTR YR 1977 TOTAL 70117 MEAN 192 MAX 2260 MIN 14 AC-FT 139100

11482500 REDWOOD CREEK AT ORICK, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1959 to current year.
CHEMICAL ANALYSES: Water years 1959-66, 1973 to current year.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1955-56, 1970 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.
SEDIMENT RECORDS: March 1970 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 24.0°C July 10, 1976; minimum recorded, 1.0°C Dec. 14, 1967.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 9,610 mg/L Mar. 18, 1975; minimum daily mean, 1 mg/L on many days in 1970, 1973-74, 1976.
SEDIMENT DISCHARGE: Maximum daily, 1,070,000 tons (971,000 tonnes) Mar. 18, 1975; minimum daily, 0.03 ton (0.03 tonne) Oct. 7, 8, 11, 12, 1970.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 22.0°C Oct. 6; minimum, 4.0°C Jan. 9.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,360 mg/L Mar. 9; minimum daily mean, 1 mg/L on several days during October and November.
SEDIMENT DISCHARGE: Maximum daily, 9,680 tons (8,780 tonnes) Mar. 9; minimum daily, 0.04 ton (0.04 tonne) Oct. 19, Nov. 6-9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT							
04...	1300	21	177	7.6	19.0	1	10.2
NOV							
08...	1430	15	173	8.2	13.5	1	12.0
DEC							
06...	1415	43	185	8.2	13.0	0	12.7
JAN							
04...	1645	337	171	8.0	7.0	20	12.6
FEB							
01...	1500	99	186	7.4	12.0	0	12.3
MAR							
07...	1515	415	139	7.2	9.5	5	11.4
APR							
04...	1345	380	128	7.4	14.0	4	10.9
MAY							
02...	1330	276	142	7.5	15.5	4	10.5
JUN							
13...	1315	136	160	7.8	20.0	1	10.5
JUL							
11...	1330	53	181	7.6	21.0	1	9.4
AUG							
08...	1245	26	171	7.4	18.5	1	9.9
SEP							
19...	1400	279	144	7.3	18.0	25	8.7

DATE	TIME	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
DEC										
06...	1415	82	17	27	3.5	5.9	13	.3	.6	80
JAN										
04...	1645	77	26	--	--	3.8	--	.2	--	62
FEB										
01...	1500	82	20	--	--	5.0	--	.2	--	76
MAR										
07...	1515	60	13	--	--	4.1	--	.2	--	57
APR										
04...	1345	53	12	--	--	3.4	--	.2	--	50
SEP										
19...	1400	60	17	--	--	6.4	--	.4	--	52

11482500 REDWOOD CREEK AT ORICK, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED BORON (B) (UG/L)
DEC 06...	0	66	18	7.8	118	102	.16	13.7	0
JAN 04...	0	51	--	5.4	--	--	--	--	0
FEB 01...	0	62	--	5.7	--	--	--	--	100
MAR 07...	0	47	--	5.5	--	--	--	--	0
APR 04...	0	41	--	4.4	--	--	--	--	0
SEP 19...	0	43	--	7.3	--	--	--	--	0

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

11482500 REDWOOD CREEK AT ORICK, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	9.5	14.0	13.5	17.5	15.0	18.5	17.5	18.0	16.5	18.0	16.0
2	12.0	9.0	14.5	12.5	17.5	14.0	20.0	17.0	19.0	16.5	17.5	16.5
3	13.0	9.5	14.0	13.0	16.0	14.0	20.0	17.0	18.5	16.5	17.0	16.0
4	13.5	10.0	13.5	12.0	19.0	14.5	19.5	17.5	17.5	16.0	18.0	17.0
5	12.5	11.0	13.5	12.0	19.5	15.5	19.5	16.5	17.0	16.0	18.5	18.0
6	13.5	11.0	13.5	11.0	18.5	16.5	20.0	17.0	16.5	15.5	18.5	18.0
7	12.0	11.0	13.5	11.0	17.5	16.0	19.5	17.0	16.0	15.5	18.0	17.0
8	13.0	11.0	14.5	11.0	18.5	15.5	19.5	17.0	16.5	15.5	17.5	16.5
9	13.0	10.5	13.5	12.0	18.0	15.5	18.5	17.0	16.5	15.5	17.0	16.0
10	12.5	10.0	12.5	11.5	16.5	15.5	19.5	17.0	16.0	15.5	16.5	16.0
11	14.0	11.0	12.5	11.0	17.5	15.0	19.5	17.0	16.0	15.5	16.0	16.0
12	13.5	10.5	13.5	10.5	17.0	15.5	19.0	17.0	16.0	15.5	16.0	16.0
13	13.5	11.5	14.0	11.0	18.5	15.0	19.0	16.5	16.0	15.5	16.0	16.0
14	13.5	10.5	15.0	12.0	17.0	16.0	19.0	16.5	15.5	15.5	16.0	16.0
15	14.0	11.0	14.5	12.0	19.0	15.5	19.0	17.0	15.5	15.0	16.0	16.0
16	14.0	11.5	13.5	12.0	18.0	16.0	19.0	17.0	15.5	15.0	16.0	15.5
17	14.0	11.0	14.5	12.0	16.5	16.0	19.0	17.0	16.0	15.5	16.5	15.5
18	14.0	10.5	13.5	12.0	16.5	15.5	19.0	17.0	16.5	16.0	17.0	16.5
19	14.5	10.5	15.5	12.0	16.5	15.5	19.5	17.0	16.5	16.0	18.0	16.0
20	13.5	11.0	16.0	13.0	18.0	15.5	19.0	17.0	16.5	16.0	19.5	17.0
21	14.0	11.5	15.0	13.5	20.0	16.5	19.0	16.5	16.5	15.5	19.0	16.5
22	13.5	11.5	14.0	13.0	19.5	17.0	19.5	16.5	16.5	15.5	18.0	15.5
23	14.5	11.5	14.0	12.0	20.0	17.0	18.0	16.5	17.0	15.5	17.0	16.0
24	14.5	12.0	16.0	12.0	20.5	16.5	17.5	16.5	18.0	17.0	17.5	15.5
25	14.5	12.5	14.5	12.5	20.0	17.5	17.0	16.0	17.5	16.5	17.5	15.0
26	15.5	12.0	14.5	12.5	20.5	17.0	18.0	16.0	17.5	16.0	18.0	16.5
27	15.0	12.5	14.5	11.5	20.5	17.0	18.5	16.5	18.0	16.0	17.5	16.5
28	14.0	12.5	15.5	12.0	21.0	17.5	18.5	16.0	19.0	17.0	16.5	15.0
29	14.5	12.5	16.5	12.5	20.5	18.0	18.5	16.0	19.0	18.0	16.5	15.0
30	14.5	13.0	16.5	13.0	19.5	17.5	19.0	16.0	18.5	17.5	16.5	15.0
31	---	---	17.5	13.5	---	---	19.5	16.5	18.5	16.5	---	---
MONTH	15.5	9.0	17.5	10.5	21.0	14.0	20.0	16.0	19.0	15.0	19.5	15.0

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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	19	2	.10	19	2	.10	45	3	.36
2	16	2	.09	20	2	.11	43	3	.35
3	18	2	.10	19	3	.15	42	3	.34
4	19	2	.10	19	2	.10	42	3	.34
5	19	4	.21	18	2	.10	42	3	.34
6	19	6	.31	16	1	.04	42	3	.34
7	19	4	.21	16	1	.04	41	3	.33
8	18	3	.15	16	1	.04	42	4	.45
9	17	2	.09	16	1	.04	59	4	.64
10	16	2	.09	34	1	.09	54	4	.58
11	17	1	.05	38	1	.10	52	4	.56
12	18	2	.10	49	1	.13	48	4	.52
13	18	2	.10	45	3	.36	45	4	.49
14	16	2	.09	149	54	24	43	4	.46
15	16	2	.09	362	135	143	42	4	.45
16	16	2	.09	195	12	6.3	41	4	.44
17	17	2	.09	125	3	1.0	40	3	.32
18	16	2	.09	94	3	.76	40	3	.32
19	15	1	.04	78	3	.63	40	3	.32
20	15	2	.08	69	3	.56	39	3	.32
21	15	2	.08	63	3	.51	38	3	.31
22	16	2	.09	59	3	.48	37	3	.30
23	16	2	.09	53	3	.43	38	3	.31
24	16	3	.13	50	3	.41	37	3	.30
25	22	3	.18	50	3	.41	37	3	.30
26	29	3	.23	49	3	.40	37	3	.30
27	27	2	.15	48	3	.39	35	3	.28
28	23	2	.12	48	3	.39	34	3	.28
29	19	2	.10	47	3	.38	41	4	.44
30	16	2	.09	46	3	.37	45	4	.49
31	17	2	.09	---	---	---	43	3	.35
TOTAL	560	---	3.62	1910	---	181.82	1304	---	11.93

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	JANUARY			FEBRUARY			MARCH		
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	42	3	.34	97	2	.52	1030	204	583
2	148	108	73	99	2	.53	789	67	143
3	591	379	655	97	2	.52	1020	169	478
4	418	98	136	92	2	.50	847	67	153
5	224	14	8.5	90	2	.49	607	34	56
6	158	4	1.7	92	2	.50	467	21	26
7	130	4	1.4	92	2	.50	424	15	17
8	114	3	.92	93	3	.75	805	99	215
9	102	2	.55	101	3	.82	2260	1360	9680
10	112	5	1.5	105	3	.85	1500	429	1940
11	171	8	5.7	101	2	.55	980	115	304
12	586	102	169	95	2	.51	1160	177	582
13	370	26	26	92	3	.75	1220	137	451
14	255	11	7.6	92	4	.99	1000	80	216
15	201	7	3.8	92	3	.75	845	72	164
16	170	4	1.8	88	3	.71	862	80	186
17	153	5	2.1	88	3	.71	721	49	95
18	143	4	1.5	90	3	.73	595	37	59
19	136	3	1.1	90	3	.73	510	30	41
20	132	3	1.1	93	8	2.0	465	22	28
21	127	3	1.0	192	70	43	419	18	20
22	121	3	.98	419	106	120	389	16	17
23	117	3	.95	419	50	57	535	54	93
24	115	3	.93	595	123	213	1230	330	1130
25	115	2	.62	500	33	45	1280	180	622
26	113	2	.61	364	16	16	980	111	294
27	111	3	.90	319	11	9.5	862	75	175
28	109	2	.59	627	129	298	751	52	105
29	105	2	.57	---	---	---	622	38	64
30	103	2	.56	---	---	---	529	28	40
31	97	3	.79	---	---	---	459	23	29
TOTAL	5589	---	1107.11	5314	---	815.91	26163	---	18006

	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	429	18	21	230	13	8.1	227	5	3.1
2	418	16	18	283	16	12	215	7	4.1
3	401	14	15	455	49	76	204	4	2.2
4	389	12	13	622	39	68	197	4	2.1
5	407	16	18	500	25	34	185	3	1.5
6	414	13	15	460	19	24	175	3	1.4
7	392	12	13	415	14	16	168	3	1.4
8	530	29	44	389	12	13	163	3	1.3
9	460	14	17	353	9	8.6	158	2	.85
10	380	10	10	354	7	6.7	148	2	.80
11	337	9	8.2	409	15	17	143	2	.77
12	308	8	6.7	417	16	18	146	2	.79
13	290	7	5.5	371	10	10	136	2	.73
14	276	6	4.5	337	8	7.3	134	2	.72
15	265	7	5.0	308	7	5.8	129	2	.70
16	249	6	4.0	300	7	5.7	123	2	.66
17	236	4	2.5	288	7	5.4	117	2	.63
18	227	4	2.5	276	6	4.5	115	2	.62
19	215	4	2.3	287	6	4.6	113	2	.61
20	207	3	1.7	267	6	4.3	109	2	.59
21	198	3	1.6	248	5	3.3	109	2	.59
22	190	2	1.0	243	5	3.3	105	3	.85
23	178	4	1.9	264	6	4.3	101	3	.82
24	170	2	.92	248	5	3.3	97	3	.79
25	178	4	1.9	232	4	2.5	92	3	.75
26	190	9	4.6	337	22	24	90	3	.73
27	168	6	2.7	409	31	35	88	4	.95
28	163	3	1.3	332	11	9.9	86	3	.70
29	160	3	1.3	296	7	5.6	76	3	.62
30	163	4	1.8	268	6	4.3	75	3	.61
31	---	---	---	243	5	3.3	---	---	---
TOTAL	8588	---	245.92	10441	---	447.8	4024	---	32.98

11482500 REDWOOD CREEK AT ORICK, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	75	3	.61	29	5	.39	18	3	.15
2	72	3	.58	28	5	.38	17	3	.14
3	68	3	.55	25	6	.41	17	3	.14
4	67	3	.54	22	4	.24	17	3	.14
5	65	5	.88	21	3	.17	17	3	.14
6	64	5	.86	21	2	.11	16	3	.13
7	61	5	.82	24	4	.26	15	3	.12
8	61	5	.82	26	6	.42	15	4	.16
9	58	5	.78	21	4	.23	14	5	.19
10	56	8	1.2	21	2	.11	14	4	.15
11	54	13	1.9	20	4	.22	14	3	.11
12	52	8	1.1	19	3	.15	14	2	.08
13	50	8	1.1	18	3	.15	14	2	.08
14	50	8	1.1	18	2	.10	14	3	.11
15	47	8	1.0	18	2	.10	14	3	.11
16	45	8	.97	17	5	.23	14	3	.11
17	43	8	.93	16	11	.48	30	3	.24
18	42	8	.91	16	8	.35	44	3	.36
19	42	7	.79	16	5	.22	197	75	40
20	41	6	.66	16	3	.13	158	35	15
21	39	6	.63	18	3	.15	111	3	.90
22	37	6	.60	18	3	.15	81	3	.66
23	36	5	.49	16	3	.13	67	3	.54
24	35	4	.38	21	3	.17	111	11	3.6
25	35	4	.38	41	4	.44	92	5	1.2
26	34	6	.55	43	4	.46	76	3	.62
27	34	7	.64	41	4	.44	75	5	1.0
28	33	8	.71	36	4	.39	864	174	565
29	32	10	.86	29	4	.31	1380	237	1020
30	32	7	.60	25	4	.27	483	23	30
31	30	6	.49	21	4	.23	---	---	---
TOTAL	1490	---	24.43	721	---	7.99	4013	---	1681.18
YEAR	70117.0		22566.69						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1976	560.00	3.62	0	4
NOVEMBER ...	1910.00	181.82	0	182
DECEMBER ...	1304.00	11.93	0	12
JANUARY 1977	5589.00	1107.11	7	1110
FEBRUARY ...	5314.00	815.91	10	826
MARCH	26163.00	18006.00	2030	20000
APRIL	8588.00	245.92	2	248
MAY	10441.00	447.80	7	455
JUNE	4024.00	32.98	0	33
JULY	1490.00	24.43	0	24
AUGUST	721.00	7.99	0	8
SEPTEMBER ..	4013.00	1681.18	221	1900
TOTAL	70117.00	22566.69	2277	24802

11482500 REDWOOD CREEK AT ORICK, CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
NOV								
15...	0810	--	428	199	230	--	--	--
JAN								
03...	1700	6.5	805	485	1050	22	34	50
12...	1100	6.5	656	134	237	--	--	--
12...	1525	8.0	595	67	108	--	--	--
FEB								
21...	1350	9.0	165	88	39	--	--	--
22...	1220	10.0	428	85	98	--	--	--
MAR								
01...	0900	--	1100	194	576	--	--	--
09...	0815	8.0	2290	1280	7910	20	29	43
09...	1615	9.5	3160	1630	13900	16	28	44
24...	0905	--	1210	293	957	9	26	41
24...	1315	8.5	1450	390	1530	18	29	43
28...	1315	10.0	751	52	105	--	--	--
MAY								
03...	1120	--	368	57	57	--	--	--
27...	1340	14.0	402	26	28	--	--	--
SEP								
28...	0920	--	635	82	141	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV							
15...	--	--	92	98	100	--	--
JAN							
03...	66	79	87	94	98	100	--
12...	--	--	90	95	98	100	--
12...	--	--	94	98	100	--	--
FEB							
21...	--	--	89	98	100	--	--
22...	--	--	98	99	100	--	--
MAR							
01...	--	--	89	93	97	98	100
09...	60	76	89	96	99	100	--
09...	60	77	88	95	99	99	100
24...	60	77	88	93	98	99	100
24...	58	71	80	86	92	98	100
28...	--	--	78	82	89	98	100
MAY							
03...	--	--	78	87	98	100	--
27...	--	--	93	96	99	100	--
SEP							
28...	--	--	95	99	100	--	--

11489500 ANTELOPE CREEK NEAR TENNANT, CA

LOCATION.--Lat 41°32'48", long 121°55'02", in NW¼NW¼ sec.25, T.43 N., R.1 W., Siskiyou County, Shasta National Forest, on right bank 2.5 mi (4.0 km) south of Tennant, 4 mi (6 km) downstream from Frog Lake, and 17 mi (27 km) southeast of town of Mount Hebron.

DRAINAGE AREA.--18.6 mi^2 (48.2 km^2).

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

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,080 ft (1,548 m), from topographic map.

REMARKS.--Records good except those for the winter period, and those for period of no gage-height record, which are fair. No storage or diversion above station.

AVERAGE DISCHARGE.--25 years, 35.8 ft^3/s (1.014 m^3/s), 25,940 acre-ft/yr (32.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft^3/s (38.2 m^3/s) Nov. 11, 1973, gage height, 5.19 ft (1.582 m), from rating curve extended above 180 ft^3/s (5.10 m^3/s) on basis of slope-area measurement at gage height 4.00 ft (1.219 m); minimum daily, 3.6 ft^3/s (0.10 m^3/s) Jan. 5, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71 ft^3/s (2.01 m^3/s) Sept. 19, gage height, 2.16 ft (0.658 m), no peak above base of 100 ft^3/s (2.83 m^3/s); maximum gage height, 2.36 ft (0.719 m) Dec. 3 (backwater from ice); minimum daily discharge, 4.9 ft^3/s (0.14 m^3/s) Jan. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	8.9	6.7	7.5	5.6	9.6	10	15	15	9.3	6.4	6.0
2	11	9.0	6.8	7.2	5.9	9.2	10	15	13	11	6.4	6.0
3	10	8.9	6.9	7.0	6.9	9.2	11	16	12	10	6.5	5.9
4	9.6	8.9	7.1	6.8	8.3	10	13	14	12	9.4	6.4	5.9
5	9.4	8.9	8.5	6.7	9.6	9.5	13	13	11	9.0	6.3	5.9
6	9.3	8.9	9.3	6.1	9.6	9.5	14	13	12	8.8	6.3	5.8
7	9.2	8.9	9.6	5.8	9.6	9.4	15	12	14	8.4	6.1	5.8
8	9.1	8.9	9.7	5.4	10	9.5	15	12	20	8.1	5.8	5.7
9	9.1	8.8	9.4	5.2	10	10	13	14	17	7.9	6.3	5.8
10	9.0	8.8	9.3	5.1	10	9.6	12	17	14	7.7	6.2	5.7
11	9.0	8.9	9.6	5.0	10	9.4	13	16	13	7.6	6.1	5.7
12	9.0	8.9	9.7	4.9	10	9.7	14	14	12	7.5	6.0	5.7
13	8.9	9.3	9.9	4.9	10	11	14	13	12	7.3	6.0	5.6
14	8.9	14	10	5.0	10	11	13	13	11	7.4	6.0	5.7
15	8.9	12	9.6	5.0	10	12	13	13	11	7.3	5.9	7.5
16	9.0	11	9.6	5.1	10	11	13	13	11	7.1	5.9	16
17	8.9	10	9.5	5.1	10	10	13	13	11	7.0	5.6	23
18	9.0	9.7	8.9	5.0	10	9.2	12	13	11	7.1	5.6	28
19	9.0	9.6	8.5	5.2	10	9.9	12	12	10	7.2	5.6	37
20	8.9	9.5	8.3	5.4	10	10	12	12	10	7.0	5.5	15
21	8.9	9.5	8.3	5.6	12	11	12	12	10	6.9	5.7	9.7
22	8.9	9.4	8.7	5.7	10	12	12	13	10	6.8	5.5	8.5
23	9.0	9.3	8.8	5.6	10	12	12	15	9.8	6.7	5.5	8.0
24	9.0	9.3	8.3	5.4	9.8	11	12	13	9.8	6.6	6.2	8.6
25	9.2	9.3	9.1	5.2	9.7	11	14	16	9.6	6.6	7.5	7.7
26	9.1	9.1	9.8	5.2	9.6	11	13	24	9.5	6.7	7.1	8.2
27	9.0	7.4	8.9	5.3	9.6	11	12	18	9.5	6.6	6.6	9.7
28	9.0	6.6	8.5	5.4	10	10	12	17	9.4	6.6	6.5	29
29	8.9	6.4	8.3	5.4	---	11	12	15	9.4	6.6	6.3	19
30	8.9	6.5	8.0	5.5	---	10	14	14	9.3	6.5	6.3	13
31	8.9	---	7.8	5.5	---	10	---	14	---	6.4	6.2	---
TOTAL	283.1	274.6	271.4	173.2	266.2	318.7	380	444	348.3	235.1	190.3	329.1
MEAN	9.13	9.15	8.75	5.59	9.51	10.3	12.7	14.3	11.6	7.58	6.14	11.0
MAX	11	14	10	7.5	12	12	15	24	20	11	7.5	37
MIN	8.9	6.4	6.7	4.9	5.6	9.2	10	12	9.3	6.4	5.5	5.6
AC-FT	562	545	538	344	528	632	754	881	691	466	377	653

CAL YR 1976 TOTAL 5733.6 MEAN 15.7 MAX 58 MIN 6.4 AC-FT 11370
WTR YR 1977 TOTAL 3514.0 MEAN 9.63 MAX 37 MIN 4.9 AC-FT 6970

NOTE.--No gage-height record May 28 to July 12.

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, on right bank 0.7 mi (1.1 km) downstream from John C. Boyle powerplant, 8 mi (13 km) downstream from Spencer Creek, and 8.5 mi (13.7 km) southwest of Keno.

DRAINAGE AREA.--4,080 mi^2 (10,570 km^2), 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) above mean sea level (levels by Pacific Power and Light Co.).

REMARKS.--Records good. Flow regulated by Upper Klamath Lake (station 11507000). Large diurnal fluctuation caused by John C. Boyle powerplant and 2 powerplants below Upper Klamath Lake. Diversions for irrigation above station.

AVERAGE DISCHARGE.--18 years, 1,876 ft^3/s (53.13 m^3/s), 1,359,000 acre-ft/yr (1.68 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft^3/s (312 m^3/s) Mar. 5, 1972, gage height, 9.33 ft (2.844 m); minimum, 283 ft^3/s (8.01 m^3/s) Feb. 17, 1968; minimum daily, 317 ft^3/s (8.98 m^3/s) July 25, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,840ft^3/s (80.4 m^3/s) Nov. 3-5, 11, 12, gage height, 5.72 ft (1.743 m); minimum, 336 ft^3/s (9.52 m^3/s) many days during June through September; minimum daily, 340 ft^3/s (9.63 m^3/s) July 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1520	2540	2780	1500	1290	730	585	772	615	650	656	700
2	1510	2500	2660	1210	1290	683	625	766	600	610	661	694
3	1510	2800	2420	1650	1200	635	625	865	645	610	656	650
4	1510	2810	2340	1500	1210	595	630	859	600	615	656	656
5	1520	2820	2330	1490	1220	590	630	846	590	610	661	656
6	1520	2810	2020	1540	1200	590	678	934	590	748	661	656
7	1710	2810	1820	1500	1160	672	672	934	600	790	661	650
8	1480	2810	1780	2140	1250	678	672	934	605	790	661	694
9	1680	2810	1780	2590	1120	865	718	941	610	683	661	694
10	1480	2810	1760	2610	1160	683	718	941	610	742	661	650
11	1680	2810	1770	2430	1150	635	808	941	656	431	661	650
12	1480	2810	1770	1860	1100	635	808	948	1140	343	661	650
13	1680	2810	1770	1450	1100	635	796	852	990	343	656	650
14	1480	2810	1530	1430	1090	667	760	934	969	340	661	656
15	1710	2810	1530	1430	1090	540	718	941	610	610	661	661
16	1500	2810	1530	1410	1050	540	718	941	565	700	522	826
17	1680	2810	1540	1420	1050	545	766	934	565	605	522	913
18	1480	2810	1540	1410	1050	540	766	941	560	565	522	913
19	2050	2810	1550	1430	1050	635	730	941	560	694	522	1000
20	1500	2810	1540	1390	1050	730	730	839	560	700	522	1120
21	1480	2810	1540	1310	1050	630	724	927	560	742	527	1140
22	1470	2810	1540	1290	1040	630	718	927	605	742	522	1420
23	1780	2810	1540	1310	1060	635	760	700	605	689	513	1110
24	1470	2810	1530	1310	1010	630	760	872	605	694	610	927
25	1680	2810	1540	1330	962	625	760	872	645	694	656	969
26	1470	2800	1510	1400	859	635	754	872	645	736	650	1150
27	1740	2800	1490	1310	865	630	754	808	645	650	650	1220
28	2010	2810	1210	1330	820	630	766	872	640	650	650	802
29	2220	2810	1500	1300	---	630	766	872	689	700	650	364
30	2380	2810	1500	1290	---	580	772	694	645	661	645	808
31	2430	---	1250	1290	---	585	---	650	---	656	650	---
TOTAL	51810	83700	53910	47860	30546	19663	21687	27070	19524	19793	19228	24649
MEAN	1671	2790	1739	1544	1091	634	723	873	651	638	620	822
MAX	2430	2820	2780	2610	1290	865	808	948	1140	790	661	1420
MIN	1470	2500	1210	1210	820	540	585	650	560	340	513	364
AC-FT	102800	166000	106900	94930	60590	39000	43020	53690	38730	39260	38140	48890

CAL YR 1976 TOTAL 581379 MEAN 1588 MAX 2820 MIN 364 AC-FT 1153000
WTR YR 1977 TOTAL 419440 MEAN 1149 MAX 2820 MIN 340 AC-FT 832000

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, 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 at mean sea level (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, 46,550 acre-ft (57.4 hm³) Jan. 11, elevation, 2,607.18 ft (794.668 m); minimum 40,949 acre-ft (50.5 hm³) Sept. 30, elevation, 2,601.34 ft (792.888 m).

11516510 IRON GATE RESERVOIR NEAR HORNBROOK.--Lat 41°55'58", long 122°26'06", in SW¼SW¼ sec.9, T.47 N., R.5 W., Siskiyou County, 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 at mean sea level (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, 59,626 acre-ft (73.5 hm³) Nov. 4, elevation, 2,328.84 ft (709.830 m); minimum, 55,032 acre-ft (67.9 hm³) May 31, elevation, 2,324.03 ft (708.364 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)a	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet)a	Contents (acre-feet)	Change in contents (acre-feet)
	11511400 COPCO LAKE			11516510 IRON GATE RESERVOIR		
Sept. 30	2604.86	44285	--	2325.60	56491	--
Oct. 31	2603.96	43420	-865	2328.27	59061	+2570
Nov. 30	2602.49	42027	-1393	2328.52	59309	+248
Dec. 31	2603.43	43916	+889	2326.15	57010	-2299
CAL YR 1976	--	--	+1407	--	--	-2328
Jan. 31	2605.85	45245	+2329	2326.15	57010	0
Feb. 28	2603.16	42659	-2586	2325.00	55928	-1082
Mar. 31	2603.49	42973	+314	2325.03	55956	+28
Apr. 30	2605.17	45584	+2611	2326.33	57183	+1227
May 31	2606.54	45920	+336	2324.03	55032	-2151
June 30	2606.30	45685	-235	2326.24	57096	+2064
July 31	2606.41	45793	+108	2326.08	56943	-153
Aug. 31	2604.80	44227	-1566	2326.27	57125	+182
Sept. 30	2601.34	40949	-3278	2324.77	55715	-1410
WTR YR 1977	--	--	-3336	--	--	-776

a Elevation at 0800.

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, on left bank 0.1 mi (0.2 km) downstream from Bogus Creek, 0.6 mi (1.0 km) downstream from Iron Gate Dam, and 5.9 mi (9.5 km) northeast of Hornbrook.

DRAINAGE AREA.--4,630 mi^2 (11,990 km^2), 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) above mean sea level (levels by Pacific Power and Light Co.).

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake, capacity, 523,700 acre-ft (646 hm^3), Iron Gate Reservoir (station 11516510), other smaller reservoirs, and diversions above station.

AVERAGE DISCHARGE.--17 years, 2,254 ft^3/s (63.83 m^3/s), 1,633,000 acre-ft/yr (2.01 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft^3/s (833 m^3/s) Dec. 22, 1964, gage height, 13.63 ft (4.154 m), from rating curve extended above 15,000 ft^3/s (425 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 647 ft^3/s (18.3 m^3/s) Oct. 30, Nov. 6, 1960, Sept. 24, Oct. 1, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,120 ft^3/s (88.4 m^3/s) Nov. 14, 20, gage height, 5.33 ft (1.625 m); minimum daily, 706 ft^3/s (20.0 m^3/s) Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1610	2470	2940	1490	1480	727	729	1020	789	720	716	709
2	1610	2810	2880	1490	1400	723	728	1020	753	722	715	708
3	1600	2950	2580	1450	1330	738	728	1010	740	720	725	708
4	1600	3050	2460	1410	1320	735	728	1000	728	724	726	708
5	1790	3030	2430	1480	1330	723	728	1000	730	719	726	708
6	1790	3020	2340	1550	1330	719	728	1010	732	712	725	708
7	1800	3020	2040	1550	1330	723	726	1010	734	714	728	712
8	1790	3010	1990	1640	1330	723	729	1000	728	717	722	706
9	1800	3020	1980	1760	1330	726	729	1010	729	718	719	707
10	1800	3040	1960	1800	1330	723	730	1010	729	717	716	708
11	1800	3040	1970	2850	1320	722	731	1010	721	717	716	708
12	1800	3040	2000	2600	1320	723	730	1010	716	725	717	711
13	1800	3040	1920	2210	1320	722	727	1010	778	724	719	714
14	1800	3080	1760	1830	1330	722	727	1010	886	717	720	711
15	1800	3070	1750	1740	1330	721	728	1020	886	720	718	723
16	1800	3050	1750	1690	1330	727	728	1020	796	720	719	967
17	1800	3050	1750	1640	1330	724	762	1020	719	718	718	1330
18	1800	3050	1740	1550	1320	724	873	1020	719	720	713	1330
19	1800	3050	1740	1510	1320	723	848	1020	719	722	712	1340
20	1800	3080	1730	1520	1330	723	834	1020	715	723	715	1340
21	1800	3010	1660	1520	1330	723	798	1010	716	722	715	1340
22	1800	2970	1570	1520	1330	723	792	1020	721	723	715	1340
23	1800	2960	1570	1520	1330	727	791	1030	720	723	713	1340
24	1800	2960	1560	1520	1320	723	790	1020	722	723	716	1350
25	1800	2960	1550	1520	1330	723	799	1020	722	723	720	1340
26	1800	2950	1550	1520	1340	723	803	1020	723	724	718	1330
27	1800	2940	1550	1520	1340	723	798	1020	722	721	718	1330
28	1800	2930	1520	1500	1340	720	784	1020	723	712	713	1360
29	2170	2960	1490	1480	---	719	731	1020	718	713	712	1380
30	2440	2960	1500	1480	---	726	779	1010	718	715	709	1350
31	2430	---	1490	1480	---	731	---	1010	---	714	710	---
TOTAL	56630	89570	58720	51340	37420	22452	22836	31450	22252	22302	22244	30416
MEAN	1827	2986	1894	1656	1336	724	761	1015	742	719	718	1014
MAX	2440	3080	2940	2850	1480	738	873	1030	886	725	728	1380
MIN	1600	2470	1490	1410	1320	719	726	1000	715	712	709	706
AC-FT	112300	177700	116500	101800	74220	44530	45300	62380	44140	44240	44120	60330

CAL YR 1976 TOTAL 671773 MEAN 1835 MAX 3440 MIN 709 AC-FT 1332000
WTR YR 1977 TOTAL 467632 MEAN 1281 MAX 3080 MIN 706 AC-FT 927500

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to current year.
CHEMICAL ANALYSES: Water years 1962 to current year.
WATER TEMPERATURES: Water years 1963 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1962 to current year.

INSTRUMENTATION.--Temperature recorder since October 1962.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 23.5°C Aug. 3, 4, 1977; minimum recorded, 0.5°C on many days in 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 23.5°C Aug. 3, 4; minimum recorded, 2.5°C on many days during January and February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
OCT											
14...	0945	1800	252	7.5	16.0	2	7.3	--	--	--	--
NOV											
09...	1520	3010	209	7.3	12.0	4	8.9	--	--	--	--
DEC											
07...	1000	2050	192	7.3	6.0	4	10.3	--	--	--	--
JAN											
07...	0930	1550	175	7.4	2.0	4	10.6	51	0	14	.9
FEB											
02...	1230	1320	164	7.3	5.0	5	12.2	--	--	--	--
MAR											
01...	1235	703	159	8.1	7.0	2	15.8	52	0	12	.7
APR											
13...	1015	728	200	8.4	11.0	3	14.2	--	--	--	--
MAY											
12...	0720	1010	351	8.4	12.0	1	10.8	112	0	28	1.2
JUN											
07...	0835	738	262	8.3	18.0	2	10.1	--	--	--	--
JUL											
07...	1000	713	276	8.3	20.0	2	10.1	--	--	--	--
AUG											
02...	0830	718	276	8.3	22.0	--	--	--	--	--	--
SEP											
13...	1145	718	193	8.9	--	0	10.1	59	0	17	1.0

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)
OCT											
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
09...	--	--	--	--	--	--	--	--	--	--	--
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
JAN											
07...	77	0	63	5.0	.95	--	--	--	--	.11	0
FEB											
02...	--	--	--	--	.74	.40	.60	1.0	.38	.08	--
MAR											
01...	74	0	61	2.6	.92	.20	.60	--	.14	.09	0
APR											
13...	--	--	--	--	.61	.07	1.0	1.0	.10	.05	--
MAY											
12...	136	0	112	6.6	.23	.03	.80	.83	.13	.06	200
JUN											
07...	--	--	--	--	.26	.05	.70	.75	.17	.12	--
JUL											
07...	--	--	--	--	.12	.06	.60	.66	.21	.15	--
AUG											
02...	--	--	--	--	.17	.17	.70	.87	.24	.22	--
SEP											
13...	92	0	75	4.5	--	--	--	--	--	--	100

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)
MAR										
01...	1235	6	2.9	137	.19	260	3	0	--	--
SEP										
13...	1145	10	1.8	--	--	--	5	0	0	0

DATE	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
MAR									
01...	--	--	--	--	--	.0	0	4.8	.00
SEP									
13...	0	0	30	0	10	.0	0	7.9	.00

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	15.5	13.5	11.5	9.0	6.5	4.0	3.0	4.0	3.0	6.5	5.0
2	19.0	16.5	13.0	11.5	8.5	6.5	4.0	3.0	4.0	2.5	6.0	5.5
3	18.0	16.0	13.0	11.0	8.0	7.0	4.0	3.0	4.5	3.0	6.0	5.5
4	17.5	16.0	12.5	11.5	8.0	6.0	4.5	3.0	4.5	3.0	6.5	5.0
5	17.5	15.5	12.0	11.0	7.0	6.5	4.0	3.0	4.5	3.0	7.0	5.0
6	17.5	16.0	12.0	11.0	7.0	6.5	3.5	2.5	5.0	3.5	7.0	5.5
7	17.5	15.5	11.5	10.5	7.0	6.0	4.0	3.0	5.0	3.5	5.5	5.5
8	18.0	15.0	11.5	10.5	7.0	6.0	3.5	3.0	5.0	3.5	6.5	5.5
9	17.0	15.5	11.0	10.5	6.5	6.0	3.5	2.5	5.0	3.5	6.5	5.5
10	17.5	15.5	11.0	10.5	6.5	5.0	4.0	2.5	5.5	3.5	7.0	5.5
11	16.5	15.5	11.0	10.5	6.0	5.5	4.0	3.0	5.5	4.0	7.0	6.0
12	16.5	15.0	11.0	10.5	5.5	5.0	4.0	3.0	5.5	4.0	7.0	6.0
13	16.0	15.0	11.0	10.0	6.0	5.0	4.0	3.0	5.5	4.0	7.0	6.0
14	16.0	15.0	10.5	10.0	5.5	5.0	4.0	3.0	5.5	4.0	7.0	6.0
15	16.0	15.0	10.5	10.0	5.5	4.5	4.0	2.5	5.5	4.0	7.0	6.0
16	15.5	14.5	10.5	10.0	5.5	4.5	3.5	2.5	5.5	4.0	7.5	6.0
17	16.0	14.5	10.5	10.0	5.5	4.5	3.5	2.5	6.0	4.0	7.5	6.0
18	15.5	14.0	10.5	9.5	5.5	4.5	3.5	2.5	5.5	4.5	7.0	6.5
19	15.0	14.0	10.5	10.0	5.5	4.5	3.5	2.5	5.5	4.5	8.0	6.5
20	15.0	12.5	10.5	9.5	5.5	4.5	4.0	2.5	5.5	4.0	8.0	6.5
21	15.5	13.0	10.0	9.5	5.0	4.5	4.0	2.5	5.5	4.0	8.5	6.5
22	15.0	12.0	10.0	9.0	5.0	4.0	4.0	2.5	5.5	4.0	9.0	7.0
23	14.5	12.5	10.0	9.0	4.5	3.5	4.0	2.5	5.5	4.5	7.5	6.5
24	14.0	12.5	10.0	9.0	4.5	3.5	3.5	2.5	5.5	4.0	7.5	6.5
25	14.0	13.0	10.0	9.0	4.5	3.5	4.0	2.5	5.5	4.5	8.5	6.5
26	14.0	13.0	10.0	8.5	4.0	3.5	4.0	2.5	6.5	5.0	9.0	7.0
27	14.0	12.0	9.5	8.5	4.5	3.5	3.5	2.5	6.5	5.5	8.5	7.5
28	14.0	12.0	9.0	7.0	4.5	3.5	4.0	2.5	6.0	4.5	8.5	7.0
29	14.0	12.0	9.5	7.5	4.5	3.0	3.5	2.5	---	---	8.5	7.0
30	13.5	12.0	9.0	6.5	4.5	3.5	4.0	2.5	---	---	8.5	7.0
31	13.5	12.0	---	---	4.0	3.0	4.0	3.0	---	---	8.5	7.0
MONTH	19.0	12.0	13.5	6.5	9.0	3.0	4.5	2.5	6.5	2.5	9.0	5.0

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	12.0	10.5	18.0	14.5	20.0	19.0	22.5	21.0	20.0	19.5
2	9.5	7.5	12.5	11.0	16.0	14.5	21.0	19.5	23.0	21.0	20.0	19.0
3	10.0	8.0	12.5	11.0	16.0	15.0	21.0	19.0	23.5	21.5	20.0	19.0
4	11.0	8.0	12.5	11.5	17.0	15.0	20.5	19.0	23.5	21.0	20.5	19.5
5	11.0	8.5	12.0	11.5	17.5	15.5	20.5	18.5	23.0	21.0	20.5	19.5
6	10.5	9.0	12.0	11.0	18.0	16.0	20.0	18.5	22.5	21.0	20.0	19.5
7	10.0	7.0	12.5	11.0	17.5	16.0	20.0	19.0	22.0	21.0	21.0	19.5
8	9.5	7.0	13.0	11.0	18.5	16.0	21.0	19.0	22.0	21.0	21.0	19.5
9	10.0	8.5	12.5	11.5	17.0	16.0	21.5	19.0	22.5	21.5	20.0	19.0
10	10.0	8.5	12.0	11.5	17.5	15.5	20.5	19.0	23.0	21.5	19.5	19.0
11	11.5	9.0	12.5	11.5	17.5	16.0	21.0	19.0	22.5	21.5	20.0	19.0
12	10.5	9.0	13.0	11.5	17.5	16.0	22.0	19.5	22.0	21.5	19.5	18.5
13	12.0	10.0	13.5	12.0	17.5	16.0	21.0	19.5	22.0	21.0	19.5	18.5
14	10.5	9.5	14.5	12.0	18.5	16.5	21.5	19.5	22.0	21.0	19.5	18.5
15	11.5	9.5	14.0	12.5	19.0	17.0	21.5	19.5	22.0	21.0	19.0	18.5
16	12.5	10.5	13.5	12.5	18.5	17.0	22.5	20.0	22.0	21.0	18.5	18.0
17	12.0	10.0	14.0	12.5	18.0	17.0	22.5	20.0	22.0	21.0	18.0	17.5
18	12.0	10.0	13.0	12.5	18.0	17.0	22.5	20.0	22.0	21.0	17.5	16.5
19	12.0	10.0	14.0	12.0	20.0	17.0	21.5	20.0	22.0	21.0	17.0	16.5
20	11.5	10.0	14.5	13.0	19.5	17.0	21.0	20.0	21.5	21.0	17.5	17.0
21	11.5	9.0	15.0	13.0	20.0	17.0	21.5	20.5	22.5	21.0	17.5	16.5
22	11.0	8.5	13.5	13.0	20.0	17.5	22.0	20.5	22.0	20.5	17.0	16.5
23	11.0	9.5	14.5	12.5	20.5	18.0	21.5	20.5	21.5	20.5	17.0	16.5
24	11.0	10.0	14.5	12.5	20.5	18.0	21.5	20.5	21.0	20.5	17.0	16.0
25	10.5	9.5	13.5	12.0	20.5	18.5	22.0	20.5	20.5	20.0	17.0	16.0
26	12.5	9.5	14.5	12.5	21.0	18.5	22.0	20.5	20.5	19.5	17.0	16.5
27	12.5	11.0	14.5	13.0	21.0	18.5	22.0	20.5	20.5	19.5	16.5	16.0
28	11.5	10.5	15.0	13.0	21.5	19.0	22.5	20.5	20.0	19.5	16.5	16.0
29	11.5	10.5	15.0	13.5	21.0	19.0	22.5	20.5	21.0	19.5	16.5	16.0
30	12.5	11.0	15.0	14.0	20.0	18.5	22.0	20.5	20.5	19.5	16.5	15.5
31	---	---	16.0	14.5	---	---	22.5	21.0	20.5	19.5	---	---
MONTH	12.5	7.0	16.0	10.5	21.5	14.5	22.5	18.5	23.5	19.5	21.0	15.5

11516900 LITTLE SHASTA RIVER NEAR MONTAGUE, CA

LOCATION.--Lat 41°45'11", long 122°17'42", in NW¼NW¼ sec.15, T.45 N., R.4 W., Siskiyou County, on right bank 0.5 mi (0.8 km) downstream from Dry Creek, and 12 mi (19 km) east of Montague.

DRAINAGE AREA.--48.2 mi^2 (124.8 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 3,360 ft (1,024 m), from topographic map. Prior to May 27, 1965, water-stage recorder at site 0.2 mi (0.3 km) downstream at different datum.

REMARKS.--No known diversion or regulation above station.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

AVERAGE DISCHARGE.--20 years, 19.4 ft^3/s (0.549 m^3/s), 14,060 acre-ft/yr (17.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,910 ft^3/s (167 m^3/s) Dec. 22, 1964, gage height, 12.2 ft (3.72 m) present site and datum, from slope-area measurement of maximum flow; minimum daily, 0.60 ft^3/s (0.017 m^3/s) Jan. 4, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41 ft^3/s (1.16 m^3/s) June 8, gage height, 1.63 ft (0.497 m); minimum daily, 1.9 ft^3/s (0.054 m^3/s) Nov. 27, Jan. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	3.6	2.9	3.8	2.8	4.2	5.2	11	9.8	4.9	3.3	2.6
2	6.5	3.5	3.3	3.8	3.0	4.2	5.4	9.4	9.3	5.0	3.2	2.5
3	5.3	3.4	3.6	3.8	3.3	4.0	7.2	9.9	8.9	4.6	3.6	2.5
4	4.9	3.3	3.6	3.8	3.5	3.9	12	10	8.5	4.6	3.3	2.3
5	4.7	3.3	3.6	3.8	3.8	5.2	17	8.3	8.0	4.7	3.2	2.3
6	4.6	3.3	3.6	3.6	3.9	5.4	18	8.3	8.1	4.6	3.1	2.2
7	4.5	3.3	3.6	3.5	4.0	5.0	19	8.9	17	4.4	3.1	2.2
8	4.5	3.1	3.6	3.5	4.4	5.2	18	8.1	20	4.3	3.3	2.1
9	4.4	3.1	3.6	3.3	4.1	5.5	13	10	12	4.3	3.2	2.1
10	4.4	3.1	3.6	3.2	4.2	4.0	10	28	11	4.3	3.1	2.1
11	4.2	3.2	3.6	3.2	4.4	4.0	10	27	10	4.2	3.0	2.0
12	4.2	3.1	3.6	3.0	4.7	4.1	12	26	8.9	4.2	2.9	2.1
13	4.1	3.2	3.6	2.9	5.1	4.1	13	19	7.9	4.0	2.9	2.1
14	4.1	5.6	3.6	2.8	5.2	4.3	11	14	7.5	4.0	2.8	2.0
15	4.1	6.5	3.6	2.8	5.4	4.3	11	12	6.9	3.9	2.7	2.5
16	4.1	4.5	3.6	2.7	5.3	4.4	13	14	6.5	3.8	2.7	4.1
17	3.9	3.9	3.6	2.6	5.2	4.4	11	18	6.8	3.7	2.6	2.9
18	4.0	3.6	3.6	2.6	4.7	4.6	10	19	7.7	3.7	2.6	2.8
19	3.9	3.4	3.6	2.5	4.8	4.4	10	19	7.1	3.7	2.6	4.5
20	3.9	3.3	3.8	2.3	5.0	4.6	10	15	6.3	3.8	2.5	3.5
21	3.9	3.2	3.8	2.2	5.6	5.4	10	13	6.0	3.6	2.4	3.0
22	3.9	3.1	3.8	2.2	4.5	7.2	9.2	13	5.6	3.6	2.4	2.9
23	3.8	3.1	3.8	2.1	4.3	9.1	8.8	20	5.4	3.5	2.3	3.0
24	3.8	3.0	3.8	2.0	3.9	6.7	8.5	18	5.1	3.5	3.0	4.3
25	4.3	3.1	3.8	2.0	4.0	7.2	9.0	15	5.1	3.8	3.2	3.0
26	4.1	2.5	3.8	1.9	4.3	8.0	9.4	22	4.9	4.0	3.0	2.9
27	3.9	1.9	3.8	2.0	4.2	8.8	8.4	22	4.8	3.4	2.9	3.1
28	3.8	2.0	3.8	2.2	4.8	6.0	8.2	15	4.7	3.4	2.8	5.4
29	3.7	2.3	3.8	2.3	---	5.9	7.9	13	4.6	3.4	2.7	12
30	3.6	2.7	3.8	2.6	---	5.6	8.2	12	4.6	3.5	2.7	4.4
31	3.6	---	3.8	2.7	---	5.6	---	11	---	3.4	2.6	---
TOTAL	131.8	100.2	113.0	87.7	122.4	165.3	323.4	468.9	239.0	123.8	89.7	95.4
MEAN	4.25	3.34	3.65	2.83	4.37	5.33	10.8	15.1	7.97	3.99	2.89	3.18
MAX	6.5	6.5	3.8	3.8	5.6	9.1	19	28	20	5.0	3.6	12
MIN	3.6	1.9	2.9	1.9	2.8	3.9	5.2	8.1	4.6	3.4	2.3	2.0
AC-FT	261	199	224	174	243	328	641	930	474	246	178	189

CAL YR 1976 TOTAL 6375.6 MEAN 17.4 MAX 75 MIN 1.9 AC-FT 12650
WTR YR 1977 TOTAL 2060.6 MEAN 5.65 MAX 28 MIN 1.9 AC-FT 4090

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, on right bank 0.5 mi (0.8 km) upstream from mouth, and 7 mi (11 km) north of Yreka.

DRAINAGE AREA.--793 mi^2 (2,054 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to December 1941, December 1944 to current year.

REVISED RECORDS.--WSP 1929: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 2,000 ft (610 m), from topographic map. Prior to Nov. 2, 1933, nonrecording gage at same site and datum.

REMARKS.--Records excellent. Flow partly regulated by Lake Dwinnell beginning in 1928; storage limited to 50,000 acre-ft (61.6 hm^3). Many diversions above station for irrigation.

AVERAGE DISCHARGE.--40 years, 186 ft^3/s (5.268 m^3/s), 134,800 acre-ft/yr (166 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft^3/s (609 m^3/s) Dec. 22, 1964, gage height, 12.92 ft (3.938 m) in gage well, 13.85 ft (4.221 m) from floodmarks, from rating curve extended above 4,100 ft^3/s (116 m^3/s) on basis of slope-area measurement of maximum flow; minimum, 3.4 ft^3/s (0.10 m^3/s) Aug. 13, 1939, when about 2 ft^3/s (0.06 m^3/s) was being diverted around gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 240 ft^3/s (6.80 m^3/s) Nov. 15, gage height, 3.60 ft (1.097 m); minimum daily, 6.0 ft^3/s (0.17 m^3/s) July 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	163	167	161	173	147	97	51	51	13	11	20
2	142	164	169	166	177	146	115	53	41	32	14	18
3	140	169	168	174	173	151	133	59	44	22	23	17
4	141	178	169	171	172	151	128	58	42	21	23	12
5	137	172	163	168	174	148	116	57	35	26	13	9.5
6	134	173	162	163	172	156	127	76	22	18	8.1	16
7	150	173	162	159	174	147	84	69	34	23	8.7	23
8	144	170	164	157	178	129	74	61	115	28	19	15
9	108	178	174	155	174	126	79	59	89	26	6.8	9.8
10	113	184	173	154	168	98	96	74	95	26	8.4	13
11	107	176	164	154	168	91	89	98	72	27	13	15
12	109	175	161	155	165	93	70	144	84	30	15	13
13	110	174	161	158	164	87	75	109	80	36	21	9.2
14	122	188	161	159	164	89	64	85	61	32	14	9.7
15	123	208	161	160	164	94	59	79	46	37	16	9.9
16	120	190	162	169	163	87	59	71	46	21	11	18
17	124	183	161	165	161	91	59	70	40	15	11	21
18	128	181	160	162	157	72	82	71	27	13	12	22
19	133	180	158	161	156	67	83	72	61	10	11	23
20	132	176	156	160	158	76	51	79	41	10	18	29
21	136	173	155	161	173	64	48	69	33	8.5	24	32
22	142	174	155	164	177	58	47	60	36	6.1	23	30
23	140	173	157	167	167	63	43	139	33	8.1	21	35
24	164	174	158	167	166	76	43	141	27	6.0	23	39
25	161	173	159	166	165	77	45	148	22	15	27	57
26	160	170	160	164	164	68	41	139	19	24	33	60
27	157	167	159	163	150	63	37	135	11	22	30	50
28	159	167	158	162	143	71	48	100	7.7	13	22	60
29	161	166	159	161	---	78	65	87	7.1	9.0	16	129
30	164	168	164	162	---	77	48	74	6.1	8.3	14	111
31	162	---	163	166	---	89	---	62	---	7.3	27	---
TOTAL	4225	5260	5023	5034	4660	3030	2205	2649	1327.9	593.3	537.0	926.1
MEAN	136	175	162	162	166	97.7	73.5	85.5	44.3	19.1	17.3	30.9
MAX	164	208	174	174	178	156	133	148	115	37	33	129
MIN	102	163	155	154	143	58	37	51	6.1	6.0	6.8	9.2
AC-FT	8380	10430	9960	9980	9240	6010	4370	5250	2630	1180	1070	1840

CAL YR 1976 TOTAL 51142.0 MEAN 140 MAX 511 MIN 8.0 AC-FT 101400
WTR YR 1977 TOTAL 35470.3 MEAN 97.2 MAX 208 MIN 6.0 AC-FT 70360

11517500 SHASTA RIVER NEAR YREKA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1958 to current year.
CHEMICAL ANALYSES: Water years 1959 to current year.
WATER TEMPERATURES: Water years 1965 to current year.
SEDIMENT RECORDS: Water years 1955-56, 1958-62.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1965 to current year.

INSTRUMENTATION.--Temperature recorder since June 1965.

REMARKS.--Clock stopped Oct. 15 to Nov. 3, and Nov. 13 to Dec. 6; range in temperature, 9.0°C to 15.0°C, and 3.5°C to 10.5°C, respectively.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 31.5°C July 15, 16, 1972; minimum recorded, 0.0°C Jan. 30, 31, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 30.0°C June 29; minimum recorded, 0.5°C Jan. 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
NOV 09...	1610	183	466	8.4	10.0	2	11.4
JAN 06...	1545	161	510	8.2	3.0	5	12.8
MAR 01...	1320	146	492	8.4	9.0	2	12.3
MAY 12...	0800	152	746	8.2	12.0	3	9.6
JUL 07...	0930	22	690	8.2	20.0	4	9.5
SEP 13...	1230	9.5	658	8.8	21.0	1	9.9

DATE	TIME	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED BORON (B) (UG/L)
MAY 12...	0800	285	0	66	1.7	449	0	368	34	800

11517500 SHASTA RIVER NEAR YREKA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	16.0	---	---	---	---	4.5	4.0	7.0	5.0	10.0	7.5
2	17.5	13.5	---	---	---	---	4.5	4.0	6.5	4.5	8.0	7.0
3	17.0	13.0	---	---	---	---	5.5	3.5	7.0	4.5	8.0	6.5
4	16.5	12.5	12.0	10.0	---	---	5.0	4.0	7.5	5.0	10.0	6.0
5	17.0	12.5	11.0	9.0	---	---	5.0	2.5	7.5	6.0	10.5	6.0
6	17.5	13.0	11.0	9.0	---	---	3.0	1.5	8.5	6.5	10.5	7.5
7	18.0	13.5	10.0	8.5	5.5	4.5	2.0	1.0	9.0	6.5	9.0	8.0
8	18.5	14.0	10.0	8.5	6.0	5.0	1.5	1.0	9.5	8.0	10.0	7.0
9	18.0	13.5	10.0	8.5	6.0	5.0	2.0	0.5	9.0	6.5	11.5	7.5
10	17.0	13.0	10.5	8.5	5.5	4.5	3.5	2.0	9.5	7.0	11.5	7.0
11	17.0	13.0	11.0	9.5	5.0	4.0	4.0	2.5	10.0	7.5	10.5	7.0
12	16.0	12.0	10.5	9.0	5.0	3.5	5.0	4.0	10.0	7.5	11.0	7.0
13	15.5	11.5	---	---	5.0	4.0	5.5	5.0	10.0	7.5	8.5	5.5
14	15.5	11.5	---	---	5.0	4.0	5.5	5.0	10.5	7.5	8.5	5.5
15	---	---	---	---	5.0	4.0	5.0	4.5	10.5	7.5	8.0	6.0
16	---	---	---	---	5.0	4.0	5.0	4.0	10.5	8.0	10.0	5.0
17	---	---	---	---	4.5	3.5	5.0	4.0	10.5	8.0	9.0	6.0
18	---	---	---	---	4.5	3.0	4.5	4.0	10.5	7.5	10.5	7.0
19	---	---	---	---	4.0	3.0	5.0	4.0	10.5	7.5	13.5	8.5
20	---	---	---	---	4.0	3.0	5.5	3.5	9.5	8.5	14.0	8.0
21	---	---	---	---	4.0	3.0	6.5	5.0	9.0	8.5	14.5	8.0
22	---	---	---	---	4.5	3.0	7.0	5.5	9.5	7.5	15.5	9.0
23	---	---	---	---	5.5	4.0	6.5	5.0	9.5	7.5	12.0	9.5
24	---	---	---	---	5.0	3.5	6.5	4.5	9.0	6.5	11.0	8.5
25	---	---	---	---	6.0	4.5	5.5	4.0	9.0	7.0	13.0	7.5
26	---	---	---	---	5.0	4.0	5.0	3.5	9.5	7.5	14.0	8.0
27	---	---	---	---	5.0	4.0	5.5	3.5	11.5	8.0	13.0	9.5
28	---	---	---	---	5.0	3.5	5.5	3.5	10.5	7.5	11.0	7.5
29	---	---	---	---	5.0	4.0	5.5	3.5	---	---	11.0	7.0
30	---	---	---	---	6.0	4.5	5.5	3.5	---	---	10.5	7.0
31	---	---	---	---	4.5	4.0	7.0	5.0	---	---	10.5	7.0
MONTH	---	---	---	---	6.0	3.0	7.0	0.5	11.5	4.5	15.5	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	8.5	17.0	13.5	24.0	17.5	25.5	21.5	28.5	22.5	24.5	16.5
2	13.5	8.0	17.0	12.5	24.0	15.5	27.0	19.5	29.5	23.0	25.5	18.0
3	15.5	8.5	17.5	12.5	22.5	16.5	26.0	17.5	30.0	23.0	25.0	17.5
4	17.0	10.0	16.5	11.5	26.0	17.0	24.0	18.0	29.0	22.5	26.0	19.0
5	17.5	11.0	14.5	11.0	28.0	19.0	24.5	16.0	28.5	22.0	26.5	19.5
6	18.0	11.0	14.5	9.5	27.0	21.5	26.5	16.5	28.0	21.0	26.5	19.0
7	17.5	12.0	17.0	10.5	26.5	21.5	28.0	19.0	28.0	22.0	25.5	19.0
8	15.0	13.0	15.5	10.5	26.0	20.0	27.0	20.0	27.0	20.5	23.0	17.5
9	14.0	11.5	14.5	12.0	21.5	19.5	27.5	19.5	27.5	21.0	23.5	16.5
10	15.0	9.0	14.5	11.5	21.0	18.5	27.0	18.5	28.5	21.5	24.5	17.0
11	17.0	11.0	16.0	11.5	23.0	18.0	28.5	19.0	29.0	21.5	24.5	18.0
12	18.0	11.0	17.5	12.5	25.5	18.0	28.0	20.5	27.0	22.5	24.0	17.0
13	17.5	13.0	19.5	13.0	25.5	19.0	27.0	18.5	28.0	22.0	23.0	17.0
14	17.0	10.5	19.0	13.5	25.5	18.5	28.0	19.0	27.0	21.0	22.5	17.0
15	18.0	11.5	18.5	13.0	26.5	18.0	29.0	20.0	28.0	20.5	18.5	16.0
16	17.5	12.5	16.0	12.0	27.0	18.5	29.5	21.0	28.0	21.0	17.5	14.5
17	16.5	10.5	16.5	11.5	23.0	20.0	29.0	21.0	27.0	21.5	16.5	14.0
18	15.5	10.5	14.5	12.5	23.5	19.0	28.5	21.0	25.5	20.0	16.0	14.0
19	16.5	10.0	19.5	11.5	25.5	19.0	29.0	20.5	26.5	20.0	18.5	13.5
20	17.0	11.0	21.5	14.5	23.0	18.0	28.5	21.0	24.0	20.5	19.0	14.0
21	17.5	12.0	21.5	15.5	27.5	18.5	28.0	21.0	26.5	20.5	19.0	13.0
22	17.0	11.0	17.5	14.5	28.5	20.0	30.0	21.0	26.0	18.5	18.0	11.5
23	15.0	12.0	16.0	13.5	28.5	20.0	30.0	22.0	25.5	19.5	16.0	13.5
24	15.0	11.5	19.5	14.0	28.5	19.5	29.0	22.0	22.5	19.0	18.5	13.0
25	14.5	11.5	17.5	15.5	29.0	20.0	27.5	21.0	19.5	17.5	19.5	13.5
26	18.0	9.5	19.5	14.5	29.0	20.5	28.5	20.0	20.5	15.5	20.0	14.5
27	19.5	11.5	19.0	12.5	29.0	21.0	28.5	19.5	23.0	16.0	17.0	15.0
28	16.5	13.0	20.5	12.5	29.0	19.5	27.5	19.0	24.5	18.0	17.0	15.0
29	17.0	13.0	22.0	14.0	30.0	21.0	28.0	19.0	25.0	18.0	17.5	14.0
30	18.5	13.0	21.5	15.5	26.5	21.5	29.0	19.5	24.0	18.5	17.0	12.5
31	---	---	25.0	17.0	---	---	30.0	21.0	24.0	17.0	---	---
MONTH	19.5	8.0	25.0	9.5	30.0	15.5	30.0	16.0	30.0	15.5	26.5	11.5

11519500 SCOTT RIVER NEAR FORT JONES, CA

LOCATION.--Lat 41°38'27", long 123°00'50", in NE¼NE¼ sec.29, T.44 N., R.10 W., Siskiyou County, on right bank 1.8 mi (2.9 km) upstream from Snow Creek, and 9.0 mi (14.5 km) west of Fort Jones.

DRAINAGE AREA.--653 mi^2 (1,691 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1941 to current year. Monthly discharge only October to December 1941, published in WSP 1315-B.

REVISED RECORDS.--WSP 1445: 1942-43(M), 1946(M), 1948. WSP 1715: 1951-52(M). WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,623.80 ft (799.734 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1966, water-stage recorder 400 ft (122 m) downstream at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good. Diversions for irrigation of about 30,000 acres (121 km^2) above station.

AVERAGE DISCHARGE.--36 years, 663 ft^3/s (18.78 m^3/s), 480,300 acre-ft/yr (592 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,600 ft^3/s (1,550 m^3/s) Dec. 22, 1964, gage height, 25.34 ft (7.724 m) from floodmarks, site and datum then in use, from rating curve extended above 15,000 ft^3/s (425 m^3/s) on basis of slope-area measurement at 21.40 ft (6.523 m); minimum daily, 54 ft^3/s (0.15 m^3/s) Aug. 31, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 290 ft^3/s (8.21 m^3/s) June 10, gage height, 6.05 ft (1.844 m), no peak above base of 2,000 ft^3/s (56.6 m^3/s); minimum daily, 5.4 ft^3/s (0.15 m^3/s) Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	82	91	78	86	104	63	70	174	63	19	5.6
2	71	82	88	82	88	103	60	123	189	63	17	5.6
3	78	81	88	85	86	96	59	142	179	60	17	5.5
4	78	80	88	83	86	95	56	140	171	57	16	6.3
5	78	80	86	82	80	93	50	120	173	54	15	6.9
6	83	80	84	81	87	92	53	115	190	50	15	7.2
7	86	80	82	78	88	90	52	108	206	47	15	6.3
8	90	80	83	72	89	91	50	107	234	44	15	6.2
9	89	80	86	73	96	102	51	104	231	40	12	5.8
10	85	78	86	80	101	108	56	100	262	40	12	6.3
11	84	78	86	78	107	112	56	105	253	39	12	6.3
12	84	78	86	80	106	110	53	119	227	38	11	7.0
13	84	81	86	79	105	101	52	111	212	37	10	7.8
14	83	88	86	78	103	94	52	108	203	35	9.5	9.4
15	76	88	86	78	100	77	54	105	187	32	9.2	6.3
16	76	89	86	78	98	76	55	109	163	30	8.7	9.4
17	80	95	86	79	96	75	58	113	143	29	9.0	15
18	79	95	84	80	92	77	58	107	134	27	8.7	15
19	73	95	84	80	89	74	53	102	134	24	7.0	15
20	72	95	84	82	90	75	54	98	130	23	8.1	15
21	70	93	85	82	96	70	54	92	125	23	7.3	15
22	70	93	84	82	111	67	53	94	120	23	6.3	15
23	71	93	82	83	121	64	54	112	112	22	6.1	14
24	80	93	80	84	122	66	56	134	102	22	6.5	14
25	80	93	80	86	120	69	58	142	89	22	6.1	14
26	81	93	80	86	114	72	50	137	80	22	6.7	15
27	82	91	80	85	109	68	58	166	71	21	7.3	14
28	82	91	80	84	106	66	58	179	61	21	7.0	18
29	82	92	80	84	---	65	57	166	61	20	7.1	18
30	82	91	80	83	---	65	59	161	60	20	6.6	16
31	82	---	79	84	---	66	---	163	---	20	5.4	---
TOTAL	2461	2608	2606	2509	2772	2583	1652	3752	4676	1068	318.6	320.9
MEAN	79.4	86.9	84.1	80.9	99.0	83.3	55.1	121	156	34.5	10.3	10.7
MAX	90	95	91	86	122	112	63	179	262	63	19	18
MIN	70	78	79	72	80	64	50	70	60	20	5.4	5.5
AC-FT	4880	5170	5170	4980	5500	5120	3280	7440	9270	2120	632	637

CAL YR 1976	TOTAL	114755.0	MEAN	314	MAX	1660	MIN	53	AC-FT	227600
WTR YR 1977	TOTAL	27326.5	MEAN	74.9	MAX	262	MIN	5.4	AC-FT	54200

11519500 SCOTT RIVER NEAR FORT JONES, CALIF.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1959 to current year.
CHEMICAL ANALYSES: Water years 1959 to current year.
SEDIMENT RECORDS: Water years 1955-56.

REMARKS.--Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)
NOV								
10...	0945	78	277	7.9	10.5	1	11.6	--
JAN								
07...	1300	75	288	7.6	2.0	4	12.8	--
MAR								
01...	1545	103	253	8.3	9.0	0	13.6	147
MAY								
12...	1015	121	267	8.1	14.0	1	11.8	136
JUL								
06...	1430	50	275	8.1	22.0	1	12.2	--
SEP								
13...	1600	7.0	219	8.4	22.0	1	12.1	112

DATE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED BORON (B) (UG/L)
NOV								
10...	--	--	--	--	--	--	--	--
JAN								
07...	--	5.1	--	170	0	139	5.0	0
MAR								
01...	17	4.5	.2	158	0	130	3.4	0
MAY								
12...	0	4.4	.2	166	0	136	3.6	0
JUL								
06...	--	--	--	--	--	--	--	--
SEP								
13...	5	4.6	.2	131	0	107	4.3	0

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, Klamath National Forest, on left bank 0.4 mi (0.6 km) upstream from Bittenbender Creek, 1.4 mi (2.3 km) downstream from Grider Creek, and 2.2 mi (3.5 km) west of Seiad Valley.

DRAINAGE AREA.--6,940 mi^2 (17,975 km^2), approximately (not including Lost River or Lower Klamath Lake basins).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1912 to September 1925, July 1951 to current year. Monthly discharges only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m) from river-profile map. November 1912 to June 1925, nonrecording gage at site 3.5 mi (5.6 km) upstream at different datum.

REMARKS.--Records excellent. Flow regulated considerably by reservoirs and powerplants above station. Large diversions above station for irrigation.

AVERAGE DISCHARGE.--39 years, 4,125 ft^3/s (116.8 m^3/s), 2,989,000 acre-ft/yr (3.69 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165,000 ft^3/s (4,670 m^3/s) Dec. 23, 1964, gage height, 33.75 ft (10.287 m) from floodmarks, from rating curve extended above 49,000 ft^3/s (1,390 m^3/s) on basis of slope-area measurements at gage heights 20.1 ft (6.13 m) and 29.2 ft (8.90 m); minimum daily, 320 ft^3/s (9.06 m^3/s) Nov. 25, 1917.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,630 ft^3/s (103 m^3/s) Nov. 15, gage height, 5.71 ft (1.740 m); minimum daily, 792 ft^3/s (22.4 m^3/s) Sept. 10-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1900	2810	3380	1920	1870	1660	1070	1250	1530	932	806	817
2	1980	2960	3380	1950	1880	1220	1080	1500	1260	940	806	818
3	1970	3270	3170	1980	1730	1200	1100	1600	1220	932	806	811
4	1960	3400	2940	1900	1720	1200	1130	1560	1190	904	825	806
5	2010	3430	2860	1850	1720	1170	1170	1510	1190	911	808	806
6	2130	3430	2840	1960	1730	1160	1180	1480	1200	897	800	806
7	2140	3420	2590	1940	1730	1170	1180	1480	1230	894	810	806
8	2160	3410	2420	1950	1740	1240	1210	1450	1290	886	820	807
9	2140	3410	2420	2100	1760	1350	1160	1430	1340	892	825	794
10	2120	3440	2400	2190	1760	1260	1130	1450	1400	884	804	792
11	2120	3460	2370	2660	1740	1200	1120	1470	1330	883	799	792
12	2120	3440	2380	3210	1740	1190	1100	1540	1250	878	799	792
13	2120	3450	2410	2770	1740	1160	1120	1550	1260	880	799	796
14	2120	3580	2240	2380	1740	1140	1110	1470	1360	883	806	803
15	2120	3610	2180	2190	1740	1120	1100	1460	1360	870	806	813
16	2120	3570	2170	2060	1740	1100	1110	1470	1300	868	806	838
17	2120	3530	2170	2060	1740	1090	1110	1470	1140	859	799	1250
18	2120	3520	2170	1990	1740	1080	1150	1460	1090	848	799	1470
19	2120	3510	2150	1900	1720	1020	1230	1460	1080	845	799	1490
20	2120	3490	2150	1890	1730	1020	1190	1460	1080	834	799	1500
21	2120	3500	2110	1900	1890	1030	1150	1460	1050	833	808	1500
22	2120	3440	2030	1910	1910	1030	1110	1450	1040	827	813	1500
23	2120	3400	1990	1910	1880	1100	1100	1590	1030	827	812	1500
24	2140	3410	1980	1910	1860	1100	1110	1630	1000	826	806	1540
25	2180	3400	1970	1910	1830	1100	1130	1620	990	820	835	1550
26	2180	3400	1970	1890	1820	1070	1140	1690	969	841	855	1550
27	2170	3380	1970	1880	1810	1060	1120	1720	954	845	852	1540
28	2170	3350	1970	1890	1840	1060	1120	1680	925	829	840	1700
29	2220	3370	1930	1860	---	1060	1120	1620	918	813	830	1990
30	2730	3380	1920	1850	---	1060	1100	1580	911	806	813	1780
31	2810	---	1920	1850	---	1060	---	1560	---	806	813	---
TOTAL	66670	102170	72550	63610	49850	35480	33950	47120	34887	26793	25198	34757
MEAN	2151	3406	2340	2052	1780	1145	1132	1520	1163	864	813	1159
MAX	2810	3610	3380	3210	1910	1660	1230	1720	1530	940	855	1990
MIN	1900	2810	1920	1850	1720	1020	1070	1250	911	806	799	792
AC-FT	132200	202700	143900	126200	98880	70370	67340	93460	69200	53140	49980	68940

CAL YR 1976 TOTAL 1007821 MEAN 2754 MAX 8070 MIN 905 AC-FT 1999000
WTR YR 1977 TOTAL 593035 MEAN 1625 MAX 3610 MIN 792 AC-FT 1176000

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-56, 1959 to current year.
CHEMICAL ANALYSES: Water years 1959-66.
WATER TEMPERATURES: Water years 1964 to current year.
SEDIMENT RECORDS: Water years 1955-56.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1963 to current year.

INSTRUMENTATION.--Temperature recorder since October 1963.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 29.5°C July 26, 1970; minimum recorded, 0.5°C on several days in 1967, 1968, 1971-73, and 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 27.0°C Aug. 3; minimum recorded, 0.5°C Jan. 8, 9.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	18.0	13.5	12.5	6.5	6.5	3.0	2.5	4.5	3.0	7.0	6.0
2	19.0	17.5	13.5	12.5	6.5	6.0	3.0	2.0	4.0	2.5	6.0	5.5
3	17.5	15.5	12.5	12.0	6.5	6.0	3.5	2.5	4.0	2.0	6.5	6.0
4	17.5	15.0	12.0	11.5	6.5	6.0	4.0	3.5	4.0	2.5	7.5	5.5
5	17.5	15.0	11.5	11.0	6.5	5.5	4.0	2.5	4.5	3.0	7.5	6.0
6	18.0	15.5	11.5	11.0	6.0	5.5	2.5	1.5	5.5	4.0	7.5	7.0
7	18.5	16.0	11.0	11.0	6.0	5.5	2.0	1.0	5.5	4.0	7.5	7.0
8	18.5	16.0	11.0	10.5	6.0	5.0	1.5	0.5	6.5	4.5	9.0	7.5
9	18.0	15.5	10.5	10.5	6.5	5.5	2.0	0.5	6.5	5.0	8.0	7.0
10	17.0	15.0	11.0	10.5	5.5	5.0	3.0	1.5	6.5	4.5	8.5	6.5
11	17.0	15.0	11.0	11.0	5.5	4.5	3.5	2.0	6.5	5.0	8.0	6.5
12	16.5	14.5	11.0	10.5	5.0	4.0	3.5	2.5	6.5	4.5	7.5	7.0
13	16.5	14.0	10.0	9.5	5.0	4.5	4.0	3.5	6.5	5.0	7.5	6.5
14	16.0	14.0	10.0	10.0	5.0	4.0	4.0	3.5	6.5	4.5	7.5	6.5
15	16.0	13.5	11.0	10.0	5.0	4.0	4.0	3.0	6.5	5.0	7.0	6.5
16	15.5	13.5	11.5	11.0	5.0	4.0	3.5	2.5	7.0	5.0	8.5	6.0
17	15.0	13.5	11.5	11.0	4.5	3.5	3.0	2.5	7.0	5.0	8.5	6.5
18	14.5	12.5	11.0	10.5	4.0	3.0	3.5	2.5	7.0	5.0	8.0	7.5
19	14.5	12.5	10.5	10.0	3.5	2.5	3.0	2.0	7.0	5.0	10.0	8.0
20	14.5	12.5	10.0	9.5	3.5	2.5	3.0	2.0	6.5	5.0	10.5	8.5
21	14.5	12.5	10.0	9.0	3.5	2.5	3.5	2.5	6.0	4.5	10.5	8.5
22	14.5	12.5	9.5	9.0	4.0	3.0	4.0	3.0	6.0	4.5	11.5	9.5
23	14.5	13.0	9.0	9.0	4.5	3.5	4.0	2.5	6.0	5.0	10.5	9.0
24	13.0	12.5	9.0	8.5	3.5	3.0	3.5	2.5	6.0	4.5	9.5	8.0
25	13.0	12.0	9.0	8.5	4.5	3.0	3.0	2.0	6.5	5.0	10.0	7.5
26	13.0	11.5	8.5	7.5	4.5	4.0	3.0	1.5	7.0	5.5	11.0	8.0
27	12.5	11.0	7.5	6.5	4.5	3.5	3.0	1.5	8.0	6.5	10.0	9.5
28	12.5	11.0	7.0	6.5	4.0	3.0	3.0	1.5	7.5	6.5	9.5	8.0
29	12.0	11.0	7.0	6.5	3.5	3.0	3.0	1.5	---	---	8.5	7.0
30	13.0	11.5	7.0	6.5	4.5	3.5	3.5	1.5	---	---	8.5	7.0
31	12.5	12.0	---	---	4.0	3.0	5.0	3.0	---	---	9.5	7.5
MONTH	20.0	11.0	13.5	6.5	6.5	2.5	5.0	0.5	8.0	2.0	11.5	5.5

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

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, 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 mi^2 (311 km^2).

PERIOD OF RECORD.--September 1911 to September 1921 (fragmentary), December 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1635: 1957-58.

GAGE.--Water-stage recorder. Datum of gage is 1,198.37 ft (365.263 m) above mean sea level. Prior to December 1956, nonrecording gages at sites 1.0 mi (1.6 km) upstream at different datums. December 1956 to Sept. 20, 1969, water-stage recorder at site 0.8 mi (1.3 km) upstream at different datum.

REMARKS.--Records excellent. Small diversions above station for irrigation.

AVERAGE DISCHARGE.--23 years (water years 1912-14, 1958-77), 433 ft^3/s (12.26 m^3/s), 313,700 acre-ft/yr (387 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft^3/s (1,100 m^3/s) Dec. 22, 1964, gage height, 24.3 ft (7.41 m) from floodmarks, present site and datum, from rating curve extended above 6,000 ft^3/s (170 m^3/s) on basis of slope-area measurement at gage height 29.0 ft (8.84 m), previous site and datum; minimum observed, 20 ft^3/s (0.57 m^3/s) Aug. 19 to Sept. 6, 1914.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 21, 1955, reached a stage of 29.0 ft (8.84 m), at 1956-69 site and datum, from floodmarks, discharge, 23,000 ft^3/s (651 m^3/s) on basis of slope-area measurement of peak flows.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 848 ft^3/s (24.0 m^3/s) Sept. 28, gage height, 6.62 ft (2.018 m), no peak above base of 2,000 ft^3/s (56.6 m^3/s); minimum daily, 21 ft^3/s (0.59 m^3/s) Sept. 12-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	49	45	48	49	168	133	200	142	58	27	25
2	43	47	44	53	49	140	141	200	129	51	27	24
3	44	45	46	55	48	131	148	248	118	46	26	23
4	43	43	51	51	47	121	194	213	115	45	25	23
5	42	43	47	44	47	119	277	183	122	45	25	23
6	42	42	45	43	51	125	300	166	125	44	25	23
7	42	42	44	43	54	186	333	158	123	43	30	22
8	41	41	46	42	84	332	367	148	110	41	35	22
9	41	41	51	44	96	371	277	147	98	40	30	22
10	41	43	47	47	86	258	221	149	96	40	28	22
11	40	43	45	49	82	201	202	145	91	39	26	22
12	40	43	45	53	81	194	203	139	84	38	25	21
13	39	47	44	53	81	172	228	131	83	37	25	21
14	39	93	44	55	79	153	214	131	81	36	25	21
15	38	118	44	53	77	140	201	129	75	35	24	22
16	38	80	44	51	76	129	224	128	71	34	24	23
17	38	64	44	50	74	124	201	124	69	34	24	29
18	38	58	44	49	71	120	179	123	68	34	24	47
19	38	54	44	50	67	121	163	124	64	34	23	70
20	38	52	44	53	81	127	158	124	62	33	24	60
21	38	50	45	56	147	138	154	139	61	32	24	46
22	38	49	44	59	149	171	160	151	58	31	23	38
23	38	48	44	58	139	219	164	151	56	31	22	35
24	42	48	44	57	124	195	175	133	53	30	24	47
25	54	47	43	55	109	172	192	126	51	30	30	44
26	47	47	46	52	103	161	176	215	50	30	33	37
27	42	45	50	51	111	175	158	185	48	29	30	41
28	41	45	47	49	177	168	159	153	46	29	28	518
29	41	45	49	48	---	154	159	141	45	29	27	318
30	43	45	49	48	---	143	184	136	45	28	26	136
31	43	---	47	48	---	134	---	137	---	27	25	---
TOTAL	1275	1557	1416	1567	2439	5262	6045	4777	2439	1133	814	1825
MEAN	41.1	51.9	45.7	50.5	87.1	170	202	154	81.3	36.5	26.3	60.8
MAX	54	118	51	59	177	371	367	248	142	58	35	518
MIN	38	41	43	42	47	119	133	123	45	27	22	21
AC-FT	2530	3090	2810	3110	4840	10440	11990	9480	4840	2250	1610	3620

CAL YR 1976 TOTAL 78002 MEAN 213 MAX 1570 MIN 38 AC-FT 154700
WTR YR 1977 TOTAL 30549 MEAN 83.7 MAX 518 MIN 21 AC-FT 60590

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, Klamath National Forest, on left bank at Somes Bar, 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--751 mi^2 (1,945 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1911 to September 1915, October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1912, 1914, 1915(M), 1946(M), 1948(M). WDR CA-72-1: 1971(P).

GAGE.--Water-stage recorder. Datum of gage is 482.97 ft (147.209 m) above mean sea level. 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.--54 years, 1,800 ft^3/s (50.98 m^3/s), 1,304,000 acre-ft/yr (1.61 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133,000 ft^3/s (3,770 m^3/s) Dec. 22, 1964, gage height, 46.6 ft (14.20 m) present site and datum, from floodmarks, from rating curve extended above 33,000 ft^3/s (935 m^3/s); minimum, 70 ft^3/s (1.98 m^3/s) Aug. 25, Sept. 4, 5, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,810 ft^3/s (51.3 m^3/s) Sept. 29, gage height, 5.23 ft (1.594 m), no peak above base of 10,000 ft^3/s (283 m^3/s); minimum daily, 80 ft^3/s (2.27 m^3/s) Sept. 11-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204	191	191	182	194	408	408	935	1050	220	103	96
2	217	191	188	245	194	343	404	1000	978	224	101	95
3	227	188	185	266	188	327	399	1040	859	214	100	93
4	224	185	185	255	182	300	480	914	846	201	98	91
5	214	179	188	224	182	284	687	787	956	197	95	90
6	204	179	185	198	188	281	800	718	1040	194	94	89
7	201	176	185	198	191	319	893	663	1090	189	91	88
8	194	173	188	201	201	505	1180	612	971	181	92	84
9	191	173	207	201	238	866	956	606	853	177	94	83
10	188	173	194	207	231	705	768	629	956	172	94	82
11	185	185	191	230	217	546	699	652	742	168	93	80
12	185	188	194	250	217	530	693	658	623	160	91	80
13	182	197	191	240	217	489	781	652	617	155	91	80
14	179	352	188	220	214	441	793	669	675	150	93	80
15	176	373	185	215	214	404	749	681	578	146	93	80
16	176	343	185	210	214	390	866	658	510	141	91	83
17	176	307	185	205	214	377	846	640	470	136	89	106
18	173	273	188	205	207	364	755	612	450	133	89	165
19	173	255	188	217	204	356	681	629	470	133	91	446
20	173	234	185	238	217	352	646	646	418	133	93	379
21	173	227	185	241	431	352	634	761	390	131	93	231
22	173	220	185	248	515	408	646	846	364	127	93	181
23	173	214	185	248	395	541	640	893	335	122	92	158
24	179	210	185	234	399	612	663	800	311	118	91	207
25	220	204	185	220	331	535	730	736	292	117	107	189
26	210	197	182	204	288	494	736	1160	281	118	132	170
27	194	194	182	201	284	505	658	1230	263	118	125	159
28	188	191	182	194	369	515	640	942	245	115	110	552
29	185	191	179	188	---	480	687	859	234	112	103	1280
30	185	197	179	188	---	446	781	839	224	110	100	576
31	185	---	179	191	---	422	---	907	---	107	99	---
TOTAL	5907	6560	5784	6764	7136	13897	21299	24374	18091	4719	3021	6173
MEAN	191	219	187	218	255	448	710	786	603	152	97.5	206
MAX	227	373	207	266	515	866	1180	1230	1090	224	132	1280
MIN	173	173	179	182	182	281	399	606	224	107	89	80
AC-FT	11720	13010	11470	13420	14150	27560	42250	48350	35880	9360	5990	12240

CAL YR 1976 TOTAL 388804 MEAN 1062 MAX 6600 MIN 173 AC-FT 771200
WTR YR 1977 TOTAL 123725 MEAN 339 MAX 1280 MIN 80 AC-FT 245400

11522500 SALMON RIVER AT SOMES BAR, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.
CHEMICAL ANALYSES: Water years 1959-64.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1955-56.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 32.0°C Sept. 4, 5, 1966; minimum recorded, 0.0°C on several days in 1967 and 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 28.0°C Aug. 11; minimum, 0.5°C Jan. 8, 9.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	15.5	13.0	11.5	4.0	3.5	3.5	3.0	5.0	3.5	---	---
2	18.5	14.5	13.5	11.5	4.0	3.0	3.5	3.0	4.0	3.0	6.5	6.0
3	17.5	13.0	13.0	11.0	4.0	3.0	3.5	2.5	4.0	2.5	7.0	5.5
4	16.5	12.0	12.5	10.0	4.0	3.0	4.0	3.0	4.0	2.5	7.0	5.0
5	16.5	12.0	11.5	8.5	4.0	3.0	4.0	3.0	4.5	3.0	7.0	5.0
6	17.0	13.0	11.5	9.0	4.0	3.0	3.0	2.0	6.0	4.5	6.5	5.5
7	17.5	13.5	11.0	8.5	4.0	3.0	2.0	1.0	6.0	4.5	7.0	6.5
8	17.5	13.5	11.0	8.0	4.5	3.5	1.5	0.5	6.5	5.5	8.0	6.5
9	17.0	12.5	10.5	7.5	5.0	4.0	1.5	0.5	7.5	6.0	7.5	6.0
10	16.5	11.5	10.5	9.5	4.5	3.5	2.5	1.0	7.5	6.0	6.5	5.5
11	16.0	12.5	11.5	10.5	4.0	3.5	3.5	2.5	7.5	6.0	6.5	5.5
12	15.5	11.0	11.0	9.5	4.0	3.0	3.5	3.0	7.5	6.0	6.5	6.0
13	15.0	10.5	10.5	10.0	3.5	3.0	4.5	3.5	7.5	6.0	7.0	5.5
14	14.5	10.0	10.0	9.5	3.5	3.0	4.5	4.0	---	---	6.5	5.0
15	14.5	9.5	10.5	10.0	3.5	2.5	4.5	3.5	---	---	6.0	5.5
16	14.5	10.0	11.0	10.0	3.5	3.0	4.0	3.5	---	---	7.5	5.0
17	14.0	9.5	---	---	4.0	3.0	3.5	3.0	---	---	8.5	6.5
18	13.5	9.0	---	---	3.0	2.5	3.0	2.0	---	---	7.5	6.0
19	13.5	9.0	---	---	2.5	2.0	3.0	2.0	---	---	9.5	6.5
20	13.0	9.0	---	---	2.0	1.5	3.5	1.0	---	---	10.0	7.0
21	13.0	9.0	---	---	2.5	1.5	4.0	3.0	---	---	10.0	7.0
22	13.0	9.5	---	---	3.0	2.0	4.5	4.0	---	---	10.0	7.5
23	13.0	9.0	---	---	3.0	2.5	4.5	3.5	---	---	8.5	7.5
24	11.5	9.0	---	---	3.0	2.5	4.0	3.0	---	---	7.5	6.0
25	12.5	10.5	---	---	4.0	3.0	3.5	2.5	---	---	8.0	6.0
26	12.5	9.5	---	---	4.5	3.5	3.0	2.0	---	---	9.0	6.5
27	11.5	8.5	---	---	4.5	4.0	3.0	2.0	---	---	8.5	7.5
28	11.0	8.0	---	---	4.0	3.5	3.0	2.0	---	---	8.0	6.5
29	11.5	9.0	---	---	4.5	4.0	3.0	2.0	---	---	7.5	6.0
30	12.5	10.5	---	---	4.5	4.0	3.5	2.0	---	---	8.0	5.5
31	12.0	10.5	---	---	4.0	3.5	4.5	3.0	---	---	8.0	6.0
MONTH	18.5	8.0	---	---	5.0	1.5	4.5	0.5	---	---	10.0	5.0

11522500 SALMON RIVER AT SOMES BAR, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	7.0	12.5	11.5	17.0	15.0	23.5	21.5	24.5	20.0	23.5	15.0
2	10.0	7.5	12.0	10.5	16.0	13.5	24.0	20.0	27.5	21.0	23.5	15.0
3	10.5	7.5	11.5	10.5	15.0	13.5	23.0	18.5	27.5	20.5	24.0	14.5
4	11.5	9.0	11.0	9.5	17.5	13.5	22.5	17.5	27.0	20.0	---	---
5	11.0	9.5	11.0	10.0	19.0	16.0	22.0	16.5	26.0	18.5	---	---
6	10.5	9.0	10.5	9.0	20.0	17.5	22.5	16.5	25.5	17.5	---	---
7	11.0	9.5	11.0	9.0	19.5	18.0	23.0	17.5	26.0	18.5	---	---
8	11.0	9.5	11.5	9.0	20.0	17.5	23.5	18.0	26.0	18.0	---	---
9	9.5	8.0	11.5	10.0	19.5	18.0	23.0	18.0	26.0	19.0	---	---
10	9.5	8.0	11.0	10.5	18.0	16.0	24.0	17.0	27.5	19.5	---	---
11	10.5	8.5	11.0	10.0	18.5	15.5	24.0	18.5	28.0	20.0	---	---
12	11.5	9.5	13.0	10.0	19.5	17.0	24.5	19.0	25.5	20.0	---	---
13	12.0	10.5	12.5	11.0	19.5	18.0	24.5	18.5	23.0	18.5	---	---
14	11.0	9.5	12.5	11.0	20.0	17.5	25.0	19.0	24.5	17.0	---	---
15	11.5	9.5	12.5	11.0	21.0	18.5	25.5	20.0	24.0	16.5	---	---
16	12.0	10.0	11.5	11.0	21.0	18.5	25.5	20.0	22.5	16.5	---	---
17	11.0	9.5	13.0	10.5	19.5	18.0	25.5	19.5	23.0	17.0	---	---
18	10.5	9.0	12.0	11.0	20.0	17.0	25.5	19.5	23.5	16.5	---	---
19	11.0	9.0	14.0	10.5	20.5	17.5	25.0	19.0	23.0	16.0	---	---
20	11.0	10.0	15.5	13.0	20.5	18.0	25.0	19.0	20.0	16.0	---	---
21	12.0	10.0	15.5	13.5	22.0	18.0	25.0	18.0	22.0	16.0	---	---
22	12.0	10.5	14.5	12.0	23.0	19.0	25.0	18.5	23.0	15.0	---	---
23	12.5	11.0	12.5	11.0	23.0	19.0	25.5	19.0	23.5	15.5	---	---
24	12.5	11.5	14.5	11.5	23.5	19.0	24.5	19.0	21.0	17.5	---	---
25	12.0	11.5	13.5	13.0	24.0	20.0	24.5	18.0	19.0	15.0	---	---
26	13.0	10.5	13.0	11.5	25.0	20.5	24.0	17.5	20.5	15.5	---	---
27	13.0	11.0	13.0	10.5	24.5	20.5	24.0	17.0	20.5	15.0	---	---
28	12.5	11.0	13.5	11.0	25.0	20.5	24.0	17.0	22.0	17.0	---	---
29	12.5	11.0	15.0	12.0	25.5	21.0	24.5	17.0	23.0	16.0	---	---
30	13.0	11.5	16.0	13.5	24.5	21.5	25.5	18.5	23.0	16.0	---	---
31	---	---	17.0	14.0	---	---	26.0	19.0	22.5	15.5	---	---
MONTH	13.0	7.0	17.0	9.0	25.5	13.5	26.0	16.5	28.0	15.0	---	---

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, Six Rivers National Forest on right bank at Orleans, 25 ft (8 m) upstream from highway bridge, and 0.2 mi (0.3 km) downstream from Cheenitch Creek.

DRAINAGE AREA.--8,475 mi^2 (21,950 km^2), 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) above mean sea level. 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.--50 years, 8,144 ft^3/s (230.6 m^3/s), 5,900,000 acre-ft/yr (7.27 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 307,000 ft^3/s (8,690 m^3/s) Dec. 22, 1964, gage height, 76.5 ft (23.32 m) from floodmarks, site and datum then in use, from rating curve extended above 80,000 ft^3/s (2,270 m^3/s) by slope-conveyance study; minimum daily, 320 ft^3/s (9.06 m^3/s) Aug. 25, Sept. 1, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,800 ft^3/s (221 m^3/s) Sept. 29, gage height, 5.12 ft (1.561 m), no peak above base of 40,000 ft^3/s (1,130 m^3/s); minimum daily, 1,040 ft^3/s (29.5 m^3/s) Sept. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2430	3370	3920	2450	2450	3630	2330	3900	3480	1440	1100	1070
2	2430	3410	3900	2760	2450	2900	2350	4200	3280	1420	1100	1070
3	2540	3660	3860	2840	2410	2500	2380	4450	2900	1400	1090	1060
4	2510	3790	3580	2690	2260	2390	2670	3970	2820	1380	1080	1060
5	2480	3890	3440	2520	2260	2300	3340	3500	2910	1370	1080	1060
6	2600	3880	3380	2470	2300	2300	3660	3290	2990	1360	1070	1060
7	2650	3860	3340	2480	2330	2480	3830	3170	3060	1350	1080	1060
8	2660	3860	3040	2470	2390	3840	4460	3040	2930	1330	1110	1060
9	2660	3860	3050	2470	2590	4990	3900	3000	2790	1320	1100	1050
10	2610	3900	2990	2490	2510	4250	3310	3040	2930	1310	1090	1040
11	2600	3950	2930	2580	2450	3350	3070	3100	2720	1290	1070	1040
12	2600	3940	2930	2700	2440	3230	3040	3110	2470	1280	1060	1050
13	2590	3960	2940	2660	2440	3010	3190	3080	2450	1260	1070	1050
14	2590	4580	2920	2620	2430	2750	3240	3060	2550	1260	1070	1050
15	2600	4770	2700	2600	2410	2580	3070	3000	2350	1250	1070	1050
16	2590	4500	2690	2590	2390	2460	3260	2970	2100	1230	1060	1060
17	2590	4280	2680	2580	2370	2360	3230	2940	2000	1220	1060	1130
18	2600	4200	2670	2580	2350	2280	2990	2900	1900	1200	1060	1700
19	2600	4140	2660	2600	2320	2250	2920	2960	1950	1190	1060	2390
20	2600	4090	2650	2550	2370	2240	2840	2940	1870	1180	1060	2280
21	2600	4090	2630	2600	3110	2270	2770	3130	1800	1180	1060	1980
22	2600	4040	2610	2620	3740	2460	2770	3240	1740	1170	1070	1840
23	2600	3970	2500	2620	3350	2920	2740	3380	1680	1160	1060	1780
24	2630	3960	2480	2590	3390	3110	2790	3320	1630	1150	1060	1930
25	2800	3950	2470	2550	3060	2820	2960	3190	1590	1150	1110	1980
26	2770	3940	2480	2510	2870	2630	3040	4000	1560	1150	1170	1880
27	2710	3910	2510	2480	2890	2660	2780	4370	1530	1160	1140	1850
28	2690	3900	2500	2470	3320	2680	2720	3690	1500	1140	1120	4480
29	2690	3880	2480	2450	---	2540	2900	3430	1480	1130	1100	6170
30	2930	3910	2440	2420	---	2450	3400	3320	1460	1120	1080	3710
31	3340	---	2430	2430	---	2350	---	3340	---	1110	1070	---
TOTAL	81890	119440	89800	79440	73650	86980	91950	104030	68420	38660	33580	51990
MEAN	2642	3981	2897	2563	2630	2806	3065	3356	2281	1247	1083	1733
MAX	3340	4770	3920	2840	3740	4990	4460	4450	3480	1440	1170	6170
MIN	2430	3370	2430	2420	2260	2240	2330	2900	1460	1110	1060	1040
AC-FT	162400	236900	178100	157600	146100	172500	182400	206300	135700	76680	66610	103100

CAL YR 1976 TOTAL 1908150 MEAN 5214 MAX 27400 MIN 1650 AC-FT 3785000
WTR YR 1977 TOTAL 919830 MEAN 2520 MAX 6170 MIN 1040 AC-FT 1824000

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 current year.
Prior to October 1966, published as "at Somesbar."

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.
SEDIMENT RECORDS: January 1967 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading.

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 1968-77): Maximum daily mean, 4,690 mg/L Jan. 16, 1974; minimum daily mean, 1 mg/L Aug. 25-27, 1972.
SEDIMENT DISCHARGE (water years 1968-77): Maximum daily, 3,040,000 tons (2,760,000 tonnes) Jan. 16, 1974; minimum daily, 4.7 tons (4.3 tonnes) Aug. 27, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum, 1.5°C Jan. 8-10.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 57 mg/L Sept. 29; minimum daily mean, 2 mg/L Dec. 24, 25.
SEDIMENT DISCHARGE: Maximum daily, 920 tons (835 tonnes) Sept. 29; minimum daily, 8.7 tons (7.9 tonnes) Aug. 4-7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT								
04...	1000	--	2510	265	8.0	16.5	2	10.2
NOV								
08...	1145	--	3860	236	8.0	11.5	3	11.2
DEC								
06...	1145	--	3380	205	7.6	6.0	2	13.1
JAN								
04...	1355	--	2700	189	8.2	4.0	2	14.5
FEB								
01...	1145	--	2450	199	8.0	6.0	1	14.8
MAR								
07...	1215	--	2410	192	8.0	8.0	1	12.9
APR								
04...	1115	--	2690	176	8.0	12.0	1	12.6
MAY								
02...	1030	4200	--	164	8.2	14.0	2	12.0
JUN								
13...	1015	2450	--	200	8.2	20.0	1	10.8
JUL								
11...	1030	--	1290	244	8.2	24.0	0	9.8
AUG								
08...	0945	--	1110	230	8.1	24.0	1	9.1
SEP								
19...	1045	--	2300	192	7.9	18.0	1	9.5

DATE	TIME	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT										
04...	1000	88	0	21	1.0	120	0	98	7.4	100
DEC										
06...	1145	74	0	16	.8	98	0	80	5.5	100
FEB										
01...	1145	78	0	12	.6	100	0	82	5.4	100
MAY										
02...	1030	64	0	8.6	.5	80	0	66	3.0	100
JUN										
13...	1015	74	0	12	.6	96	0	79	5.7	100
JUL										
11...	1030	86	0	17	.8	110	0	90	6.7	100

11523000 KLAMATH RIVER AT ORLEANS, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	19.5	--	18.0	--	--	--	6.0	--	5.0	4.5	--	4.0	5.0	--	4.0	9.5	--	7.5
2	19.0	--	17.5	--	14.0	--	6.5	--	5.0	4.0	--	3.0	5.5	--	4.5	9.0	--	8.5
3	18.0	--	16.0	--	--	--	6.5	--	6.0	3.0	--	3.0	5.5	--	5.0	9.0	--	8.5
4	17.0	--	15.5	--	11.5	--	6.5	--	6.0	3.5	--	3.0	5.5	--	5.0	9.0	--	8.0
5	17.0	--	15.0	12.5	--	10.5	6.5	--	6.0	4.0	--	3.5	5.5	--	5.5	9.5	--	8.5
6	17.5	--	15.5	11.5	--	10.0	6.0	--	5.5	4.0	--	3.5	6.5	--	5.5	9.5	--	9.0
7	18.0	--	16.0	10.5	--	10.0	6.0	--	5.5	3.5	--	2.5	7.0	--	6.5	9.5	--	9.5
8	18.0	--	16.5	10.5	--	9.5	6.0	--	6.0	2.5	--	1.5	7.5	--	7.0	9.5	--	9.5
9	17.5	--	16.0	10.5	--	9.0	6.0	--	6.0	1.5	--	1.5	8.0	--	7.5	9.5	--	9.5
10	17.0	--	15.5	10.0	--	9.5	6.0	--	5.5	2.0	--	1.5	8.5	--	7.5	9.5	--	8.5
11	17.0	--	15.0	10.5	--	9.5	5.5	--	5.0	3.0	--	2.0	8.5	--	8.0	9.0	--	8.5
12	16.5	--	15.0	11.0	--	10.5	5.0	--	5.0	3.5	--	3.0	8.5	--	8.0	9.0	--	9.0
13	16.0	--	14.5	11.0	--	10.0	5.0	--	5.0	4.5	--	3.5	8.5	--	8.0	9.0	--	8.5
14	15.5	--	14.5	10.0	--	9.5	5.0	--	4.5	5.0	--	4.5	8.5	--	7.5	9.0	--	8.5
15	15.5	--	14.0	10.0	--	9.0	5.0	--	4.5	5.0	--	4.5	8.5	--	7.5	9.0	--	8.0
16	15.5	--	14.0	11.0	--	10.0	4.5	--	4.5	4.5	--	3.5	8.5	--	7.5	9.0	--	8.0
17	15.0	--	13.5	11.5	--	11.0	5.0	--	4.5	4.0	--	3.5	8.5	--	8.0	9.5	--	9.0
18	14.5	--	13.0	11.5	--	10.5	4.5	--	4.5	3.5	--	3.0	8.5	--	7.5	9.5	--	9.0
19	14.0	--	12.5	11.0	--	9.5	4.5	--	3.5	3.0	--	3.0	8.5	--	7.5	10.5	--	9.0
20	14.0	--	12.5	11.5	--	9.5	3.5	--	3.0	3.0	--	3.0	8.5	--	8.0	11.0	--	10.0
21	14.0	--	11.5	10.0	--	9.0	3.0	--	3.0	4.0	--	3.0	8.0	--	7.5	11.5	--	10.0
22	13.5	--	11.5	10.0	--	9.0	3.0	--	3.0	4.0	--	4.0	7.5	--	7.0	12.0	--	10.5
23	13.5	--	12.0	9.5	--	8.5	3.5	--	3.0	4.0	--	4.0	7.0	--	6.5	11.5	--	10.5
24	13.5	--	12.0	9.0	--	8.5	3.5	--	3.0	4.5	--	3.5	6.5	--	6.0	10.5	--	9.5
25	13.0	--	12.0	9.0	--	8.0	3.5	--	3.5	3.5	--	3.5	7.0	--	6.5	10.5	--	9.0
26	13.0	--	11.5	9.0	--	7.0	4.0	--	3.5	3.5	--	3.0	7.5	--	7.0	11.0	--	9.5
27	12.5	--	11.5	8.0	--	6.0	5.0	--	4.0	3.0	--	3.0	8.0	--	7.5	11.0	--	10.0
28	12.5	--	11.0	6.0	--	5.0	5.0	--	4.5	3.0	--	2.5	8.0	--	8.0	10.5	--	9.5
29	12.0	--	11.5	6.0	--	5.0	4.5	--	4.5	3.0	--	2.5	--	--	--	10.0	--	9.0
30	--	--	--	6.0	--	5.0	4.5	--	4.5	3.0	--	3.0	--	--	--	9.5	--	8.5
31	--	13.0	--	--	--	--	4.5	--	4.0	4.0	--	3.0	--	--	--	9.5	--	8.5
MONTH	19.5	--	11.0	12.5	--	5.0	6.5	--	3.0	5.0	--	1.5	8.5	--	4.0	12.0	--	7.5

DAY	APR MAX	APR DAILY	APR MIN	MAY MAX	MAY DAILY	MAY MIN	JUN MAX	JUN DAILY	JUN MIN	JUL MAX	JUL DAILY	JUL MIN	AUG MAX	AUG DAILY	AUG MIN	SEP MAX	SEP DAILY	SEP MIN
1	10.5	--	9.5	13.5	--	13.5	18.0	--	16.5	--	26.0	--	--	--	--	--	--	--
2	11.0	--	10.0	13.5	--	13.0	17.5	--	16.0	--	--	--	--	--	--	--	--	--
3	11.5	--	10.0	13.0	--	13.0	17.5	--	16.0	--	--	--	--	--	--	--	--	--
4	12.5	--	11.0	13.0	--	11.5	18.5	--	16.0	--	--	--	--	--	--	--	--	--
5	12.5	--	12.0	12.0	--	11.5	20.0	--	18.0	--	--	--	--	24.0	--	--	--	--
6	12.5	--	11.5	12.5	--	11.5	21.5	--	19.5	--	--	--	--	--	--	--	--	--
7	12.5	--	11.5	12.5	--	11.0	21.5	--	20.0	--	21.0	--	--	--	--	--	--	--
8	12.5	--	12.0	13.0	--	12.0	21.5	--	20.0	--	--	--	--	--	--	--	--	--
9	12.0	--	10.5	13.0	--	12.5	21.0	--	20.5	--	--	--	--	--	--	--	--	--
10	11.0	--	10.0	13.0	--	12.5	20.5	--	19.0	--	--	--	--	--	--	--	--	--
11	12.0	--	10.5	12.5	--	12.0	19.5	--	18.5	--	--	--	--	--	--	--	--	--
12	12.5	--	11.5	14.0	--	12.5	20.5	--	18.0	--	--	--	--	--	--	--	--	--
13	13.0	--	12.5	14.0	--	13.0	21.0	--	19.0	--	--	--	--	--	--	--	--	--
14	13.0	--	12.5	14.5	--	13.5	21.5	--	20.0	--	--	--	--	--	--	--	--	--
15	12.5	--	12.0	14.0	--	13.0	22.0	--	20.0	--	--	--	--	--	--	--	--	--
16	13.0	--	12.5	14.5	--	13.0	22.0	--	20.0	--	--	--	--	--	--	18.5	--	10.5
17	13.0	--	12.0	14.0	--	13.0	22.0	--	20.0	--	--	--	--	--	--	19.5	--	12.0
18	12.5	--	11.5	14.5	--	13.5	21.5	--	19.0	--	--	--	--	--	--	16.5	--	13.5
19	12.5	--	11.0	15.0	--	13.0	21.5	--	19.0	--	--	--	--	--	--	16.5	--	15.0
20	12.5	--	12.0	16.0	--	14.5	21.0	--	19.0	--	--	--	--	--	--	17.0	--	15.5
21	13.0	--	12.0	16.5	--	15.0	22.5	--	19.5	--	--	--	--	--	--	17.0	--	15.0
22	13.0	--	12.5	16.5	--	15.0	23.0	--	20.0	--	--	--	--	--	--	16.5	--	14.0
23	13.5	--	13.0	15.0	--	13.5	23.5	--	20.0	--	--	--	--	--	--	16.0	--	15.0
24	14.0	--	13.0	15.5	--	14.0	--	--	--	--	--	--	--	--	--	16.5	--	14.5
25	14.0	--	13.0	15.0	--	14.0	--	--	--	--	--	--	--	--	--	17.0	--	14.5
26	13.5	--	12.5	15.0	--	14.0	--	--	--	--	--	--	--	--	--	17.5	--	15.5
27	14.5	--	13.0	15.0	--	13.5	--	--	--	--	--	--	--	--	--	17.0	--	16.0
28	14.0	--	13.0	15.5	--	14.0	--	--	--	--	--	--	--	--	--	16.5	--	15.5
29	13.5	--	13.0	16.0	--	14.0	--	25.0	--	--	--	--	--	--	--	15.5	--	14.5
30	13.5	--	13.5	17.0	--	15.5	--	--	--	--	--	--	--	--	--	15.5	--	14.5
31	--	--	--	18.5	--	18.0	--	--	--	--	--	--	--	22.0	--	--	--	--
MONTH	14.5	--	9.5	18.5	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--

11523000 KLAMATH RIVER AT ORLEANS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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	2430	4	26	3370	9	82	3920	7	74
2	2430	4	26	3410	8	74	3900	7	74
3	2540	6	41	3660	15	148	3860	6	63
4	2510	5	34	3790	14	143	3580	5	48
5	2480	5	33	3890	13	137	3440	5	46
6	2600	15	105	3880	13	136	3380	5	46
7	2650	10	72	3860	13	135	3340	5	45
8	2660	8	57	3860	13	135	3040	5	41
9	2660	8	57	3860	12	125	3050	5	41
10	2610	6	42	3900	10	105	2990	6	48
11	2600	6	42	3950	9	96	2930	5	40
12	2600	6	42	3940	8	85	2930	4	32
13	2590	6	42	3960	8	86	2940	4	32
14	2590	6	42	4580	16	198	2920	4	32
15	2600	6	42	4770	18	232	2700	5	36
16	2590	6	42	4500	12	146	2690	5	36
17	2590	6	42	4280	8	92	2680	5	36
18	2600	6	42	4200	7	79	2670	5	36
19	2600	6	42	4140	10	112	2660	5	36
20	2600	10	70	4090	9	99	2650	5	36
21	2600	15	105	4090	8	88	2630	4	28
22	2600	12	84	4040	8	87	2610	3	21
23	2600	10	70	3970	8	86	2500	3	20
24	2630	10	71	3960	8	86	2480	2	13
25	2800	9	68	3950	8	85	2470	2	13
26	2770	8	60	3940	8	85	2480	4	27
27	2710	7	51	3910	7	74	2510	7	47
28	2690	6	44	3900	7	74	2500	7	47
29	2690	8	58	3880	7	73	2480	7	47
30	2930	8	63	3910	7	74	2440	6	40
31	3340	10	90	---	---	---	2430	6	39
TOTAL	81890	---	1705	119440	---	3257	89800	---	1220

	JANUARY			FEBRUARY			MARCH		
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	2450	5	33	2450	6	40	3630	10	98
2	2760	12	89	2450	6	40	2900	8	63
3	2840	10	77	2410	6	39	2500	8	54
4	2690	8	58	2260	6	37	2390	7	45
5	2520	7	48	2260	6	37	2300	6	37
6	2470	5	33	2300	6	37	2300	6	37
7	2480	9	60	2330	6	38	2480	9	63
8	2470	7	47	2390	8	52	3840	24	249
9	2470	5	33	2590	15	105	4990	31	429
10	2490	3	20	2510	12	81	4250	21	241
11	2580	7	49	2450	10	66	3350	15	136
12	2700	28	204	2440	8	53	3230	15	131
13	2660	20	144	2440	6	40	3010	14	114
14	2620	12	85	2430	4	26	2750	12	89
15	2600	9	63	2410	5	33	2580	11	77
16	2590	5	35	2390	7	45	2460	10	66
17	2580	5	35	2370	6	38	2360	9	57
18	2580	14	98	2350	5	32	2280	8	49
19	2600	10	70	2320	4	25	2250	7	43
20	2550	8	55	2370	6	38	2240	6	36
21	2600	6	42	3110	20	176	2270	5	31
22	2620	6	42	3740	27	271	2460	6	40
23	2620	6	42	3350	15	136	2920	10	79
24	2590	5	35	3390	12	110	3110	8	67
25	2550	5	34	3060	7	58	2820	5	38
26	2510	5	34	2870	6	46	2630	5	36
27	2480	4	27	2890	6	47	2660	5	36
28	2470	4	27	3320	15	136	2680	4	29
29	2450	4	26	---	---	---	2540	4	27
30	2420	6	39	---	---	---	2450	4	26
31	2430	6	39	---	---	---	2350	4	25
TOTAL	79440	---	1723	73650	---	1882	86980	---	2548

11523000 KLAMATH RIVER AT ORLEANS, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	2330	10	63	3900	16	168	3480	5	47
2	2350	8	51	4200	10	113	3280	5	44
3	2380	8	51	4450	14	168	2900	5	39
4	2670	8	58	3970	10	107	2820	5	38
5	3340	10	90	3500	10	94	2910	5	39
6	3660	10	99	3290	11	98	2990	5	40
7	3830	10	103	3170	9	77	3060	7	58
8	4460	18	217	3040	8	66	2930	6	47
9	3900	15	158	3000	7	57	2790	6	45
10	3310	12	107	3040	6	49	2930	7	55
11	3070	10	83	3100	5	42	2720	6	44
12	3040	8	66	3110	5	42	2470	6	40
13	3190	8	69	3080	12	100	2450	6	40
14	3240	13	114	3060	10	83	2550	11	76
15	3070	11	91	3000	10	81	2350	9	57
16	3260	13	114	2970	10	80	2100	8	45
17	3230	10	87	2940	10	79	2000	7	38
18	2990	10	81	2900	10	78	1900	6	31
19	2920	8	63	2960	16	128	1950	5	26
20	2840	7	54	2940	13	103	1870	5	25
21	2770	6	45	3130	10	85	1800	5	24
22	2770	6	45	3240	10	87	1740	4	19
23	2740	6	44	3380	10	91	1680	4	18
24	2790	6	45	3320	9	81	1630	4	18
25	2960	10	80	3190	8	69	1590	4	17
26	3040	7	57	4000	14	151	1560	4	17
27	2780	10	75	4370	12	142	1530	3	12
28	2720	10	73	3690	9	90	1500	3	12
29	2900	12	94	3430	6	56	1480	3	12
30	3400	14	129	3320	4	36	1460	3	12
31	---	---	---	3340	4	36	---	---	---
TOTAL	91950	---	2506	104030	---	2737	68420	---	1035

	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	1440	3	12	1100	3	8.9	1070	14	40
2	1420	3	12	1100	3	8.9	1070	14	40
3	1400	3	11	1090	3	8.8	1060	14	40
4	1380	3	11	1080	3	8.7	1060	12	34
5	1370	3	11	1080	3	8.7	1060	12	34
6	1360	3	11	1070	3	8.7	1060	12	34
7	1350	3	11	1080	3	8.7	1060	10	29
8	1330	3	11	1110	5	15	1060	10	29
9	1320	3	11	1100	5	15	1050	10	28
10	1310	3	11	1090	5	15	1040	8	22
11	1290	3	10	1070	5	14	1040	8	22
12	1280	3	10	1060	5	14	1050	8	23
13	1260	3	10	1070	5	14	1050	6	17
14	1260	3	10	1070	4	12	1050	6	17
15	1250	3	10	1070	4	12	1050	6	17
16	1230	3	10	1060	4	11	1060	6	17
17	1220	3	9.9	1060	4	11	1130	6	18
18	1200	3	9.7	1060	4	11	1700	7	32
19	1190	3	9.6	1060	4	11	2390	10	65
20	1180	3	9.6	1060	4	11	2280	9	55
21	1180	3	9.6	1060	4	11	1980	8	43
22	1170	3	9.5	1070	4	12	1840	7	35
23	1160	3	9.4	1060	4	11	1780	8	38
24	1150	3	9.3	1060	4	11	1930	8	42
25	1150	3	9.3	1110	6	18	1980	6	32
26	1150	3	9.3	1170	9	28	1880	6	30
27	1160	3	9.4	1140	8	25	1850	6	30
28	1140	3	9.2	1120	7	21	4480	42	630
29	1130	3	9.2	1100	6	18	6170	57	920
30	1120	3	9.1	1080	6	17	3710	10	100
31	1110	3	9.0	1070	16	46	---	---	---
TOTAL	38660	---	313.1	33580	---	445.4	51990	---	2513
YEAR	919830		21884.5						

11523200 TRINITY RIVER ABOVE COFFEE CREEK, NEAR TRINITY CENTER, CA

LOCATION.--Lat 41°06'29", long 122°42'23", in NE¼SE¼ sec.31, T.38 N., R.7 W., Trinity County, Shasta National Forest, on right bank 250 ft (76 m) downstream from Chinquapin Gulch, 1.8 mi (2.9 km) upstream from Coffee Creek, and 8.5 mi (13.7 km) north of Trinity Center.

DRAINAGE AREA.--149 mi^2 (386 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 2,533.36 ft (772.168 m) above mean sea level.

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

AVERAGE DISCHARGE.--20 years, 413 ft^3/s (11.70 m^3/s), 299,200 acre-ft/yr (369 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,500 ft^3/s (750 m^3/s) Jan. 16, 1974, gage height, 12.96 ft (3.950 m) in gage well, 13.6 ft (4.15 m) from floodmarks, from rating curve extended above 4,500 ft^3/s (127 m^3/s) on basis of slope-area measurements at gage heights 9.91 ft (3.021 m) and 12.96 ft (3.950 m); minimum daily, 16 ft^3/s (0.45 m^3/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) from floodmarks, discharge, 11,400 ft^3/s (323 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 555 ft^3/s (15.7 m^3/s) Sept. 28, gage height, 3.07 ft (0.936 m), no peak above base of 1,900 ft^3/s (53.8 m^3/s); minimum daily, 16 ft^3/s (0.45 m^3/s) Sept. 11-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	33	35	36	39	52	57	302	202	41	21	19
2	38	33	35	32	38	48	57	272	180	49	21	18
3	39	33	35	22	38	47	60	264	163	41	21	18
4	38	33	35	28	38	45	91	233	157	39	21	18
5	37	32	35	19	38	45	139	193	150	38	20	18
6	35	32	35	18	38	46	162	180	145	37	20	17
7	35	32	35	17	38	48	202	164	159	36	20	17
8	34	32	35	21	55	54	243	150	152	35	20	17
9	33	32	35	25	54	68	169	164	129	33	20	17
10	33	33	35	25	47	57	138	194	132	31	21	17
11	33	36	35	38	46	52	131	218	131	30	21	16
12	33	38	35	41	46	53	143	216	108	29	21	16
13	33	38	35	40	46	48	172	217	93	28	21	16
14	32	65	34	40	46	48	159	212	84	27	20	16
15	32	51	34	40	47	52	152	199	80	26	20	17
16	32	50	35	40	47	55	184	181	70	26	20	22
17	32	45	34	40	46	58	163	169	65	25	20	51
18	32	42	33	42	44	57	137	165	66	25	19	120
19	32	39	32	44	44	55	122	166	86	25	19	206
20	32	38	32	46	45	60	121	162	64	25	19	89
21	32	38	33	46	70	63	124	173	58	24	20	55
22	33	37	34	47	60	82	118	193	53	24	20	43
23	33	36	33	46	57	106	118	216	50	24	18	37
24	33	36	32	43	53	90	124	194	47	24	18	40
25	34	35	33	41	49	75	160	178	45	24	24	36
26	35	35	33	39	49	67	148	285	43	24	30	33
27	33	34	33	40	49	76	126	270	42	23	25	36
28	33	34	32	39	54	70	124	219	40	23	23	399
29	33	35	34	39	---	65	123	198	39	22	22	225
30	33	35	36	39	---	61	152	189	38	21	21	109
31	33	---	36	39	---	58	---	196	---	21	21	---
TOTAL	1048	1122	1058	1112	1321	1861	4119	6332	2871	900	647	1758
MEAN	33.8	37.4	34.1	35.9	47.2	60.0	137	204	95.7	29.0	20.9	58.6
MAX	39	65	36	47	70	106	243	302	202	49	30	399
MIN	32	32	32	17	38	45	57	150	38	21	18	16
AC-FT	2080	2230	2100	2210	2620	3690	8170	12560	5690	1790	1280	3490

CAL YR 1976 TOTAL 67764 MEAN 185 MAX 1430 MIN 32 AC-FT 134400
WTR YR 1977 TOTAL 24149 MEAN 66.2 MAX 399 MIN 16 AC-FT 47900

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, 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 at mean sea level (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, above mean sea level. 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, 238,300 acre-ft (294 hm³) Sept. 27, 1977, elevation, 2,125.02 ft (647.706 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,497,500 acre-ft (1.85 km³) Oct. 1, elevation, 2,302.96 ft (701.942 m); minimum, 238,300 acre-ft (294 hm³) Sept. 27, elevation, 2,125.02 ft (647.706 m).

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

1960	670	2100	162231
1970	1894	2140	292850
1980	4131	2190	529611
2000	12373	2250	955140
2020	26436	2310	1583590
2040	47023	2380	2616990
2070	92906		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1497500	1311900	1240300	1205300	1158100	1142200	1059200	1037800	922500	759000	527800	322800
2	1491800	1306500	1239500	1205600	1157300	1139600	1056200	1040500	918600	751800	520300	318900
3	1486200	1301900	1238200	1205100	1156600	1136700	1053400	1037400	914700	744200	512900	314600
4	1480600	1297500	1237000	1204200	1155900	1133900	1050700	1034000	910900	736800	505500	308000
5	1475100	1293000	1235600	1203600	1155000	1130800	1048200	1029700	906900	729700	497900	302400
6	1469200	1288400	1234300	1197100	1154400	1127900	1046000	1025500	902800	722600	490400	296100
7	1462800	1284100	1233000	1192800	1153700	1125200	1044000	1021500	898900	714900	483000	293100
8	1456600	1280100	1231900	1187200	1153500	1122500	1042200	1017400	893900	707100	475900	290300
9	1450400	1276000	1230600	1181900	1153200	1120000	1040000	1013500	887900	699700	468700	288000
10	1444200	1273200	1229600	1176700	1152800	1117300	1037600	1009400	883700	692200	461500	286000
11	1438300	1270700	1228500	1171700	1152100	1114400	1035100	1005500	878500	684600	454200	283100
12	1432100	1267800	1227100	1171000	1151400	1111500	1032800	1001500	873100	677100	447000	280200
13	1426200	1266300	1225800	1170400	1150800	1108700	1030300	997400	867400	669600	439600	276700
14	1418900	1265000	1224600	1169600	1150200	1105900	1028200	993100	859900	662300	432300	273800
15	1411700	1262700	1223700	1168900	1149600	1104400	1025800	989000	854300	654900	425100	270400
16	1404600	1262200	1222700	1168200	1149200	1101800	1023800	984700	848900	647400	417900	267000
17	1397900	1260700	1221600	1167400	1148700	1099200	1024900	980500	843200	639900	409800	263900
18	1391300	1258400	1220300	1166800	1148400	1096500	1025200	976300	837800	632300	402700	262300
19	1384900	1256200	1219200	1166200	1147600	1093900	1025800	972000	832400	624900	395700	261200
20	1378900	1254300	1218200	1165700	1147200	1091200	1026300	967700	826600	618000	388700	258900
21	1373300	1252500	1217000	1165000	1147300	1088700	1026800	963800	820900	610500	381700	256000
22	1367800	1250800	1216000	1164400	1147100	1086100	1027300	960100	814900	603000	375200	253100
23	1362200	1249900	1214800	1163800	1147100	1083900	1028400	956300	808600	595500	368200	250100
24	1356700	1248500	1213700	1163100	1146600	1081200	1029300	952100	802500	587900	361300	247300
25	1350800	1247100	1212600	1162600	1145700	1078600	1030500	948100	796700	580300	356100	244400
26	1345400	1246000	1211400	1161900	1144900	1076100	1031700	944700	790700	572700	350900	241400
27	1340000	1244800	1210200	1161200	1144100	1073200	1032300	941000	784500	564900	345400	238300
28	1334300	1243600	1208900	1160600	1143100	1070600	1032700	937600	778500	557400	340300	239800
29	1328800	1242600	1208100	1159900	---	1067700	1033500	933700	772300	550000	335500	241300
30	1323200	1241300	1207100	1159500	---	1065100	1034800	929700	766100	542400	331000	242400
31	1317400	---	1206000	1158600	---	1062100	---	925900	---	535300	326600	---
MAX	1497500	1311900	1240300	1205600	1158100	1142200	1059200	1040500	922500	759000	527800	322800
MIN	1317400	1241300	1206000	1158600	1143100	1062100	1023800	925900	766100	535300	326600	238300
†	2287.29	2280.18	2276.75	2272.03	2270.46	2261.96	2258.99	2246.57	2226.36	2191.00	2148.42	2126.23
‡	-185400	-76100	-35300	-47400	-15500	-81000	-27300	-108900	-159800	-230800	-208700	-84200
††	2330	620	180	210	720	690	3140	2660	4420	4320	2930	1360

CAL YR 1976 ‡ -668800
WTR YR 1977 ‡ -1260400

† Elevation, in feet, 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, 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.--14 years, 1,727 ft^3/s (48.91 m^3/s), 1,251,000 acre-ft/yr (1.54 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,910 ft^3/s (111 m^3/s) Feb. 11, 1970; no flow for several days in many years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2640	2580	535	521	337	526	1690	0	2630	3390	3630	1930
2	2620	2580	547	491	346	1500	1640	66	2560	3400	3610	1840
3	2620	2110	538	626	307	1520	1600	2560	2550	3400	3440	1860
4	2620	2110	473	466	306	1510	1600	2580	2550	3410	3400	3130
5	2760	2120	467	387	523	1500	1600	2560	2550	3420	3580	3140
6	2870	2060	496	2700	320	1490	1600	2560	2580	3570	3550	2930
7	2860	2110	487	2770	348	1500	1640	2560	2550	3640	3530	1420
8	2950	1900	647	2580	330	1490	1720	2560	3070	3640	3510	1120
9	2860	1820	796	2590	321	1490	1640	2550	3220	3630	3490	1090
10	2860	1330	518	2580	322	1490	1640	2570	3020	3640	3450	674
11	2850	1300	477	2500	315	1500	1640	2560	3020	3630	3470	1310
12	2850	1150	594	377	323	1490	1640	2560	3020	3640	3470	1460
13	2840	962	633	334	315	1490	1640	2670	2990	3640	3460	1470
14	3420	1200	520	320	395	1500	1640	2570	3000	3630	3470	2160
15	3350	1200	517	363	449	1500	1790	2560	2990	3630	3580	1010
16	3370	567	497	339	383	1500	1610	2560	2980	3630	3670	986
17	3060	504	508	336	388	1490	92	2560	2990	3660	3490	1470
18	2940	1030	503	356	379	1500	0	2550	2990	3620	3400	1510
19	2960	929	506	335	314	1500	0	2530	2990	3050	3460	1500
20	2830	875	507	308	317	1500	0	2570	2980	3630	3400	1470
21	2580	880	520	395	318	1500	0	2550	2990	3160	3380	1470
22	2570	951	514	365	325	1490	0	2550	2990	3610	3330	1470
23	2580	535	508	361	342	1500	0	2580	2990	3620	3330	1470
24	2580	533	504	374	458	1500	0	2560	3030	3620	3320	1450
25	2580	455	519	369	454	1500	0	2560	3090	3620	2890	1460
26	2580	442	615	394	503	1500	0	2560	3060	3640	2800	1470
27	2580	492	512	369	510	1510	0	2560	3060	3640	2580	1460
28	2580	427	512	358	496	1510	0	2560	2990	3590	2230	1300
29	2580	504	530	314	---	1510	0	2560	2990	3640	2220	0
30	2580	576	517	300	---	1510	0	2550	2990	3610	2110	0
31	2580	---	526	327	---	1510	---	2580	---	3640	2070	---
TOTAL	86500	36232	16543	25205	10444	45526	26422	74426	87410	110290	100320	45030
MEAN	2790	1208	534	813	373	1469	881	2401	2914	3558	3236	1501
MAX	3420	2580	796	2770	523	1520	1790	2670	3220	3660	3670	3140
MIN	2570	427	467	300	306	526	0	0	2550	3050	2070	0
AC-FT	171600	71870	32810	49990	20720	90300	52410	147600	173400	218800	199000	89320

CAL YR 1976 TOTAL 540287.00 MEAN 1476 MAX 3420 MIN 0 AC-FT 1072000
WTR YR 1977 TOTAL 664348.00 MEAN 1820 MAX 3670 MIN 0 AC-FT 1318000

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, on right bank 400 ft (122 m) upstream from Deadwood Creek, and 0.8 mi (1.3 km) northeast of Lewiston.

DRAINAGE AREA.--719 mi^2 (1,862 km^2).

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. Altitude of gage is 1,810 ft (552 m), from topographic map. See WSP 1929 for history of changes prior to July 7, 1964.

REMARKS.--Records good. 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).--66 years, 1,696 ft^3/s (48.03 m^3/s), 1,229,000 acre-ft/yr (1.52 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,600 ft^3/s (2,030 m^3/s) Dec. 22, 1955, gage height, 27.3 ft (8.32 m) from floodmarks, site and datum then in use; minimum, 23 ft^3/s (0.65 m^3/s) July 30, 1924. Maximum discharge since construction of Lewiston Dam in 1960, 14,400 ft^3/s (408 m^3/s) Jan. 18, 1974, gage height, 10.41 ft (3.173 m); minimum daily, 100 ft^3/s (2.83 m^3/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, 267 ft^3/s (7.56 m^3/s) Nov. 15, gage height, 3.47 ft (1.058 m); minimum daily, 136 ft^3/s (3.85 m^3/s) Dec. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	252	162	145	143	146	148	159	153	152	153	165
2	198	252	141	142	143	148	148	149	151	150	155	197
3	198	252	142	144	144	148	148	145	150	150	160	196
4	193	252	142	146	144	149	149	144	151	148	156	199
5	191	251	145	148	145	149	149	144	151	153	153	191
6	192	251	147	145	144	149	148	145	152	154	152	185
7	193	251	147	146	144	148	147	146	155	153	151	183
8	194	250	147	142	145	148	147	146	155	153	154	185
9	194	250	148	143	145	149	147	147	156	153	155	186
10	195	248	146	144	144	148	146	152	154	153	155	185
11	194	247	142	145	144	149	145	154	153	153	154	187
12	194	248	142	146	146	149	145	151	153	153	155	188
13	195	250	143	145	146	149	145	155	156	152	153	187
14	195	249	140	145	146	149	145	164	156	151	155	185
15	230	225	136	144	146	151	144	167	155	150	156	180
16	252	197	138	148	146	150	143	157	156	152	154	187
17	252	194	143	148	145	149	142	152	154	152	155	191
18	251	193	143	144	144	149	142	153	157	152	157	189
19	251	193	144	145	144	149	145	153	161	156	156	195
20	251	195	145	143	144	149	147	154	155	155	158	199
21	250	194	144	145	146	150	148	152	153	158	157	190
22	251	194	143	145	145	156	149	152	152	159	158	190
23	251	193	143	144	146	158	150	151	153	157	158	189
24	252	192	144	144	145	151	148	152	154	154	159	189
25	252	194	144	145	144	148	149	152	153	154	159	188
26	252	195	143	144	146	149	148	153	151	155	156	188
27	250	196	144	143	145	149	148	152	153	155	150	190
28	250	194	144	143	145	149	149	151	155	155	154	193
29	252	193	145	143	---	149	149	152	151	155	156	191
30	252	194	145	143	---	149	155	154	151	155	156	189
31	252	---	145	143	---	149	---	154	---	154	158	---
TOTAL	6974	6639	4467	4480	4054	4632	4413	4712	4610	4756	4818	5657
MEAN	225	221	144	145	145	149	147	152	154	153	155	189
MAX	252	252	162	148	146	158	155	167	161	159	160	199
MIN	191	192	136	142	143	146	142	144	150	148	150	165
AC-FT	13830	13170	8860	8890	8040	9190	8750	9350	9140	9430	9560	11220
MEAN ‡	40.5	161	107	191	252	312	621	824	456	26.2	44.4	297
AC-FT ‡	2490	9560	6550	11720	13980	19180	36970	50690	27200	1610	2730	17660

CAL YR 1976 TOTAL 62621 MEAN 171 MAX 899 MIN 100 AC-FT 124200 MEAN ‡ 786 AC-FT ‡ 570800
WTR YR 1977 TOTAL 60212 MEAN 165 MAX 252 MIN 136 AC-FT 119400 MEAN ‡ 277 AC-FT ‡ 200300

‡ Adjusted for change in contents, evaporation, and diversion from Engle Lake. Data furnished by Bureau of Reclamation.

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, 21.0°C on several days during August and September; minimum recorded, 5.5°C Jan. 2, 6.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)
NOV										
08...	0815	252	83	7.1	8.0	0	10.6	--	--	40
JAN										
04...	0920	147	83	7.3	6.5	0	12.3	--	--	42
MAR										
07...	0815	147	94	8.4	7.0	0	11.2	2	1.5	45
MAY										
02...	0715	149	95	7.4	12.0	1	10.3	--	--	--
JUL										
11...	0645	151	97	8.2	11.5	1	9.3	--	--	--
SEP										
19...	0720	190	103	7.3	12.0	0	9.7	1	.9	48

DATE	NONCARBONATE HARDNESS (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	SUSPENDED SOLIDS (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
NOV										
08...	1	2.2	.2	48	0	39	2.0	--	.02	--
JAN										
04...	1	2.2	.1	50	0	41	2.0	--	.06	--
MAR										
07...	2	2.2	.1	53	0	43	2.1	4	.08	.01
MAY										
02...	--	--	--	--	--	--	--	--	.04	.00
JUL										
11...	--	--	--	--	--	--	--	--	.03	.02
SEP										
19...	0	2.2	.1	58	0	48	1.7	1	.04	--

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)
NOV									
08...	--	--	--	.01	--	--	0	--	--
JAN									
04...	--	--	--	.01	--	--	0	--	--
MAR									
07...	.00	.01	.03	.00	0	0	0	0	0
MAY									
02...	.10	.10	.02	.02	--	--	--	--	--
JUL									
11...	.10	.12	.01	.01	--	--	--	--	--
SEP									
19...	.00	--	.01	.00	0	0	100	0	0

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV 08...	--	--	--	--	--	--	--	--	--
JAN 04...	--	--	--	--	--	--	--	--	--
MAR 07...	0	10	0	0	.0	--	0	1.2	.00
MAY 02...	--	--	--	--	--	--	--	--	--
JUL 11...	--	--	--	--	--	--	--	--	--
SEP 19...	0	20	0	10	.0	10	0	1.3	.00

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

11525500 TRINITY RIVER AT LEWISTON, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	8.0	13.5	12.5	13.5	10.5	13.0	11.5	15.5	13.5	21.0	18.0
2	11.0	8.0	14.5	12.5	13.5	10.0	14.0	11.5	15.5	13.0	20.0	18.0
3	11.5	8.5	15.0	12.5	13.0	10.5	14.0	10.5	16.5	13.0	20.5	18.0
4	12.0	9.0	15.0	12.0	13.5	10.5	14.0	11.0	16.5	13.0	21.0	18.5
5	12.5	9.0	13.0	10.5	14.0	10.5	14.0	11.0	16.5	13.5	21.0	18.5
6	12.5	9.5	12.0	10.0	14.0	11.0	14.0	11.0	16.5	13.5	21.0	18.5
7	13.0	10.0	11.5	9.5	14.0	11.0	14.5	11.5	17.0	14.0	21.0	18.5
8	11.5	10.0	11.5	9.0	14.0	11.0	15.0	11.5	16.5	13.5	20.5	18.5
9	12.5	9.5	10.5	9.5	13.5	11.0	14.5	11.0	16.5	14.0	21.0	18.5
10	12.5	9.5	11.5	9.5	11.5	10.5	14.5	11.5	17.0	14.0	21.0	18.5
11	12.5	10.0	11.0	9.5	12.5	10.0	14.5	11.5	17.0	14.0	21.0	17.0
12	13.0	9.5	11.5	9.5	13.0	10.0	15.0	11.5	17.0	14.5	18.0	15.5
13	13.0	10.0	12.0	9.5	13.0	10.5	14.5	11.5	17.0	14.5	16.0	14.5
14	13.0	9.5	12.0	9.5	13.5	10.5	14.5	11.5	17.0	14.0	16.0	13.0
15	13.0	10.0	11.5	9.5	14.0	10.5	15.0	11.5	17.5	14.0	14.0	12.5
16	13.0	10.0	12.0	9.5	14.0	10.5	15.0	12.0	17.5	14.5	12.5	12.0
17	13.0	10.0	12.5	9.5	13.0	11.0	15.0	12.0	17.0	15.0	12.5	12.0
18	13.0	9.5	10.5	9.5	13.5	11.0	15.5	12.0	17.5	15.0	13.0	12.0
19	13.5	10.0	12.5	9.5	13.5	11.0	15.5	12.5	18.0	15.0	13.5	12.0
20	13.5	10.5	13.0	9.5	13.5	10.5	15.5	12.5	18.5	16.0	14.0	12.0
21	13.5	10.5	13.0	10.0	14.0	11.0	15.5	12.5	19.0	16.0	14.0	12.0
22	14.0	10.5	11.5	10.0	14.5	11.0	15.5	12.5	19.0	16.0	14.5	12.5
23	13.5	11.0	12.0	10.0	14.5	11.0	15.5	12.5	19.5	16.0	13.0	12.5
24	13.0	11.5	13.0	10.0	14.5	11.0	15.5	12.5	18.5	17.0	14.0	12.0
25	14.0	11.5	12.0	10.0	15.0	11.5	15.5	12.5	17.0	16.5	14.5	12.0
26	14.5	11.0	12.5	10.0	15.0	11.5	16.0	12.5	19.0	16.0	14.5	12.5
27	15.0	11.5	12.5	9.5	15.0	11.5	16.0	12.5	19.5	16.5	13.5	12.5
28	13.5	12.0	12.5	9.5	14.5	11.5	15.5	12.5	20.0	17.0	14.0	13.0
29	14.0	12.5	13.0	10.0	15.0	12.0	16.0	12.5	20.5	17.5	14.0	12.0
30	14.0	12.5	13.0	10.0	13.0	11.5	16.0	13.0	20.5	17.5	14.0	12.0
31	---	---	13.5	10.0	---	---	16.0	13.0	21.0	18.0	---	---
MONTH	15.0	8.0	15.0	9.0	15.0	10.0	16.0	10.5	21.0	13.0	21.0	12.0

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA

LOCATION.--Lat 40°40'35", long 122°49'46", in SW¼NE¼ sec.36, T.33 N., R.9 W., Trinity County, on right bank 0.1 mi (0.2 km) upstream from Phillips Gulch, and 2.5 mi (4.0 km) southwest of Lewiston.

DRAINAGE AREA.--30.8 mi^2 (79.8 km^2).

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) above mean sea level (California State Highway Department bench mark).

REMARKS.--Records excellent. No regulation; small diversions above station for domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 115 ft^3/s (3.26 m^3/s) Apr. 8, 1976; gage height, 4.91 ft (1.497 m); maximum gage height, 4.92 ft (1.500 m) Feb. 26, 1976; minimum daily discharge, 4.3 ft (0.12 m^3/s) many days in 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38 ft^3/s (1.08 m^3/s) May 2, gage height, 4.43 ft (1.350 m), no peak above base of 150 ft^3/s (4.25 m^3/s); minimum daily discharge, 4.3 ft^3/s (0.12 m^3/s) on many days during August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	10	10	11	11	13	13	24	12	8.2	4.8	4.8
2	11	10	10	12	11	12	13	28	11	7.6	5.0	4.8
3	10	10	10	14	10	12	13	19	11	6.9	6.6	4.8
4	9.6	10	10	12	11	12	13	17	11	6.6	5.3	4.8
5	9.3	10	10	11	11	12	13	16	11	6.7	5.1	4.7
6	9.2	10	10	11	11	12	13	16	11	6.7	5.0	4.6
7	8.9	10	10	13	11	12	13	15	11	6.4	5.1	4.5
8	8.8	10	10	12	13	12	14	15	11	6.3	5.2	4.6
9	8.8	10	10	13	13	15	14	16	10	6.3	4.9	4.6
10	8.8	10	10	13	12	12	13	16	11	6.2	4.9	4.6
11	9.0	11	10	12	12	12	13	16	11	6.1	4.5	4.6
12	9.1	11	10	12	11	12	13	16	10	5.8	4.3	4.6
13	8.8	11	10	12	11	12	12	15	10	5.8	4.3	4.7
14	8.8	16	10	12	11	12	12	14	10	5.7	4.5	4.8
15	9.2	12	10	12	11	14	12	14	9.7	5.4	4.4	5.1
16	9.3	11	10	12	11	17	12	14	9.3	5.4	4.3	6.5
17	9.2	11	10	12	11	16	12	14	9.1	5.2	4.3	9.5
18	9.3	11	10	11	11	15	12	14	12	5.2	4.5	13
19	9.4	11	10	11	11	15	12	14	12	5.3	4.4	11
20	9.7	11	11	12	11	15	12	14	10	5.6	4.4	9.5
21	9.7	11	11	12	20	15	12	13	9.1	5.4	4.4	7.7
22	9.7	11	10	12	16	16	12	13	8.4	5.4	4.3	7.4
23	9.8	11	10	12	17	17	12	13	8.0	5.4	4.4	7.1
24	10	11	10	12	15	16	11	13	7.8	5.2	4.7	6.5
25	10	11	10	11	14	15	12	13	7.5	5.4	6.1	6.5
26	10	11	11	11	13	15	12	14	7.3	5.5	7.0	6.5
27	10	10	11	11	13	14	11	13	7.1	5.2	6.1	6.8
28	10	10	10	11	13	15	11	13	7.0	5.1	5.6	10
29	10	10	11	11	---	14	11	13	6.8	5.2	5.4	10
30	10	10	11	11	---	14	12	12	7.1	5.1	4.8	8.5
31	10	---	11	11	---	14	---	12	---	4.9	4.9	---
TOTAL	297.4	322	317	365	346	429	370	469	289.2	181.2	153.5	197.1
MEAN	9.59	10.7	10.2	11.8	12.4	13.8	12.3	15.1	9.64	5.85	4.95	6.57
MAX	12	16	11	14	20	17	14	28	12	8.2	7.0	13
MIN	8.8	10	10	11	10	12	11	12	6.8	4.9	4.3	4.5
AC-FT	590	639	629	724	686	851	734	930	574	359	304	391

CAL YR 1976 TOTAL 6705.4 MEAN 18.3 MAX 86 MIN 8.5 AC-FT 13300
WTR YR 1977 TOTAL 3736.4 MEAN 10.2 MAX 28 MIN 4.3 AC-FT 7410

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 RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 684 mg/L Feb. 26, 1977; minimum daily mean, 1 mg/L Aug. 22, 23, 1977.
SEDIMENT LOADS: Maximum daily, 142 tons (129 tonnes) Feb. 26, 1977; minimum daily, 0.01 ton (0.009 tonne) Aug. 22, 23, 1977.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 196 mg/L Feb. 21; minimum daily mean, 1 mg/L Aug. 22, 23.
SEDIMENT LOADS: Maximum daily, 14 tons (13 tonnes) May 1; minimum daily, 0.01 ton (0.009 tonne) Aug. 22, 23.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.5	---	---	---	---	---	---	10.0	---	---	17.5	---
2	12.0	7.5	1.5	2.0	---	3.0	---	---	---	---	---	---
3	---	---	---	---	2.5	---	---	9.0	11.5	---	---	---
4	---	---	---	---	---	---	---	---	---	18.0	---	18.0
5	---	7.0	---	---	5.0	---	13.0	11.0	---	---	---	---
6	---	---	---	---	---	---	---	---	14.0	---	---	---
7	---	---	4.0	---	---	6.0	---	---	---	---	---	---
8	12.0	---	---	---	6.0	---	10.0	---	---	17.0	---	13.5
9	---	---	3.0	---	---	6.0	---	10.0	---	---	---	---
10	---	---	---	1.0	---	---	---	---	---	---	---	---
11	---	9.0	---	---	---	---	---	---	---	---	---	18.0
12	---	---	---	2.0	---	5.0	---	---	---	---	---	---
13	---	---	---	3.0	---	---	---	---	---	---	---	---
14	---	8.0	---	3.0	---	5.0	---	---	---	---	---	---
15	7.0	---	---	---	---	2.0	---	---	16.0	---	---	14.0
16	---	---	2.0	---	---	---	---	---	---	---	---	12.5
17	---	---	---	---	---	---	13.0	---	---	---	---	12.0
18	---	---	---	---	---	---	---	---	---	17.0	19.0	---
19	---	---	---	---	---	---	---	---	---	---	---	14.0
20	---	---	---	---	5.0	---	---	---	---	---	---	14.0
21	10.0	---	1.0	---	6.0	---	---	---	---	---	---	---
22	---	---	---	---	3.5	9.0	---	---	---	---	---	---
23	---	---	---	5.0	3.5	6.0	---	---	---	---	---	---
24	---	---	---	---	---	4.5	---	---	---	---	19.5	---
25	---	---	---	3.0	---	---	10.0	---	---	---	15.0	---
26	---	---	---	---	---	---	---	12.0	---	---	---	---
27	---	---	---	4.0	---	---	---	---	---	---	---	13.0
28	---	---	---	---	---	---	---	---	---	---	---	14.5
29	7.0	3.0	2.0	---	---	---	---	---	---	---	---	14.5
30	---	---	4.0	3.0	---	---	---	---	---	---	---	---
31	---	---	---	4.0	---	3.0	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	12	45	2.4	10	3	.08	10	4	.11
2	11	102	3.1	10	3	.08	10	2	.05
3	10	27	.73	10	3	.08	10	3	.08
4	9.6	12	.31	10	2	.05	10	4	.11
5	9.3	7	.18	10	2	.05	10	6	.16
6	9.2	5	.12	10	2	.05	10	7	.19
7	8.9	4	.10	10	2	.05	10	8	.22
8	8.8	4	.10	10	2	.05	10	9	.24
9	8.8	4	.10	10	2	.05	10	10	.27
10	8.8	4	.10	10	2	.05	10	10	.27
11	9.0	4	.10	11	9	.27	10	9	.24
12	9.1	4	.10	11	7	.21	10	9	.24
13	8.8	3	.07	11	5	.15	10	9	.24
14	8.8	3	.07	16	42	2.0	10	9	.24
15	9.2	3	.07	12	11	.36	10	8	.22
16	9.3	3	.08	11	9	.27	10	8	.22
17	9.2	3	.07	11	8	.24	10	9	.24
18	9.3	3	.08	11	7	.21	10	10	.27
19	9.4	2	.05	11	6	.18	10	11	.30
20	9.7	2	.05	11	6	.18	11	12	.36
21	9.7	2	.05	11	6	.18	11	13	.39
22	9.7	2	.05	11	7	.21	10	8	.22
23	9.8	2	.05	11	8	.24	10	7	.19
24	10	2	.05	11	10	.30	10	10	.27
25	10	2	.05	11	10	.30	10	9	.24
26	10	2	.05	11	11	.33	11	8	.24
27	10	2	.05	10	12	.32	11	7	.21
28	10	2	.05	10	12	.32	10	9	.24
29	10	2	.05	10	11	.30	11	10	.30
30	10	2	.05	10	7	.19	11	7	.21
31	10	3	.08	---	---	---	11	5	.15
TOTAL	297.4	---	8.56	322	---	7.35	317	---	6.93

	JANUARY			FEBRUARY			MARCH		
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	11	7	.21	11	3	.09	13	5	.18
2	12	17	.55	11	6	.18	12	4	.13
3	14	18	.68	10	8	.22	12	4	.13
4	12	12	.39	11	7	.21	12	4	.13
5	11	9	.27	11	7	.21	12	4	.13
6	11	16	.47	11	7	.21	12	4	.13
7	13	22	.77	11	12	.36	12	5	.16
8	12	20	.65	13	20	.70	12	5	.16
9	13	23	.81	13	15	.53	15	29	1.2
10	13	22	.77	12	13	.42	12	8	.26
11	12	14	.45	12	12	.39	12	5	.16
12	12	8	.26	11	12	.36	12	4	.13
13	12	5	.16	11	12	.36	12	4	.13
14	12	4	.13	11	11	.33	12	4	.13
15	12	4	.13	11	11	.33	14	41	1.7
16	12	7	.23	11	11	.33	17	26	1.2
17	12	10	.32	11	11	.33	16	12	.52
18	11	12	.36	11	11	.33	15	8	.32
19	11	7	.21	11	10	.30	15	6	.24
20	12	5	.16	11	11	.33	15	5	.20
21	12	8	.26	20	196	11	15	5	.20
22	12	5	.16	16	20	.86	16	5	.22
23	12	6	.19	17	23	1.1	17	12	.55
24	12	8	.26	15	13	.53	16	8	.35
25	11	11	.33	14	8	.30	15	7	.28
26	11	12	.36	13	6	.21	15	6	.24
27	11	10	.30	13	5	.18	14	6	.23
28	11	10	.30	13	6	.21	15	6	.24
29	11	11	.33	---	---	---	14	6	.23
30	11	9	.27	---	---	---	14	5	.19
31	11	4	.12	---	---	---	14	5	.19
TOTAL	365	---	10.86	346	---	20.91	429	---	10.26

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	13	5	.18	24	190	14	12	7	.23
2	13	5	.18	28	87	7.4	11	7	.21
3	13	5	.18	19	22	1.1	11	6	.18
4	13	5	.18	17	15	.69	11	6	.18
5	13	6	.21	16	12	.52	11	5	.15
6	13	7	.25	16	12	.52	11	4	.12
7	13	8	.28	15	11	.45	11	4	.12
8	14	17	.64	15	10	.41	11	4	.12
9	14	14	.53	16	16	.69	10	4	.11
10	13	11	.39	16	11	.48	11	5	.15
11	13	11	.39	16	10	.43	11	5	.15
12	13	11	.39	16	10	.43	10	4	.11
13	12	10	.32	15	9	.36	10	4	.11
14	12	10	.32	14	9	.34	10	4	.11
15	12	10	.32	14	9	.34	9.7	4	.10
16	12	10	.32	14	8	.30	9.3	4	.10
17	12	9	.29	14	8	.30	9.1	4	.10
18	12	9	.29	14	9	.34	12	58	2.8
19	12	8	.26	14	9	.34	12	50	1.8
20	12	8	.26	14	8	.30	10	12	.32
21	12	8	.26	13	8	.28	9.1	8	.20
22	12	8	.26	13	9	.32	8.4	7	.16
23	12	8	.26	13	10	.35	8.0	7	.15
24	11	7	.21	13	10	.35	7.8	7	.15
25	12	8	.26	13	9	.32	7.5	7	.14
26	12	8	.26	14	10	.38	7.3	7	.14
27	11	8	.24	13	10	.35	7.1	7	.13
28	11	7	.21	13	9	.32	7.0	6	.11
29	11	5	.15	13	8	.28	6.8	6	.11
30	12	7	.23	12	8	.26	7.1	6	.12
31	---	---	---	12	7	.23	---	---	---
TOTAL	370	---	8.52	469	---	33.18	289.2	---	8.68

	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	8.2	7	.15	4.8	3	.04	4.8	3	.04
2	7.6	7	.14	5.0	4	.05	4.8	3	.04
3	6.9	6	.11	6.6	6	.11	4.8	3	.04
4	6.6	6	.11	5.3	4	.06	4.8	3	.04
5	6.7	6	.11	5.1	3	.04	4.7	3	.04
6	6.7	7	.13	5.0	3	.04	4.6	4	.05
7	6.4	8	.14	5.1	3	.04	4.5	4	.05
8	6.3	9	.15	5.2	3	.04	4.6	5	.06
9	6.3	9	.15	4.9	3	.04	4.6	4	.05
10	6.2	8	.13	4.9	3	.04	4.6	3	.04
11	6.1	8	.13	4.5	2	.02	4.6	2	.02
12	5.8	7	.11	4.3	2	.02	4.6	2	.02
13	5.8	7	.11	4.3	2	.02	4.7	2	.03
14	5.7	7	.11	4.5	2	.02	4.8	2	.03
15	5.4	6	.09	4.4	2	.02	5.1	2	.03
16	5.4	6	.09	4.3	2	.02	6.5	9	.18
17	5.2	6	.08	4.3	2	.02	9.5	39	1.4
18	5.2	5	.07	4.5	2	.02	13	47	2.0
19	5.3	5	.07	4.4	2	.02	11	24	.78
20	5.6	5	.08	4.4	2	.02	9.5	10	.25
21	5.4	4	.06	4.4	2	.02	7.7	6	.12
22	5.4	4	.06	4.3	1	.01	7.4	6	.12
23	5.4	4	.06	4.4	1	.01	7.1	5	.10
24	5.2	4	.06	4.7	2	.03	6.5	5	.09
25	5.4	4	.06	6.1	8	.13	6.5	5	.09
26	5.5	4	.06	7.0	7	.13	6.5	4	.07
27	5.2	3	.04	6.1	4	.07	6.8	5	.09
28	5.1	3	.04	5.6	4	.06	10	18	.53
29	5.2	3	.04	5.4	4	.06	10	4	.11
30	5.1	3	.04	4.8	3	.04	8.5	2	.05
31	4.9	3	.04	4.9	3	.04	---	---	---
TOTAL	181.2	---	2.82	153.5	---	1.30	197.1	---	6.56
YEAR	3736.4		125.93						

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON CA--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT								
02...	1000	12.0	10	95	2.6	--	--	--
NOV								
14...	0800	7.0	19	90	4.6	--	--	--
FEB								
21...	0930	6.0	20	650	35	44	64	80
21...	1230	6.0	23	190	12	--	--	--
21...	1500	6.0	25	215	15	--	--	--
22...	0955	3.5	16	15	.65	--	--	--
23...	0930	3.5	18	36	1.7	--	--	--
MAR								
15...	1430	2.0	16	122	5.3	--	--	--
MAY								
01...	1000	10.0	20	89	4.8	--	--	--
01...	1700	10.0	30	355	29	22	33	46
SEP								
28...	1300	14.0	11	42	1.2	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT							
02...	--	--	98	99	100	--	--
NOV							
14...	--	--	84	88	94	100	--
FEB							
21...	91	96	98	99	99	100	--
21...	--	--	85	89	93	99	100
21...	--	--	90	95	97	100	--
22...	--	--	94	100	--	--	--
23...	--	--	98	98	100	--	--
MAR							
15...	--	--	92	94	98	100	--
MAY							
01...	--	--	94	97	99	100	--
01...	63	79	90	95	97	100	--
SEP							
28...	--	--	94	97	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)
FEB						
23...	1015	3.5	21	18	21	.34

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM
FEB						
23...	3	20	35	51	96	100

11526500 NORTH FORK TRINITY RIVER AT HELENA, CA

LOCATION.--Lat 40°46'55", long 123°07'38", in SW¼SW¼ sec.21, T.34 N., R.11 W., Trinity County, on right bank 500 ft (152 m) downstream from East Fork of North Fork Trinity River, 0.6 mi (1.0 km) north of Helena, 1.0 mi (1.6 km) upstream from mouth, and 6 mi (10 km) northwest of Junction City.

DRAINAGE AREA.--151 mi^2 (391 km^2).

PERIOD OF RECORD.--August 1911 to September 1913, January 1957 to current year.

REVISED RECORDS.--WSP 1565: 1912-13.

GAGE.--Water-stage recorder. Altitude of gage is 1,380 ft (421 m), from topographic map. August 1911 to September 1913, at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--No known regulation or diversion above station.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by the Geological Survey.

AVERAGE DISCHARGE.--22 years, 435 ft^3/s (12.32 m^3/s), 315,200 acre-ft/yr (389 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft^3/s (1,010 m^3/s) Dec. 22, 1964, gage height, 27.93 ft (8.513 m) from floodmarks, from rating curve extended above 9,000 ft^3/s (255 m^3/s) on basis of slope-area measurement of maximum flow; minimum daily, 7.5 ft^3/s (0.21 m^3/s) Sept. 26, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 764 ft^3/s (21.6 m^3/s) Sept. 28, gage height, 8.19 ft (2.496 m); minimum daily, 11 ft^3/s (0.31 m^3/s) on many days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	26	35	32	45	123	102	204	202	39	12	14
2	90	26	35	39	42	109	102	211	180	37	12	13
3	54	26	34	45	40	99	105	194	159	34	12	13
4	45	26	34	43	41	88	134	171	179	33	12	13
5	40	26	34	37	40	85	196	145	220	32	12	13
6	36	26	33	33	44	89	207	134	258	31	12	12
7	34	26	33	35	45	96	254	127	280	30	12	12
8	32	26	33	34	59	124	303	117	235	30	12	12
9	31	26	35	37	76	192	210	116	189	29	12	11
10	30	26	33	39	62	170	166	118	166	28	11	11
11	30	28	33	39	60	147	150	120	129	28	11	11
12	29	34	32	45	59	138	153	126	109	27	11	11
13	28	33	32	46	59	124	176	123	121	26	11	11
14	28	82	32	45	57	111	166	133	110	25	11	11
15	28	139	31	44	56	112	160	133	103	25	11	11
16	27	90	31	43	57	110	196	122	98	24	11	13
17	27	63	31	43	54	110	165	114	94	23	11	29
18	27	56	31	47	50	109	140	110	89	22	11	137
19	27	50	31	52	48	106	125	109	91	22	11	251
20	27	46	32	61	53	109	121	119	80	21	11	141
21	27	42	32	64	134	113	119	156	78	20	11	86
22	27	40	31	68	133	136	115	170	77	20	11	59
23	27	38	31	66	135	169	110	151	67	19	11	46
24	27	37	31	59	125	154	112	127	62	18	12	67
25	32	36	31	53	110	136	121	117	57	18	18	58
26	28	36	31	49	100	130	112	167	53	17	25	46
27	27	35	31	47	100	140	104	164	49	16	18	43
28	27	35	31	45	123	132	108	132	45	15	16	549
29	26	35	32	43	---	123	114	127	41	14	15	352
30	26	35	32	43	---	115	131	135	38	14	14	171
31	26	---	30	45	---	106	---	167	---	13	14	---
TOTAL	1008	1250	998	1421	2007	3805	4477	4359	3659	750	394	2227
MEAN	32.5	41.7	32.2	45.8	71.7	123	149	141	122	24.2	12.7	74.2
MAX	90	139	35	68	135	192	303	211	280	39	25	549
MIN	26	26	30	32	40	85	102	109	38	13	11	11
AC-FT	2000	2480	1980	2820	3980	7550	8880	8650	7260	1490	781	4420

CAL YR 1976	TOTAL	73066	MEAN 200	MAX	1880	MIN 26	AC-FT	144900
WTR YR 1977	TOTAL	26355	MEAN 72.2	MAX	549	MIN 11	AC-FT	52280

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, Trinity National Forest, on left bank 500 ft (152 m) upstream from Cedar Flat Creek, 700 ft (213 m) upstream from highway bridge at Cedar Flat, and 2.3 mi (3.7 km) southeast of town of Burnt Ranch.

DRAINAGE AREA.--1,439 mi^2 (3,727 km^2).

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.

GAGE.--Water-stage recorder. Datum of gage is 944.05 ft (287.746 m) above mean sea level. Oct. 1, 1931, to Jan. 19, 1940, at site 2 mi (3 km) upstream at different datum.

REMARKS.--Records good. Flow regulated by Clair Engle Lake (station 11525400) 64 mi (103 km) upstream since November 1960. Small diversions above station for mining and irrigation.

AVERAGE DISCHARGE.--13 years (water years 1932-40, 1957-60), 2,785 ft^3/s (78.87 m^3/s), 2,016,000 acre-ft/yr (2.49 km^3/yr); 17 years (water years 1961-77), 1,616 ft^3/s (45.77 m^3/s), 1,171,000 acre-ft/yr (1.44 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,500 ft^3/s (2,310 m^3/s) Feb. 25, 1958, gage height, 30.50 ft (9.296 m), from rating curve extended above 40,000 ft^3/s (1,130 m^3/s) on basis of slope-area measurement at gage height 43.2 ft (13.17 m); minimum, 82 ft^3/s (2.32 m^3/s) Aug. 31, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 43.2 ft (13.17 m) from floodmarks, discharge, 172,000 ft^3/s (4,870 m^3/s), on basis of slope-area measurement of maximum flow).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,710 ft^3/s (48.4 m^3/s) Sept. 28, gage height, 5.44 ft (1.658 m); minimum daily, 180 ft^3/s (5.10 m^3/s) Aug. 21-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	346	322	286	303	499	460	595	632	239	188	196
2	440	346	309	348	300	462	449	877	617	240	185	196
3	382	346	277	385	293	444	451	768	558	229	185	232
4	349	346	273	384	292	421	481	700	562	221	190	244
5	331	343	274	337	291	409	586	601	640	218	190	244
6	316	339	273	307	293	409	655	553	686	217	183	244
7	310	339	273	285	297	415	689	533	764	219	185	232
8	304	339	274	282	314	447	834	496	723	212	185	229
9	300	337	276	276	374	568	748	473	611	204	185	226
10	295	338	276	282	365	606	618	492	566	207	188	226
11	294	355	276	296	344	531	558	503	505	204	190	226
12	290	381	273	319	336	506	541	527	444	198	185	226
13	288	382	270	324	332	481	564	512	444	196	185	229
14	288	483	270	325	330	454	583	514	441	193	183	229
15	285	606	267	320	327	446	558	527	413	193	183	226
16	302	592	264	315	326	539	596	524	393	190	183	232
17	333	484	261	311	324	566	591	496	384	185	183	249
18	335	431	263	314	316	519	533	467	375	185	183	404
19	335	398	265	320	309	495	489	476	409	185	183	725
20	335	374	264	333	315	487	464	469	390	188	183	690
21	335	358	268	347	417	503	462	517	359	193	180	466
22	335	352	272	359	602	552	455	564	345	188	180	364
23	333	343	273	369	550	641	445	575	328	190	180	319
24	336	336	270	361	602	668	436	524	303	190	180	322
25	351	332	269	343	513	616	443	480	288	188	193	375
26	352	329	273	327	464	560	460	504	277	190	221	319
27	349	326	270	317	442	555	430	625	267	190	223	297
28	350	323	270	311	466	553	420	539	259	185	204	929
29	346	326	271	304	---	527	442	494	251	183	198	1240
30	346	324	282	298	---	503	464	496	240	188	198	700
31	346	---	284	300	---	479	---	545	---	185	198	---
TOTAL	10204	11254	8502	9985	10437	15861	15905	16966	13474	6193	5860	11036
MEAN	329	375	274	322	373	512	530	547	449	200	189	368
MAX	440	606	322	385	602	668	834	877	764	240	223	1240
MIN	285	323	261	276	291	409	420	467	240	183	180	196
AC-FT	20240	22320	16860	19810	20700	31460	31550	33650	26730	12280	11620	21890

CAL YR 1976 TOTAL 268265 MEAN 733 MAX 4760 MIN 252 AC-FT 532100
WTR YR 1977 TOTAL 135677 MEAN 372 MAX 1240 MIN 180 AC-FT 269100

11527000 TRINITY RIVER NEAR BURNT RANCH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.
CHEMICAL ANALYSES: Water years 1959-66.
WATER TEMPERATURES: Water years 1962-64, 1967, 1969 to current year.
SEDIMENT RECORDS: Water year 1968.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1961 to September 1964, October 1966 to September 1967, October 1968 to current year.

INSTRUMENTATION.--Temperature recorder since October 1961.

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, 23.5°C June 29, Aug. 10, 11; minimum recorded, 2.5°C Dec. 19-22.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	10.5	4.5	4.0			4.5	4.0	6.5	6.0
2	18.5	17.5	11.5	11.0	4.5	4.5			4.0	3.0	6.5	5.5
3	17.5	16.5	11.5	10.5	4.5	4.0			4.0	3.0	7.0	6.0
4	17.5	15.5	11.5	10.0	4.5	4.0			4.0	3.0	9.0	6.0
5	17.5	15.5	10.5	9.5	4.5	4.5			4.5	4.0	9.5	7.5
6	17.5	16.5	11.0	10.0	4.5	4.0			5.5	4.5	10.0	8.0
7	18.0	17.5	11.0	9.5	4.0	4.0			6.5	5.0	9.5	9.0
8	18.0	17.5	10.5	9.0	5.0	4.0			7.0	7.0	10.0	9.0
9	17.5	16.5	10.0	9.0	5.0	5.0			7.0	6.5	9.5	8.0
10	17.5	16.0	11.0	10.0	5.0	4.5			7.0	6.5	9.5	7.5
11	16.0	15.5	11.0	11.0	4.5	4.0			7.0	6.5	9.5	7.5
12	16.0	14.5	11.0	10.5	4.0	3.5			7.0	7.0	9.0	8.0
13	15.5	13.5	11.0	10.5	3.5	3.5			7.5	7.0	9.0	7.5
14	15.0	13.5	11.0	10.5	3.5	3.5			7.0	7.0	8.5	7.5
15	14.0	12.5	11.0	10.5	3.5	3.5			7.0	6.5	8.0	7.5
16	14.0	13.0	11.0	11.0	3.5	3.0			7.0	6.0	9.0	8.0
17	14.0	12.0	11.0	11.0	3.5	3.5			7.0	6.0	10.5	8.0
18	13.5	12.0	11.5	11.5	3.5	3.0			7.0	6.0	10.0	8.5
19	13.5	11.5	11.5	10.5	3.0	2.5			7.5	6.0	12.0	9.5
20	13.5	11.5	10.5	10.0	2.5	2.5			7.5	7.5	13.0	10.0
21	12.5	11.0	10.0	9.5	2.5	2.5			7.5	6.0	13.5	9.0
22	12.5	11.5	9.5	9.5	3.5	2.5			6.5	5.5	13.5	9.5
23	12.5	11.0	9.5	9.0	3.5	3.5			6.5	6.0	11.0	9.5
24	12.5	11.0	9.0	8.5	3.5	3.5			6.5	6.0	10.0	9.0
25	11.5	11.5	8.5	8.0	4.5	3.5			7.0	6.0	12.0	8.5
26	11.5	11.5	8.0	6.5	4.5	4.0			7.5	6.5	13.0	9.0
27	11.5	10.0	6.5	5.5	4.0	4.0			8.5	7.0	11.0	8.5
28	10.5	9.0	5.5	4.5	---	---			8.5	6.5	11.0	8.5
29	10.5	9.0	4.5	4.0	---	---			---	---	10.0	9.0
30	11.0	10.5	4.0	4.0	---	---			---	---	10.5	8.0
31	11.5	10.5	---	---	---	---			---	---	11.5	7.5
MONTH	19.0	9.0	11.5	4.0	5.0	2.5			8.5	3.0	13.5	5.5

11527000 TRINITY RIVER NEAR BURNT RANCH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	9.5	13.5	11.5	18.0	16.5	21.5	20.5	---	---	22.5	20.5
2	13.0	9.5	13.5	11.5	18.0	14.5	21.0	20.0	---	---	22.5	21.0
3	14.5	9.5	12.5	11.5	17.5	15.0	21.0	19.5	---	---	23.0	20.5
4	15.0	10.5	12.5	11.0	18.5	15.0	20.5	19.0	---	---	23.0	21.5
5	15.0	11.0	12.5	11.0	20.0	17.0	20.5	18.5	---	---	22.5	21.0
6	15.0	11.0	12.0	10.5	20.0	18.0	21.5	18.5	---	---	22.5	20.5
7	15.0	11.5	13.0	10.5	19.0	18.0	21.5	19.5	---	---	22.5	21.0
8	12.5	10.5	15.0	10.5	19.0	17.0	21.5	19.5	---	---	22.5	21.0
9	12.5	10.0	13.5	12.0	19.0	17.5	---	---	23.0	21.0	22.0	20.0
10	13.5	10.0	12.5	12.0	18.5	17.5	---	---	23.5	21.0	22.0	20.0
11	14.0	10.0	12.5	10.5	18.5	16.5	---	---	23.5	21.5	22.0	20.0
12	15.0	10.0	14.5	11.0	19.0	16.5	---	---	23.0	21.0	22.0	20.0
13	14.0	11.5	14.5	11.5	18.5	17.5	---	---	23.0	21.0	21.0	19.5
14	14.5	10.5	14.5	12.5	19.5	17.5	---	---	23.0	20.5	20.5	19.5
15	15.0	11.0	13.5	12.0	20.5	18.5	---	---	23.0	20.5	20.0	18.5
16	14.5	11.5	13.0	11.5	20.0	19.5	---	---	23.0	21.0	18.5	18.0
17	14.5	10.5	15.0	12.0	19.5	19.0	---	---	22.5	21.0	18.0	17.5
18	14.5	10.0	13.0	12.5	19.5	19.0	---	---	23.0	21.0	18.5	17.0
19	15.0	10.0	16.5	12.5	19.5	19.0	---	---	23.0	21.0	18.0	17.5
20	14.5	11.0	17.5	14.0	19.5	19.0	---	---	22.5	21.0	19.0	17.5
21	15.5	11.5	17.0	14.5	20.5	18.5	---	---	22.5	21.0	19.0	17.0
22	15.0	12.0	16.0	14.0	21.0	19.0	---	---	23.0	20.5	18.5	16.5
23	16.0	12.5	15.0	13.0	21.0	19.5	---	---	23.0	20.5	18.5	16.5
24	15.0	12.5	16.5	13.0	21.5	19.5	---	---	22.5	22.0	18.5	16.5
25	15.0	12.0	16.0	14.0	22.0	20.0	---	---	22.0	21.0	18.5	15.5
26	15.0	11.0	15.5	15.0	22.0	20.0	---	---	22.5	20.5	18.5	16.0
27	16.0	11.5	17.0	13.0	22.5	20.0	---	---	22.5	21.0	18.0	17.0
28	14.0	13.0	17.5	13.0	23.0	20.5	---	---	23.0	21.0	17.0	16.5
29	14.0	13.0	18.0	13.5	23.5	21.0	---	---	23.0	21.5	16.5	15.0
30	14.5	13.0	18.0	14.5	21.5	21.0	---	---	23.0	21.5	16.5	15.0
31	---	---	18.5	15.5	---	---	---	---	22.5	21.0	---	---
MONTH	16.0	9.5	18.5	10.5	23.5	14.5	---	---	---	---	23.0	15.0

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, Trinity National Forest, on left bank 0.3 mi (0.5 km) downstream from Big Creek, 3.0 mi (4.8 km) northeast of Hyampom, and 3.5 mi (5.6 km) downstream from Hayfork Creek.

DRAINAGE AREA.--764 mi^2 (1,979 km^2).

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) above mean sea level.

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

AVERAGE DISCHARGE.--12 years, 1,476 ft^3/s (41.80 m^3/s), 1,069,000 acre-ft/yr (1.32 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,300 ft^3/s (1,960 m^3/s) Jan. 16, 1974, gage height, 26.68 ft (8.132 m), from rating curve extended above 23,000 ft^3/s (651 m^3/s) on basis of flood-routing study at gage height 30.45 ft (9.281 m); minimum daily, 14 ft^3/s (0.40 m^3/s) Aug. 24, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 30.45 ft (9.281 m) from floodmarks, discharge, 88,000 ft^3/s (2,490 m^3/s) on basis of flood-routing study.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 620 ft^3/s (17.6 m^3/s) Feb. 22, gage height, 5.07 ft (1.545 m), no peak above base of 8,600 ft^3/s (244 m^3/s); minimum daily, 14 ft^3/s (0.40 m^3/s) Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	72	89	93	124	350	308	201	138	48	21	20
2	76	72	89	131	128	329	295	247	131	48	21	20
3	76	72	89	165	121	302	283	270	128	47	20	19
4	78	72	89	210	115	276	270	264	121	47	20	18
5	74	72	89	174	121	259	283	242	118	44	19	18
6	74	70	89	142	118	242	322	220	112	43	18	18
7	72	68	89	106	124	236	322	220	106	42	18	18
8	67	68	89	104	157	264	336	210	104	41	18	17
9	65	68	89	106	231	490	329	196	102	39	18	17
10	65	68	89	109	226	547	289	191	102	38	18	16
11	65	74	89	121	201	458	259	201	102	36	18	16
12	65	91	89	165	187	422	242	210	102	35	17	16
13	65	93	87	191	174	380	231	236	102	35	17	16
14	65	138	85	178	165	343	226	231	97	33	16	16
15	65	201	85	157	161	322	215	210	95	32	16	16
16	63	178	84	145	153	356	210	201	89	32	16	16
17	63	145	87	135	145	350	206	191	84	31	16	20
18	63	124	87	131	142	350	191	187	82	30	16	25
19	63	112	82	131	138	336	187	191	78	29	16	68
20	63	106	82	142	142	343	178	191	89	28	16	85
21	63	104	84	157	329	356	169	182	87	27	15	68
22	63	100	85	169	553	368	161	178	82	26	15	58
23	63	97	87	178	458	399	153	174	74	25	15	52
24	63	95	87	178	432	432	149	169	68	25	14	51
25	67	93	84	161	362	422	149	169	65	25	16	50
26	68	91	85	142	308	405	153	169	62	25	20	47
27	70	91	83	138	283	427	153	174	58	24	21	45
28	74	91	84	131	308	442	149	174	54	23	21	72
29	74	89	84	124	---	412	149	161	52	22	21	106
30	72	89	89	118	---	374	157	153	50	22	21	124
31	72	---	91	118	---	336	---	145	---	22	20	---
TOTAL	2110	2904	2690	4450	6106	11328	6724	6158	2734	1024	554	1148
MEAN	68.1	96.8	86.8	144	218	365	224	199	91.1	33.0	17.9	38.3
MAX	78	201	91	210	553	547	336	270	138	48	21	124
MIN	63	68	82	93	115	236	149	145	50	22	14	16
AC-FT	4190	5760	5340	8830	12110	22470	13340	12210	5420	2030	1100	2280

CAL YR 1976 TOTAL 190859 MEAN 521 MAX 9160 MIN 58 AC-FT 378600
WTR YR 1977 TOTAL 47930 MEAN 131 MAX 553 MIN 14 AC-FT 95070

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1967-70.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.
SEDIMENT RECORDS: October 1966 to September 1970.

INSTRUMENTATION.--Temperature recorder since October 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 29.0°C June 30, July 1, 3, 1967, Aug. 1, 2, 1968; minimum, 0.0°C on several days in 1965, 1967-68, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.5°C June 15, July 15, 16; minimum, 2.5°C Jan. 2, 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 09...	1430	18	282	8.6	23.0	10.4	130	26	35

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 09...	11	6.7	10	.3	.7	130	0	110	25

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 09...	11	.0	12	166	.23	8.29	.01	50	10

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	18.0	16.5	12.5	9.0	5.5	7.0	6.5	9.5	5.5	9.5	6.5
2	19.0	16.0	17.0	13.0	8.5	5.5	6.5	2.5	8.5	3.5	8.5	6.0
3	19.5	16.0	16.0	12.5	8.5	5.5	6.0	4.5	7.5	3.0	10.0	7.0
4	20.5	15.0	16.0	11.5	8.5	6.0	6.0	4.5	8.5	4.0	11.0	5.0
5	20.5	15.0	14.5	10.5	8.0	5.5	6.5	4.0	8.0	5.0	11.5	5.5
6	21.5	16.0	15.5	11.0	8.5	5.0	6.0	3.0	10.5	7.0	10.5	5.5
7	21.5	16.0	15.5	10.5	8.5	5.5	6.0	3.0	10.0	6.0	9.0	7.5
8	21.5	16.5	13.5	10.5	9.0	6.0	6.0	3.0	9.5	8.5	11.5	8.5
9	21.0	16.0	14.0	10.5	9.0	7.0	6.0	2.5	10.5	8.0	9.5	7.0
10	19.5	14.5	14.5	12.5	9.0	6.5	5.5	4.0	11.0	7.5	10.0	6.0
11	20.5	16.5	13.0	12.5	8.5	5.5	6.0	5.0	11.5	7.5	9.0	6.0
12	20.5	14.5	13.0	12.0	8.0	5.0	7.0	5.0	11.5	8.0	9.5	7.0
13	19.5	14.0	12.5	11.5	8.0	5.0	7.0	5.5	11.5	8.0	10.0	6.0
14	19.0	14.0	12.0	11.0	8.0	5.0	7.0	5.0	12.0	7.5	9.5	5.5
15	19.5	13.5	13.5	11.5	8.0	4.5	7.0	4.5	12.0	7.0	7.0	5.5
16	19.5	14.0	14.0	12.5	8.0	5.0	7.0	4.0	12.0	7.0	9.0	5.0
17	19.5	13.0	14.0	13.0	7.5	4.0	7.0	3.5	10.5	6.5	11.0	5.5
18	19.0	12.5	13.0	12.5	7.0	3.5	6.5	3.5	11.5	6.5	9.5	6.0
19	19.0	13.0	13.0	12.0	7.0	3.5	6.5	3.5	12.0	6.0	12.5	7.5
20	18.5	13.0	13.0	10.5	6.5	3.5	6.5	4.5	10.5	8.0	13.5	8.5
21	18.5	14.0	13.0	10.5	6.0	3.5	7.0	5.0	8.5	7.0	14.0	7.0
22	18.0	13.0	13.0	10.5	7.0	5.0	8.0	6.0	9.0	7.0	14.5	7.5
23	18.0	13.5	12.5	10.0	8.0	5.0	8.0	5.5	8.0	7.0	10.5	8.5
24	15.0	12.5	12.0	9.5	7.0	4.5	7.5	5.0	8.5	6.0	9.5	7.5
25	16.0	13.5	10.5	9.5	8.0	5.5	8.0	4.5	9.5	6.0	12.5	7.0
26	17.0	13.0	11.0	8.0	7.0	4.5	7.5	3.5	9.5	6.0	13.5	8.0
27	16.0	11.0	9.5	6.5	8.5	4.5	7.5	3.5	11.0	7.0	11.5	8.0
28	15.5	10.5	9.5	6.5	7.0	3.5	7.5	3.5	9.0	7.0	11.0	6.5
29	15.0	11.5	9.5	5.5	8.5	7.0	7.5	3.0	---	---	10.0	6.0
30	16.5	13.0	9.0	5.5	8.0	7.0	7.0	3.0	---	---	11.0	6.5
31	16.0	12.5	---	---	7.5	7.0	8.5	5.5	---	---	12.0	5.0
MONTH	21.5	10.5	17.0	5.5	9.0	3.5	8.5	2.5	12.0	3.0	14.5	5.0

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

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, in Hoopa Valley Indian Reservation, on left bank at Hoopa, 0.4 mi (0.6 km) upstream from Supply Creek.

DRAINAGE AREA.--2,853 mi^2 (7,389 km^2), revised.

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.

GAGE.--Water-stage recorder. Datum of gage is 274.82 ft (83.765 m) above mean sea level. 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 including those for period of no gage-height record, June 26 to July 26. Flow regulated by Clair Engle Lake (station 11525400) 84 mi (135 km) upstream since November 1960. Small diversions above station for mining and irrigation.

AVERAGE DISCHARGE (unadjusted).--50 years (water years 1912-13, 1917-18, 1932-77), 5,314 ft^3/s (150.5 m^3/s), 3,850,000 acre-ft/yr (4.75 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 231,000 ft^3/s (6,540 m^3/s) Dec. 22, 1964, gage height, 57.0 ft (17.37 m) present site and datum, from floodmarks; minimum, 162 ft^3/s (4.59 m^3/s) Oct. 4, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,690 ft^3/s (76.2 m^3/s) Mar. 9, gage height, 15.59 ft (4.752 m), no peak above base of 22,000 ft^3/s (623 m^3/s); minimum daily, 244 ft^3/s (6.91 m^3/s) Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	551	581	593	546	644	1490	1420	1200	1060	408	272	292
2	576	582	591	792	653	1370	1370	1540	1090	405	271	289
3	697	585	561	1020	645	1320	1340	1680	1020	402	264	287
4	620	588	538	989	626	1260	1370	1660	972	398	259	330
5	588	583	535	870	620	1170	1570	1440	997	392	274	335
6	560	575	531	750	620	1120	1750	1340	1030	390	271	334
7	541	568	531	666	631	1120	1810	1300	1090	387	266	325
8	531	565	534	603	689	1320	1970	1220	1090	382	261	313
9	520	565	558	590	805	2170	1910	1160	997	373	264	310
10	510	565	560	602	896	2470	1660	1140	972	368	263	306
11	506	605	549	656	830	2000	1480	1200	913	363	263	305
12	506	670	541	801	785	1860	1410	1230	818	359	262	299
13	496	692	532	856	762	1750	1390	1230	758	354	257	301
14	493	877	526	828	747	1560	1410	1200	763	349	254	303
15	491	1180	524	778	731	1450	1360	1180	719	340	253	305
16	491	1140	518	740	718	1540	1360	1160	675	335	253	319
17	523	954	515	711	707	1590	1380	1120	643	330	249	375
18	540	829	515	696	689	1520	1280	1060	620	325	249	456
19	541	758	513	709	670	1440	1190	1070	604	316	245	1010
20	541	712	505	734	676	1420	1130	1060	648	316	247	1320
21	540	680	503	785	937	1450	1080	1050	604	312	246	945
22	541	660	508	812	1650	1530	1050	1100	582	307	245	730
23	541	650	513	838	1610	1740	1020	1140	556	303	244	611
24	552	635	515	834	1600	2040	1010	1090	510	298	245	579
25	595	623	513	791	1410	1960	1010	1020	481	294	278	633
26	609	617	510	745	1220	1820	1040	1110	460	289	330	609
27	597	608	510	708	1130	1810	1010	1290	445	283	360	562
28	593	603	509	686	1240	1730	970	1200	430	279	339	652
29	588	597	506	669	---	1740	971	1080	422	275	309	2050
30	580	593	512	652	---	1630	1020	1030	415	271	297	1380
31	582	---	529	642	---	1470	---	1010	---	275	294	---
TOTAL	17140	20440	16398	23099	24941	49860	39741	37310	22384	10478	8384	16865
MEAN	553	681	529	745	891	1608	1325	1204	746	338	270	562
MAX	697	1180	593	1020	1650	2470	1970	1680	1090	408	360	2050
MIN	491	565	503	546	620	1120	970	1010	415	271	244	287
AC-FT	34000	40540	32530	45820	49470	98900	78830	74000	44400	20780	16630	33450

CAL YR 1976 TOTAL 797075 MEAN 2178 MAX 28300 MIN 491 AC-FT 1581000
WTR YR 1977 TOTAL 287040 MEAN 786 MAX 2470 MIN 244 AC-FT 569300

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 current year.
Prior to October 1964, published as "near Hoopa."

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1956 to current year.
SEDIMENT RECORDS: November 1956 to current year.

REVISED RECORDS.--WDR CA-70-P2: 1969.

INSTRUMENTATION.--Temperature recorder since March 1964.

REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading. Measurement of suspended sediment made at bridge on State Highway 96, 1.0 mi (1.6 km) downstream from gaging station. No appreciable inflow between sampling point and gaging station except during periods of heavy runoff.

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.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 20,400 mg/L Dec. 23, 1964; minimum daily mean, 1 mg/L on many days in 1957-64, 1968-70, 1976-77.
SEDIMENT DISCHARGE: Maximum daily, 8,900,000 tons (8,070,000 tonnes) Dec. 23, 1964; minimum daily, 0.76 ton (0.69 tonne) July 27, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 28.0°C July 16; minimum, 1.5°C Jan. 9.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 103 mg/L Sept. 29; minimum daily mean, 1 mg/l Dec. 7, July 27.
SEDIMENT DISCHARGE: Maximum daily, 579 tons (525 tonnes) Sept. 29; minimum daily, 0.76 ton (0.69 tonne) July 27.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)
OCT 04...	0900	--	620	195	7.8	16.0	5	9.9	--
NOV 08...	1045	--	565	195	7.9	10.5	0	11.4	--
DEC 06...	1045	--	531	207	7.8	6.0	0	12.8	--
JAN 04...	1220	--	978	202	8.1	5.5	1	14.0	--
FEB 01...	1040	--	643	215	7.8	7.0	0	14.0	--
MAR 07...	1100	--	1120	--	7.9	9.0	0	12.3	2
APR 04...	1015	--	1360	188	7.6	12.0	1	12.0	--
MAY 02...	0930	--	1490	169	7.8	14.0	2	11.0	--
JUN 13...	0930	--	763	165	8.2	19.0	1	10.0	--
JUL 11...	0930	363	--	204	8.0	23.0	0	9.2	--
AUG 08...	0845	--	258	195	8.0	23.0	--	--	--
SEP 19...	0940	--	1260	--	7.8	18.0	5	8.9	5

DATE	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT 04...	--	--	--	--	--	--	--	--	--
NOV 08...	--	--	--	--	--	--	--	--	--
DEC 06...	--	100	10	5.1	.2	110	0	90	6.8
JAN 04...	--	96	14	5.1	.2	100	0	82	6.8
FEB 01...	--	100	18	5.2	.2	100	0	82	7.7
MAR 07...	1.6	99	19	4.6	.2	98	0	80	--
APR 04...	--	88	11	4.1	.2	94	0	77	5.0
MAY 02...	--	77	7	4.4	.2	85	0	70	4.1
JUN 13...	--	--	--	--	--	--	--	--	--
JUL 11...	--	--	--	--	--	--	--	--	--
AUG 08...	--	--	--	--	--	--	--	--	--
SEP 19...	1.7	86	11	4.6	.2	92	0	75	5.6

11530000 TRINITY RIVER AT HOOPA, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SUS-PENDED SOLIDS (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT									
04...	--	--	--	--	--	--	--	--	--
NOV									
08...	--	--	--	--	--	--	--	--	--
DEC									
06...	--	.07	--	--	--	--	.01	.03	0
JAN									
04...	--	.03	--	--	--	--	.00	.00	0
FEB									
01...	--	.02	.01	.00	.01	.10	.00	.00	100
MAR									
07...	2	.03	.00	.00	.00	.03	.00	.00	0
APR									
04...	--	.05	.03	.10	.13	.01	.00	.00	0
MAY									
02...	--	.02	.00	.10	.10	.01	.00	.00	0
JUN									
13...	--	.00	.00	.00	.00	.02	.00	.00	--
JUL									
11...	--	.00	.01	.10	.11	.01	.00	.00	--
AUG									
08...	--	.01	.02	.00	.02	.00	.00	.00	--
SEP									
19...	27	.02	.02	.00	--	.08	.00	.00	100

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)
MAR							
07...	1100	0	0	0	0	0	0
SEP							
19...	0940	0	0	0	0	--	0

DATE	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
MAR							
07...	10	0	0	.0	0	1.0	.00
SEP							
19...	80	0	20	.1	0	2.6	.00

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
MAR										
09...	1810	9.0	2630	88	625	66	81	94	99	100

11530000 TRINITY RIVER AT HOOPA, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	20.5	--	19.0	14.5	--	14.0	5.5	--	5.5	5.0	--	4.5	--	--	--	8.5	--	7.0
2	20.0	--	18.0	14.5	--	14.0	5.5	--	5.5	4.5	--	4.0	--	--	--	8.0	--	6.5
3	18.5	--	17.0	14.5	--	14.5	5.5	--	5.5	4.5	--	3.5	--	4.0	--	8.0	--	7.0
4	18.0	--	16.5	14.5	--	13.5	5.5	--	5.5	4.5	--	4.0	--	--	--	8.5	--	6.5
5	17.5	--	16.0	14.0	--	12.5	6.0	--	5.5	5.0	--	4.0	--	6.0	--	8.5	--	7.0
6	18.5	--	16.5	13.5	--	12.5	6.0	--	5.0	4.5	--	3.5	--	--	--	8.5	--	8.5
7	19.0	--	17.5	12.5	--	11.5	6.0	--	5.5	3.5	--	2.5	--	--	--	8.5	--	8.0
8	18.5	--	17.5	12.0	--	11.0	6.0	--	5.5	3.0	--	2.0	--	--	--	9.5	--	8.0
9	18.5	--	17.5	12.5	--	11.0	6.0	--	6.0	2.5	--	1.5	--	--	--	9.0	--	8.0
10	18.0	--	16.0	12.0	--	11.0	6.0	--	6.0	4.0	--	2.5	--	--	--	8.5	--	6.5
11	19.5	--	17.0	12.0	--	11.5	6.0	--	5.5	4.5	--	4.0	--	--	--	8.5	--	6.5
12	18.0	--	16.0	12.5	--	12.0	5.5	--	5.5	5.5	--	4.5	--	--	--	8.0	--	7.0
13	17.0	--	15.5	12.0	--	11.5	5.5	--	5.0	5.5	--	5.0	--	--	--	8.5	--	6.5
14	16.5	--	15.0	12.0	--	11.5	5.0	--	4.5	6.0	--	5.0	--	--	--	8.0	--	6.0
15	16.0	--	14.5	12.0	--	11.0	5.0	--	4.5	5.5	--	5.0	--	--	--	7.5	--	7.0
16	16.0	--	14.5	12.5	--	11.5	5.0	--	4.5	5.5	--	5.0	--	--	--	9.0	--	6.5
17	15.5	--	14.0	12.5	--	12.0	5.0	--	4.0	5.0	--	4.5	--	11.0	--	9.5	--	6.5
18	15.0	--	13.5	13.0	--	12.5	4.5	--	3.5	5.0	--	4.5	11.0	--	9.0	9.5	--	7.0
19	15.5	--	14.0	12.5	--	11.5	4.0	--	3.0	5.0	--	4.5	11.0	--	9.0	8.5	--	8.5
20	15.0	--	13.5	12.0	--	11.0	3.5	--	2.5	5.0	--	4.5	10.5	--	9.5	11.0	--	8.5
21	14.5	--	14.0	11.5	--	10.5	3.0	--	2.5	6.0	--	5.0	10.0	--	9.5	12.0	--	9.5
22	14.5	--	13.5	11.0	--	10.5	3.5	--	3.0	6.0	--	5.5	9.5	--	8.5	11.5	--	9.5
23	13.5	--	13.5	11.0	--	10.0	4.0	--	3.5	6.5	--	5.5	9.0	--	8.0	11.5	--	9.5
24	14.0	--	13.0	10.5	--	9.5	4.0	--	3.5	6.5	--	5.5	8.5	--	7.5	9.5	--	8.5
25	15.0	--	13.0	10.0	--	10.0	4.5	--	4.0	6.0	--	5.0	8.0	--	6.5	8.5	--	7.5
26	14.0	--	13.5	10.0	--	8.5	4.5	--	4.5	5.5	--	4.5	8.5	--	7.0	10.5	--	8.0
27	13.5	--	12.5	8.5	--	7.0	5.5	--	4.5	5.5	--	4.0	9.5	--	8.0	10.5	--	9.0
28	13.5	--	12.0	7.0	--	6.0	5.0	--	4.0	5.5	--	4.0	9.5	--	8.0	9.5	--	7.5
29	13.5	--	12.5	6.0	--	5.5	5.0	--	4.5	5.0	--	4.0	--	--	--	9.5	--	8.0
30	14.5	--	13.0	5.5	--	5.5	6.0	--	5.0	5.0	--	4.0	--	--	--	10.0	--	8.5
31	14.5	--	13.0	--	--	--	5.5	--	4.5	5.0	--	5.0	--	--	--	10.0	--	6.5
MONTH	20.5	--	12.0	14.5	--	5.5	6.0	--	2.5	6.5	--	1.5	--	--	--	12.0	--	6.0

DAY	APR MAX	APR DAILY	APR MIN	MAY MAX	MAY DAILY	MAY MIN	JUN MAX	JUN DAILY	JUN MIN	JUL MAX	JUL DAILY	JUL MIN	AUG MAX	AUG DAILY	AUG MIN	SEP MAX	SEP DAILY	SEP MIN
1	10.0	--	8.5	--	--	--	20.0	--	17.0	--	--	--	--	--	--	24.0	--	19.5
2	11.0	--	8.0	--	--	--	19.5	--	15.5	--	--	--	--	--	--	24.0	--	20.0
3	12.0	--	8.5	--	--	--	18.5	--	16.0	--	--	--	--	27.0	--	24.0	--	19.5
4	13.0	--	9.5	--	--	--	21.0	--	16.0	--	23.0	--	--	24.5	--	25.0	--	21.0
5	14.0	--	10.0	--	12.5	--	22.5	--	18.0	--	--	--	--	--	--	25.0	--	22.0
6	14.0	--	10.0	13.5	--	11.5	24.0	--	19.0	--	--	--	--	--	--	24.5	--	20.5
7	14.0	--	10.5	14.0	--	11.5	23.0	--	19.5	25.5	--	22.5	--	26.0	--	24.5	--	21.0
8	13.0	--	11.0	14.5	--	11.0	23.0	--	18.5	25.0	--	21.0	--	--	--	24.5	--	20.5
9	12.0	--	9.5	14.0	--	12.5	22.0	--	19.5	25.0	--	21.0	--	--	--	24.0	--	20.5
10	12.0	--	9.0	13.5	--	13.0	21.0	--	19.0	25.5	--	19.5	--	--	--	24.0	--	20.5
11	13.5	--	9.5	14.0	--	12.0	22.0	--	19.0	26.5	--	21.5	--	26.0	--	24.0	--	20.5
12	13.5	--	9.5	15.5	--	12.0	23.0	--	20.5	26.5	--	21.5	--	--	--	24.0	--	20.0
13	13.5	--	11.0	15.5	--	11.0	24.0	--	22.0	26.0	--	21.0	--	--	--	22.0	--	19.5
14	13.5	--	10.0	15.0	--	13.0	23.5	--	21.5	27.0	--	22.0	--	--	--	21.0	--	19.0
15	14.0	--	10.5	15.0	--	12.5	23.5	--	21.0	27.5	--	22.5	--	22.0	--	19.5	--	17.5
16	14.0	--	11.0	15.0	--	12.5	23.0	--	20.0	28.0	--	22.5	--	--	--	19.0	--	17.5
17	13.5	--	11.0	16.0	--	12.5	24.5	--	20.0	27.5	--	22.0	--	--	--	19.0	--	17.5
18	13.5	--	10.0	14.5	--	12.5	25.0	--	21.5	27.0	--	22.0	--	25.0	--	19.5	--	18.0
19	13.5	--	10.0	17.0	--	13.0	24.5	--	21.0	27.0	--	21.5	--	--	--	19.0	--	18.0
20	13.0	--	11.0	18.0	--	14.0	25.5	--	21.5	27.0	--	22.5	--	24.0	--	20.0	--	17.5
21	14.0	--	11.0	18.0	--	15.0	26.0	--	22.5	26.5	--	21.5	--	24.0	--	19.5	--	16.5
22	13.5	--	11.5	17.0	--	15.0	26.0	--	22.0	26.5	--	22.0	--	--	--	19.5	--	16.0
23	13.5	--	11.5	15.5	--	13.5	27.0	--	23.0	27.0	--	22.5	--	--	--	18.0	--	16.5
24	--	--	--	18.0	--	14.0	28.0	--	24.0	26.0	--	22.5	--	23.0	--	19.5	--	16.0
25	--	--	--	16.0	--	14.0	27.0	--	24.5	25.5	--	21.5	--	--	--	19.5	--	17.0
26	--	--	--	15.5	--	14.0	--	--	--	--	--	--	--	--	--	20.0	--	17.5
27	--	--	--	16.5	--	12.5	--	25.0	--	--	24.0	--	--	25.0	--	19.0	--	17.5
28	--	--	--	17.5	--	13.0	--	--	--	--	--	--	--	--	--	18.5	--	17.0
29	--	--	--	18.0	--	13.5	--	--	--	--	--	--	--	--	--	18.0	--	16.5
30	--	--	--	18.5	--	14.5	--	26.0	--	--	--	--	--	25.0	--	18.0	--	15.5
31	--	--	--	20.0	--	15.5	--	--	--	--	25.0	--	--	21.0	--	--	--	--
MONTH	--	--	--	20.0	--	11.0	28.0	--	15.5	--	--	--	--	--	--	25.0	--	15.5

11530000 TRINITY RIVER AT HOOPA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER			NOVEMBER			DECEMBER		
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	551	4	6.0	581	11	17	593	5	8.0
2	576	4	6.2	582	11	17	591	4	6.4
3	697	4	7.5	585	12	19	561	6	9.1
4	620	6	10	588	10	16	538	8	12
5	588	9	14	583	9	14	535	11	16
6	560	6	9.1	575	7	11	531	5	7.2
7	541	4	5.8	568	6	9.2	531	1	1.4
8	531	5	7.2	565	4	6.1	534	3	4.3
9	520	6	8.4	565	3	4.6	558	5	7.5
10	510	5	6.9	565	3	4.6	560	5	7.6
11	506	5	6.8	605	3	4.9	549	6	8.9
12	506	4	5.5	670	4	7.2	541	5	7.3
13	496	4	5.4	692	10	19	532	5	7.2
14	493	4	5.3	877	14	33	526	5	7.1
15	491	4	5.3	1180	19	61	524	6	8.5
16	491	4	5.3	1140	20	62	518	7	9.8
17	523	4	5.6	954	17	44	515	5	7.0
18	540	4	5.8	829	15	34	515	4	5.6
19	541	4	5.8	758	13	27	513	4	5.5
20	541	4	5.8	712	10	19	505	7	9.5
21	540	3	4.4	680	8	15	503	10	14
22	541	3	4.4	660	5	8.9	508	7	9.6
23	541	5	7.3	650	4	7.0	513	4	5.5
24	552	7	10	635	4	6.9	515	4	5.6
25	595	5	8.0	623	4	6.7	513	3	4.2
26	609	4	6.6	617	4	6.7	510	3	4.1
27	597	4	6.4	608	5	8.2	510	3	4.1
28	593	5	8.0	603	6	9.8	509	3	4.1
29	588	6	9.5	597	6	9.7	506	2	2.7
30	580	7	11	593	7	11	512	2	2.8
31	582	8	13	---	---	---	529	3	4.3
TOTAL	17140	---	226.3	20440	---	519.5	16398	---	216.9

	JANUARY			FEBRUARY			MARCH		
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	546	4	5.9	644	10	17	1490	21	87
2	792	16	35	653	7	12	1370	10	37
3	1020	32	91	645	4	7.0	1320	7	25
4	989	22	59	626	9	15	1260	6	20
5	870	19	45	620	8	13	1170	5	16
6	750	33	67	620	8	13	1120	5	15
7	666	32	58	631	8	14	1120	4	12
8	603	21	34	689	9	17	1320	8	29
9	590	10	16	805	9	20	2170	50	320
10	602	3	4.9	896	9	22	2470	46	307
11	656	7	12	830	9	20	2000	20	108
12	801	6	13	785	10	21	1860	13	65
13	856	5	12	762	12	25	1750	10	47
14	828	5	11	747	13	26	1560	8	34
15	778	5	11	731	14	28	1450	6	23
16	740	4	8.0	718	12	23	1540	6	25
17	711	4	7.7	707	10	19	1590	6	26
18	696	5	9.4	689	8	15	1520	7	29
19	709	7	13	670	7	13	1440	7	27
20	734	6	12	676	7	13	1420	7	27
21	785	6	13	937	19	52	1450	6	23
22	812	6	13	1650	52	234	1530	6	25
23	838	6	14	1610	26	113	1740	8	38
24	834	6	14	1600	25	108	2040	8	44
25	791	7	15	1410	16	61	1960	8	42
26	745	7	14	1220	9	30	1820	8	39
27	708	6	11	1130	7	21	1810	8	39
28	686	6	11	1240	13	45	1730	7	33
29	669	6	11	---	---	---	1740	7	33
30	652	6	11	---	---	---	1630	23	101
31	642	8	14	---	---	---	1470	32	127
TOTAL	23099	---	665.9	24941	---	1017.0	49860	---	1823

11530000 TRINITY RIVER AT HOOPA, CA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	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	1420	13	50	1200	5	16	1060	10	29
2	1370	11	41	1540	7	29	1090	8	24
3	1340	16	58	1680	9	41	1020	7	19
4	1370	22	81	1660	21	94	972	7	18
5	1570	15	64	1440	29	113	997	6	16
6	1750	10	47	1340	13	47	1030	6	17
7	1810	8	39	1300	7	25	1090	6	18
8	1970	8	43	1220	7	23	1090	6	18
9	1910	9	46	1160	7	22	997	6	16
10	1660	10	45	1140	6	18	972	6	16
11	1480	9	36	1200	6	19	913	6	15
12	1410	8	30	1230	6	20	818	6	13
13	1390	8	30	1230	6	20	758	6	12
14	1410	8	30	1200	7	23	763	6	12
15	1360	7	26	1180	8	25	719	6	12
16	1360	7	26	1160	7	22	675	5	9.1
17	1380	7	26	1120	5	15	643	5	8.7
18	1280	6	21	1060	4	11	620	5	8.4
19	1190	6	19	1070	4	12	604	5	8.2
20	1130	6	18	1060	4	11	648	5	8.7
21	1080	5	15	1050	4	11	604	5	8.2
22	1050	4	11	1100	4	12	582	5	7.9
23	1020	4	11	1140	3	9.2	556	5	7.5
24	1010	4	11	1090	3	8.8	510	6	8.3
25	1010	4	11	1020	3	8.3	481	5	6.5
26	1040	5	14	1110	3	9.0	460	4	5.0
27	1010	7	19	1290	4	14	445	4	4.8
28	970	10	26	1200	5	16	430	4	4.6
29	971	8	21	1080	5	15	422	3	3.4
30	1020	6	17	1030	5	14	415	3	3.4
31	---	---	---	1010	5	14	---	---	---
TOTAL	39741	---	932	37310	---	737.3	22384	---	357.7

	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	408	4	4.4	272	4	2.9	292	7	5.5
2	405	4	4.4	271	5	3.7	289	8	6.2
3	402	5	5.4	264	5	3.6	287	5	3.9
4	398	5	5.4	259	5	3.5	330	4	3.6
5	392	5	5.3	274	5	3.7	335	3	2.7
6	390	4	4.2	271	5	3.7	334	4	3.6
7	387	4	4.2	266	5	3.6	325	6	5.3
8	382	4	4.1	261	5	3.5	313	7	5.9
9	373	4	4.0	264	6	4.3	310	7	5.9
10	368	5	5.0	263	7	5.0	306	8	6.6
11	363	6	5.9	263	8	5.7	305	8	6.6
12	359	6	5.8	262	7	5.0	299	7	5.7
13	354	6	5.7	257	6	4.2	301	5	4.1
14	349	6	5.7	254	5	3.4	303	3	2.5
15	340	5	4.6	253	5	3.4	305	3	2.5
16	335	4	3.6	253	5	3.4	319	4	3.4
17	330	3	2.7	249	6	4.0	375	4	4.1
18	325	2	1.8	249	8	5.4	456	5	6.2
19	316	3	2.6	245	6	4.0	1010	53	164
20	316	5	4.3	247	4	2.7	1320	77	286
21	312	7	5.9	246	2	1.3	945	32	82
22	307	6	5.0	245	4	2.6	730	17	34
23	303	5	4.1	244	5	3.3	611	15	25
24	298	5	4.0	245	6	4.0	579	13	20
25	294	3	2.4	278	6	4.5	633	12	21
26	289	2	1.6	330	6	5.3	609	12	20
27	283	1	.76	360	6	5.8	562	14	21
28	279	2	1.5	339	5	4.6	652	28	54
29	275	3	2.2	309	4	3.3	2050	103	579
30	271	3	2.2	297	4	3.2	1380	47	175
31	275	4	3.0	294	5	4.0	---	---	---
TOTAL	10478	---	121.76	8384	---	120.6	16865	---	1565.3
YEAR	287040		8303.26						

11530300 BLUE CREEK NEAR KLAMATH, CA

LOCATION.--Lat 41°27'00", long 123°53'40", in NE¼NW¼ sec.12, T.12 N., R.2 E., Humboldt County, on left bank 600 ft (183 m) downstream from West Fork, 3.0 mi (4.8 km) upstream from mouth, and 9.2 mi (14.8 km) southeast of Klamath.

DRAINAGE AREA.--120 mi^2 (311 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 140.65 ft (42.870 m) above mean sea level.

REMARKS.--Records poor including those for periods of no gage-height record, Mar. 9-15, June 29 to Aug. 4. No regulation or diversion above station.

AVERAGE DISCHARGE.--12 years, 736 ft^3/s (20.84 m^3/s), 533,200 acre-ft/yr (657 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,000 ft^3/s (935 m^3/s) Mar. 2, 1972, gage height, 18,10 ft (5.517 m), from rating curve extended above 1,000 ft^3/s (28.3 m^3/s) on basis of step-backwater computation at 21.55 ft (6.568 m); minimum daily, 43 ft^3/s (1.22 m^3/s) Nov. 1, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 21.55 ft (6.568 m) from floodmarks, discharge, 48,000 ft^3/s (1,360 m^3/s), by step-backwater computation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,450 ft^3/s (41.1 m^3/s) Mar. 9, gage height, 9.5 ft (2.90 m) from floodmark, no peak above base of 7,000 ft^3/s (198 m^3/s); minimum daily, 51 ft^3/s (1.44 m^3/s) Sept. 13-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	86	60	72	73	520	313	212	228	105	64	60
2	57	74	60	203	73	403	316	241	212	101	64	58
3	56	69	59	293	71	416	313	461	203	99	63	58
4	56	66	58	179	70	358	350	434	197	98	62	57
5	55	63	56	150	71	316	429	403	191	96	61	57
6	55	62	56	130	80	298	429	382	182	95	61	57
7	55	62	57	108	78	399	434	346	176	94	61	54
8	55	59	66	96	82	1060	476	316	170	90	61	54
9	55	59	74	90	92	1200	399	298	164	89	61	54
10	55	70	70	105	84	900	346	298	158	87	61	52
11	55	70	64	134	78	750	320	302	156	85	60	52
12	54	69	61	252	75	920	309	287	153	84	58	52
13	53	74	59	181	75	680	313	269	147	82	58	51
14	53	186	58	160	73	560	298	258	142	80	58	51
15	53	233	56	145	71	490	280	245	136	78	58	51
16	53	160	57	130	68	436	284	245	134	77	58	54
17	53	120	54	122	66	395	265	241	131	76	57	78
18	53	102	54	118	65	366	248	231	131	76	57	80
19	53	94	53	111	63	350	228	228	129	76	56	218
20	53	86	52	110	80	339	215	219	126	75	56	164
21	53	80	52	103	197	339	206	212	124	74	56	105
22	53	76	52	98	258	362	200	209	119	74	56	77
23	53	72	52	94	262	438	194	219	116	73	54	73
24	62	70	53	90	295	434	191	206	112	73	63	231
25	104	68	55	86	251	399	209	203	107	73	86	126
26	80	65	60	84	222	378	215	434	105	72	101	90
27	68	63	68	83	245	395	188	386	103	70	77	101
28	64	62	64	80	592	382	185	316	101	70	66	1030
29	62	61	64	78	---	358	176	280	100	69	65	711
30	62	60	68	76	---	335	176	258	102	68	63	228
31	64	---	66	74	---	316	---	238	---	66	61	---
TOTAL	1815	2541	1838	3835	3810	15292	8505	8877	4355	2525	1943	4184
MEAN	58.5	84.7	59.3	124	136	493	284	286	145	81.5	62.7	139
MAX	104	233	74	293	592	1200	476	461	228	105	101	1030
MIN	53	59	52	72	63	298	176	203	100	66	54	51
AC-FT	3600	5040	3650	7610	7560	30330	16870	17610	8640	5010	3850	8300

CAL YR 1976 TOTAL 148167 MEAN 405 MAX 5170 MIN 52 AC-FT 293900
WTR YR 1977 TOTAL 59520 MEAN 163 MAX 1200 MIN 51 AC-FT 118100

11530300 BLUE CREEK NEAR KLAMATH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 27.0°C July 23, 1970; minimum recorded, 3.5°C Dec. 11, 12, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum recorded, 5.5°C Feb. 2-4.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 18...	1330	57	167	8.4	17.5	9.5	75	5	15

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 18...	9.0	2.4	7	.1	.4	85	0	70	8.0

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 18...	2.1	.0	11	90	.12	13.9	.00	20	10

11530300 BLUE CREEK NEAR KLAMATH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	21.0	--	19.5	13.0	--	12.5	--	--	--	--	--	--	--	7.5	--	8.5	--	8.0
2	20.5	--	19.0	14.0	--	12.0	--	--	--	--	--	--	6.0	--	5.5	8.5	--	8.0
3	21.0	--	19.5	14.0	--	11.5	--	--	--	--	--	--	6.5	--	5.5	8.5	--	8.0
4	21.5	--	19.5	13.5	--	11.5	--	--	--	--	--	--	6.5	--	5.5	8.5	--	8.0
5	--	--	--	13.0	--	11.0	--	--	--	--	--	--	6.5	--	6.0	8.5	--	8.0
6	--	--	--	12.0	--	11.0	--	--	--	--	--	--	7.0	--	6.5	8.5	--	8.5
7	--	--	--	12.5	--	10.5	--	--	--	--	--	--	7.0	--	6.5	8.5	--	8.5
8	17.5	--	15.0	13.0	--	10.0	--	--	--	--	--	--	7.0	--	6.5	8.5	--	8.5
9	17.0	--	15.0	12.0	--	10.0	--	--	--	--	--	--	7.5	--	6.5	9.0	--	8.0
10	17.0	--	15.0	12.0	--	11.5	--	--	--	--	--	--	7.5	--	6.5	9.0	--	8.5
11	17.5	--	14.5	13.0	--	11.5	--	--	--	--	--	--	7.5	--	6.5	8.5	--	8.0
12	17.0	--	10.5	12.0	--	10.0	--	--	--	--	--	--	8.5	--	6.5	8.0	--	8.0
13	16.5	--	14.5	12.0	--	10.5	--	--	--	--	7.0	--	8.5	--	7.5	8.5	--	8.0
14	15.0	--	12.0	12.0	--	10.5	--	--	--	--	--	--	8.5	--	7.5	8.5	--	8.0
15	14.0	--	11.5	11.5	--	11.0	--	--	--	--	--	--	8.5	--	7.5	8.5	--	8.0
16	14.0	--	10.5	--	--	--	--	--	--	--	--	--	8.5	--	7.5	8.5	--	8.0
17	13.5	--	10.5	--	--	--	--	--	--	--	--	--	8.5	--	7.5	9.0	--	8.0
18	13.5	--	11.0	--	--	--	--	--	--	--	--	--	9.5	--	7.5	8.5	--	8.0
19	13.0	--	10.5	--	--	--	--	--	--	--	--	--	9.5	--	8.5	9.0	--	8.0
20	13.0	--	11.0	--	--	--	--	--	--	--	--	--	9.5	--	8.5	9.0	--	8.0
21	13.0	--	11.0	--	--	--	--	--	--	--	--	--	9.0	--	8.5	9.0	--	8.0
22	13.0	--	10.0	--	--	--	--	--	--	--	--	--	9.0	--	8.5	9.0	--	8.0
23	12.5	--	10.0	--	--	--	--	--	--	--	--	--	8.5	--	8.5	8.5	--	8.0
24	11.0	--	10.5	--	--	--	--	--	--	--	--	--	8.5	--	8.5	8.5	--	8.0
25	13.0	--	11.0	--	--	--	--	--	--	--	--	--	8.5	--	8.0	8.5	--	8.0
26	12.5	--	11.0	--	--	--	--	--	--	--	--	--	8.5	--	8.5	8.5	--	8.0
27	12.5	--	11.0	--	--	--	--	--	--	--	7.0	--	8.5	--	8.0	8.5	--	8.5
28	12.0	--	9.5	--	--	--	--	--	--	--	--	--	8.5	--	8.0	8.5	--	8.5
29	12.0	--	9.0	--	--	--	--	--	--	--	--	--	--	--	--	8.5	--	8.0
30	13.5	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--	9.0	--	8.5
31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	8.5
MONTH	21.5	--	9.0	--	--	--	--	--	--	--	--	--	9.5	--	5.5	9.5	--	8.0

DAY	APR MAX	APR DAILY	APR MIN	MAY MAX	MAY DAILY	MAY MIN	JUN MAX	JUN DAILY	JUN MIN	JUL MAX	JUL DAILY	JUL MIN	AUG MAX	AUG DAILY	AUG MIN	SEP MAX	SEP DAILY	SEP MIN
1	9.5	--	8.5	12.0	--	12.0	--	--	--	--	--	--	--	--	--	18.0	--	16.0
2	9.5	--	8.5	12.5	--	12.0	--	--	--	--	--	--	--	--	--	17.5	--	16.0
3	11.5	--	9.0	12.0	--	11.0	16.5	--	13.5	--	--	--	--	--	--	18.0	--	16.0
4	12.0	--	10.5	11.0	--	10.5	16.5	--	13.5	--	--	--	19.0	--	16.0	19.0	--	17.5
5	11.5	--	10.5	--	--	--	--	--	--	--	--	--	17.0	--	16.0	18.5	--	18.0
6	11.0	--	10.5	--	--	--	--	--	--	--	--	--	--	--	--	18.5	--	17.0
7	11.0	--	10.5	--	--	--	--	--	--	--	--	--	--	--	--	18.0	--	17.0
8	11.5	--	10.5	--	--	--	17.5	--	16.0	--	--	--	--	--	--	18.5	--	17.0
9	10.5	--	9.5	--	--	--	16.5	--	16.0	--	--	--	--	--	--	18.0	--	16.5
10	11.5	--	10.0	--	--	--	16.0	--	16.0	--	--	--	--	--	--	18.0	--	17.0
11	11.5	--	10.5	--	--	--	16.5	--	15.5	--	--	--	--	--	--	17.5	--	16.5
12	11.5	--	10.5	--	--	--	17.5	--	16.5	--	--	--	--	--	--	17.5	--	16.0
13	11.0	--	10.5	--	--	--	--	--	--	--	--	--	--	--	--	17.0	--	16.5
14	11.0	--	10.5	--	--	--	--	--	--	--	--	--	--	--	--	16.5	--	16.5
15	11.0	--	10.5	--	--	--	--	--	--	--	--	--	--	--	--	16.5	--	15.5
16	10.5	--	10.0	--	--	--	--	--	--	--	--	--	--	--	--	16.0	--	15.5
17	10.5	--	9.5	--	--	--	--	--	--	--	--	--	--	--	--	16.0	--	16.0
18	12.5	--	10.0	--	--	--	--	--	--	--	--	--	--	17.5	--	16.5	--	16.0
19	11.0	--	11.0	--	--	--	--	--	--	--	--	--	18.0	--	17.0	16.0	--	15.0
20	12.0	--	11.0	--	--	--	--	--	--	--	--	--	17.0	--	17.0	15.5	--	14.5
21	11.5	--	11.0	--	--	--	--	--	--	--	--	--	17.0	--	16.5	15.5	--	14.5
22	13.0	--	11.0	--	--	--	--	--	--	--	--	--	18.5	--	16.5	15.5	--	14.5
23	11.5	--	11.0	--	--	--	--	--	--	--	--	--	18.5	--	16.5	15.0	--	14.5
24	11.0	--	11.0	--	--	--	--	--	--	--	--	--	17.5	--	17.0	14.5	--	14.0
25	12.5	--	11.0	--	13.0	--	--	--	--	--	--	--	17.5	--	16.5	14.5	--	13.5
26	12.5	--	11.0	12.0	--	10.5	--	--	--	--	--	--	17.5	--	16.0	15.0	--	14.5
27	12.5	--	11.5	12.5	--	10.5	--	--	--	--	--	--	17.5	--	16.5	14.5	--	14.5
28	12.0	--	11.5	12.5	--	10.0	--	21.0	--	--	--	--	17.5	--	16.5	15.0	--	13.5
29	12.5	--	11.5	--	--	--	--	--	--	--	--	--	18.5	--	16.5	13.5	--	12.5
30	12.5	--	12.0	--	--	--	--	--	--	--	--	--	18.0	--	17.0	13.0	--	12.5
31	--	--	--	--	--	--	--	--	--	--	--	--	18.0	--	16.5	--	--	--
MONTH	13.0	--	8.5	--	--	--	--	--	--	--	--	--	--	--	--	19.0	--	12.5

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, on right bank 0.2 mi (0.3 km) upstream from Turwar Creek, and 2.2 mi (3.5 km) southeast of Klamath. Prior to Oct. 3, 1975, at site 2.6 mi (4.2 km) upstream.

DRAINAGE AREA.--12,100 mi^2 (31,340 km^2), approximately (not including Lost River or Lower Klamath Lake basins).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to December 1926 (published as "near Requa"), October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1285: 1951(P). WSP 1445: 1918-20.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. 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.--43 years, 17,370 ft^3/s (491.9 m^3/s), 12,580,000 acre-ft/yr (15.5 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 557,000 ft^3/s (15,800 m^3/s) Dec. 23, 1964, gage height, 55.3 ft (16.86 m) former datum, from floodmarks, from rating curve extended above 230,000 ft^3/s (6,510 m^3/s) on basis of flood-routing study; minimum daily, 1,310 ft^3/s (37.1 m^3/s) Sept. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,200 ft^3/s (430 m^3/s) Sept. 29, gage height, 10.50 ft (3.200 m), no peak above base of 90,000 ft^3/s (2,550 m^3/s); minimum daily, 1,310 ft^3/s (37.1 m^3/s) Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3090	4040	4970	3540	3580	8120	5270	5090	5250	2130	1460	1450
2	3090	4060	4950	4240	3570	7200	5170	5890	5350	2170	1400	1470
3	3300	4140	4940	5640	3560	6390	5060	6950	4890	2170	1470	1390
4	3300	4490	4760	5180	3420	5880	5190	7920	4420	2100	1460	1310
5	3230	4720	4490	4460	3390	5240	5890	7080	4380	2070	1450	1390
6	3070	4740	4340	4160	3300	5030	6720	6530	4560	2020	1470	1420
7	3170	4690	4340	3980	3380	5100	6990	6090	4720	2020	1440	1440
8	3210	4660	4260	3860	3430	7880	7700	5690	4740	1980	1430	1400
9	3300	4720	4120	3770	3610	12400	7930	5480	4530	1960	1450	1420
10	3240	4630	4110	3780	3780	12800	6780	5490	4470	1910	1460	1420
11	3130	4600	3960	4090	3660	9460	5880	5600	4430	1910	1430	1410
12	3130	4880	3960	5530	3590	8610	5590	5510	4080	1870	1400	1410
13	3150	4950	3950	6060	3520	8540	5590	5460	3790	1810	1400	1410
14	3250	5810	3960	5330	3500	7560	5810	5340	3800	1800	1410	1410
15	3260	6880	3800	4810	3440	6800	5610	5350	3750	1780	1400	1430
16	3260	6460	3680	4310	3470	6340	5430	5260	3650	1760	1410	1500
17	3240	5850	3720	4140	3440	6070	5680	5120	3520	1740	1380	1720
18	3330	5440	3730	4000	3380	5840	5430	4990	3360	1660	1370	1860
19	3290	5350	3660	3900	3320	5480	5020	4850	3200	1640	1360	3260
20	3360	5190	3670	3880	3410	5270	4900	4800	3080	1640	1390	4170
21	3340	5020	3700	3890	4400	5180	4710	4880	2950	1630	1390	3650
22	3330	5020	3670	3970	6700	5330	4460	4860	2870	1630	1360	3040
23	3390	5080	3540	4020	6790	6200	4550	4990	2780	1610	1350	2800
24	3530	4980	3540	4030	7080	7620	4480	5240	2650	1620	1340	2930
25	3640	4950	3410	3950	6570	7440	4660	5120	2540	1600	1480	3030
26	3690	5010	3500	3840	5650	6690	4880	5610	2450	1550	1660	2910
27	3570	5100	3530	3740	5260	6480	4650	7160	2330	1560	1680	2870
28	3550	5010	3570	3690	6260	6660	4470	6410	2100	1540	1600	7060
29	3520	4940	3470	3660	---	6420	4410	5660	2100	1490	1480	14200
30	3430	4960	3440	3630	---	5970	4530	5280	2150	1440	1440	9560
31	3960	---	3470	3480	---	5570	---	5070	---	1440	1450	---
TOTAL	103350	150370	122210	130560	118460	215570	163440	174770	108890	55250	44670	85740
MEAN	3334	5012	3942	4212	4231	6954	5448	5638	3630	1782	1441	2858
MAX	3960	6880	4970	6060	7080	12800	7930	7920	5350	2170	1680	14200
MIN	3070	4040	3410	3480	3300	5030	4410	4800	2100	1440	1340	1310
AC-FT	205000	298300	242400	259000	235000	427600	324200	346700	216000	109600	88600	170100

CAL YR 1976 TOTAL 3437590 MEAN 9392 MAX 71300 MIN 2350 AC-FT 6818000
WTR YR 1977 TOTAL 1473280 MEAN 4036 MAX 14200 MIN 1310 AC-FT 2922000

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
CHEMICAL ANALYSES: Water years 1951 to current year.
BIOLOGICAL DATA: Water years 1975 to current year.
SPECIFIC CONDUCTANCE: Water years 1975 to current year.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1955-56, 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to current year.
WATER TEMPERATURES: November 1965 to current year.

INSTRUMENTATION.--Temperature recorder since November 1965.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 26.0°C Aug. 29, 30, Sept. 4, 1977; minimum recorded, 2.5°C Feb. 2, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 26.0°C Aug. 29, 30, Sept. 4; minimum, 3.5°C Jan. 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	FECAL COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	FECAL STREP-TOCOCCI KF AGAR (COL. PER 100 ML)	HARD-NESS (CA,MG) (MG/L)
OCT												
06...	1325	3070	2950	205	8.5	--	3	B11	--	B17	--	92
28...	1400	3550	3480	218	--	13.0	--	B13	--	23	--	--
NOV												
22...	1420	5020	4940	206	8.3	12.0	--	B17	--	B4	--	--
JAN												
10...	1300	3780	3830	190	7.2	--	2	--	B17	B15	--	80
FEB												
23...	1315	6790	6660	183	7.6	8.5	--	--	81	--	--	--
MAR												
30...	1145	5970	6020	162	--	13.0	5	--	B11	--	B3	72
APR												
22...	1430	4460	4470	167	8.5	15.0	--	--	<1	--	B7	--
MAY												
25...	1235	5120	5090	176	8.2	15.0	--	--	B2	--	B1	--
JUL												
14...	1430	1800	1800	200	7.8	22.0	3	--	B1	--	34	90
AUG												
30...	1730	1440	1400	205	8.7	25.0	--	--	--	--	51	--
SEP												
15...	1430	1430	1480	209	8.3	18.0	1	--	B3	--	35	86

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT											
06...	0	21	9.6	16	27	.7	2.9	119	0	98	22
28...	--	--	--	--	--	--	--	--	--	--	--
NOV											
22...	--	--	--	--	--	--	--	--	--	--	--
JAN											
10...	0	18	8.5	11	23	.5	1.5	97	0	80	14
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
30...	5	17	7.2	5.6	14	.3	1.2	82	0	67	10
APR											
22...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
14...	0	21	9.1	12	22	.6	1.9	110	0	90	21
AUG											
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
15...	0	19	9.3	11	21	.5	1.8	110	0	90	8.8

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

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT											
06...	6.4	.1	19	156	156	.21	1290	.26	.64	.90	.13
28...	--	--	--	--	--	--	--	--	--	--	--
NOV											
22...	--	--	--	--	--	--	--	--	--	--	--
JAN											
10...	5.9	.1	23	124	130	.17	1270	.56	.52	1.1	.05
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
30...	4.6	.1	14	112	100	.15	1810	.08	.19	.27	.03
APR											
22...	--	--	--	--	--	--	--	.02	.08	.10	.04
MAY											
25...	--	--	--	--	--	--	--	.00	.00	.00	.04
JUL											
14...	5.8	.1	13	137	138	.19	666	.05	.20	.25	.06
AUG											
30...	--	--	--	--	--	--	--	.01	.18	.19	.08
SEP											
15...	6.0	.1	15	119	125	.16	459	.00	.26	.26	.08

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
OCT												
06...	1325	4	1	3	<10	<9	1	0	0	0	<50	<46
JAN												
10...	1300	3	--	4	<10	--	--	10	0	10	<50	--
MAR												
30...	1145	0	--	--	<10	--	3	10	--	0	<50	--
JUL												
14...	1430	2	--	2	<10	<8	2	0	--	0	<50	<50
SEP												
15...	1430	2	0	4	<10	<9	1	0	0	0	<50	<50

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)
OCT											
06...	4	10	7	3	740	30	<100	<92	8	20	10
JAN											
10...	--	<10	--	--	400	50	100	--	--	10	10
MAR											
30...	0	<10	--	14	190	80	100	--	23	10	--
JUL											
14...	0	40	35	5	740	20	<100	<82	18	20	--
SEP											
15...	0	<10	<7	3	40	20	<100	<95	5	20	10

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
06...	10	--	--	.3	0	0	0	30	10	20	3.7
JAN											
10...	0	.9	--	.6	0	0	0	40	0	40	2.9
MAR											
30...	10	.1	--	.0	1	1	0	140	--	140	3.6
JUL											
14...	4	.1	.1	.0	0	0	0	100	80	20	3.0
SEP											
15...	10	.1	.1	.0	0	0	0	20	0	20	6.7

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ATRAZINE (UG/L)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)
OCT											
06...	1325	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAR											
30...	1145	ND	--	--	ND	--	ND	--	ND	--	ND
AUG											
30...	1730	ND	--	ND	ND	--	ND	--	ND	--	ND

DATE	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	TOTAL DIELDRIN (UG/L)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)
OCT											
06...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAR											
30...	--	--	--	ND	--	ND	--	--	--	ND	--
AUG											
30...	--	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	TOTAL HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	MALATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHOXYCHLOR (UG/L)	METHOXYCHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL TRITHION (UG/L)
OCT											
06...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAR											
30...	ND	--	ND	--	--	--	ND	--	--	--	--
AUG											
30...	ND	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL PARATHION (UG/L)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	SIMAZINE TOTAL COULSON COND. (UG/L)
OCT											
06...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAR											
30...	--	--	--	ND	--	--	--	--	--	--	--
AUG											
30...	--	ND	--	ND	--	ND	--	ND	ND	ND	ND

ND Material specifically analyzed for but not detected.

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 6,76		JAN 10,77		MAY 25,77		JUL 14,77		AUG 30,77		SEP 15,77	
TIME	1325		1310		1235		1430		1730		1430	
TOTAL CELLS/ML	5100		290		270		1100		3300		13000	
DIVERSITY: DIVISION	0.1		0.8		1.2		1.6		1.4		0.1	
.CLASS	0.9		0.8		1.2		1.6		1.4		0.1	
..ORDER	1.0		0.8		1.3		2.1		1.6		0.3	
...FAMILY	1.6		0.8		3.4		2.9		1.9		0.4	
....GENUS	1.6		1.1		3.6		3.2		2.1		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
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	*	0	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE												
....COELASTRUM	--	-	--	-	--	-	46	4	--	-	--	-
...HYDRODICTYACEAE												
....PEDIASTRUM	*	0	--	-	27	10	--	-	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	13	5	11	1	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	46	4	--	-	*	0
....OOCYSTIS	--	-	--	-	--	-	23	2	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	6	1	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	11	1	*	0	--	-
...SCENEDESMACEAE												
....SCENEDESMUS	67	1	--	-	23	9	360#	33	46	1	--	-
..TETRASPORALES												
...PALMELLACEAE												
....GLOEOCYSTIS	--	-	--	-	--	-	46	4	--	-	--	-
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	1700#	52	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	5	2	--	-	6	1	--	-	--	-
..ZYGNEMATALES												
...DESMIDIACEAE												
....COSMARIUM	--	-	--	-	--	-	--	-	34	1	--	-
....STAURASTRUM	--	-	--	-	3	1	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	37	1	--	-	3	1	74	7	69	2	--	-
....MELOSIRA	*	0	--	-	--	-	34	3	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	--	-	13	5	--	-	--	-	--	-
....COCCONEIS	74	1	*	0	17	6	11	1	46	1	*	0
....RHOICOSPHENIA	*	0	--	-	7	2	--	-	--	-	--	-
...CYMBELLACEAE												
....AMPHORA	--	-	--	-	--	-	--	-	*	0	--	-
....CYMBELLA	30	1	--	-	--	-	--	-	*	0	--	-
....EPITHEMIA	200	4	*	0	10	4	6	1	23	1	70	1
...DIATOMACEAE												
....DIATOMA	130	3	*	0	57#	21	17	2	23	1	*	0
...FRAGILARIACEAE												
....FRAGILARIA	*	0	220#	76	--	-	74	7	23	1	--	-
....SYNEDRA	160	3	5	2	23	9	--	-	*	0	*	0
...GOMPHONEMATACEAE												
....GOMPHONEMA	37	1	*	0	7	2	11	1	*	0	--	-
...NAVICULACEAE												
....NAVICULA	120	2	*	0	23	9	6	1	34	1	--	-
....PINNULARIA	*	0	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE												
....NITZSCHIA	480	9	*	0	23	9	34	3	150	5	70	1
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....UROGLENA	3700#	73	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROCCOCCALES												
...CHROCCOCCACEAE												
....ANACYSTIS	--	-	--	-	--	-	260#	24	--	-	11000#	88
..HORMOGONALES												
...OSCILLATORIACEAE												
....LYNGBYA	--	-	14	5	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	43#	15	20	7	--	-	80	2	370	3
....PHORMIMIDIUM	--	-	--	-	--	-	--	-	970#	30	--	-
..CHROCCOCCALES												
...CHROCCOCCACEAE												
....GOMPHOSPHAERIA	--	-	--	-	--	-	--	-	--	-	940	7
EUGLENOPHYTA (EUGLENOIDS)												
.CRYPTOPHYCEAE												
..CRYPTOMONIDALES												
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	--	-	--	-	--	-	6	1	--	-	--	-
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	6	1	--	-	--	-

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

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Oct. 6	-	19.2	11.7	7.79	1.08	968	Polyethylene strip

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	161	---			---	---	128	---			216
2	---	---	---			---	---	---	---			205
3	---	---	---			---	---	---	132			211
4	162	---	137			---	---	---	---			203
5	---	---	---			---	152	---	---			215
6	---	---	---			---	146	122	---			216
7	---	---	---			---	---	144	---			191
8	167	---	---			137	150	124	111			220
9	181	---	---			127	164	---	---			198
10	183	---	---			---	---	133	125			---
11	---	---	137			---	140	---	---			---
12	151	---	134			---	151	---	---			200
13	167	---	---			---	162	---	---			215
14	---	---	---			---	---	133	---			184
15	---	---	---			145	---	123	116			207
16	159	---	---			155	160	---	---			211
17	---	---	---			---	151	---	---			203
18	---	---	---			---	---	---	104			189
19	---	---	---			---	---	127	---			189
20	---	87	---			---	169	---	113			178
21	---	---	---			---	162	134	103			189
22	---	---	---			---	---	125	---			189
23	198	---	---			---	---	---	---			189
24	---	102	---			140	161	---	89			184
25	---	---	---			---	151	---	---			173
26	---	119	---			---	150	---	95			189
27	---	---	---			151	---	118	---			144
28	---	---	---			---	---	125	94			133
29	---	137	---			---	---	---	100			144
30	---	---	---			160	---	130	---			133
31	---	---	---			164	---	---	---			---
MONTH	---	---	---			---	---	---	---			190

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT							
06...	1315	--	3070	3110	12	99	64
28...	1400	13.0	3550	3480	7	67	47
NOV							
22...	1415	12.0	5020	5060	7	95	79
JAN							
07...	1315	4.0	3980	4020	4	43	67
FEB							
23...	1250	8.5	6790	6720	28	513	77
MAR							
30...	1145	13.0	5970	6020	13	210	70
APR							
22...	1330	15.0	4460	4490	10	120	65
MAY							
24...	1300	16.0	5240	5110	8	113	50
JUL							
14...	1405	22.0	1800	1800	4	19	51
AUG							
30...	1525	23.0	1440	1400	3	12	--
SEP							
15...	1400	18.0	1430	1430	3	12	63

11530500 KLAMATH RIVER NEAR KLAMATH, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	17.0	15.0	13.0	7.0	6.5	6.5	5.5	8.5	7.0	9.0	8.0
2	18.5	16.5	15.5	13.5	7.0	6.5	6.5	6.0	8.5	6.5	8.5	8.0
3	18.0	15.5	15.0	13.5	6.5	6.0	6.5	6.0	7.5	6.5	8.5	8.0
4	18.0	15.0	14.5	13.0	6.5	6.0	6.5	6.0	8.5	6.5	8.5	7.5
5	17.5	15.0	13.5	12.0	6.5	6.0	6.5	6.0	7.5	7.0	9.5	8.0
6	19.5	15.5	12.5	12.0	6.5	6.0	6.0	5.0	11.0	7.5	9.5	8.5
7	19.0	16.5	12.5	12.0	6.5	6.0	5.0	4.0	9.5	8.0	9.0	8.5
8	19.0	16.5	12.0	11.5	7.0	6.0	4.5	4.0	10.5	8.5	10.0	9.0
9	18.5	16.0	12.0	11.5	7.0	6.5	4.0	3.5	11.5	9.5	---	---
10	18.0	15.5	13.0	11.5	6.5	6.0	5.5	4.0	12.0	9.5	---	---
11	19.0	15.5	12.5	12.5	6.5	5.5	6.5	5.5	12.5	10.0	---	---
12	19.5	15.5	12.5	12.0	6.5	5.5	6.5	6.5	12.5	10.0	---	---
13	18.0	16.0	12.0	12.0	6.0	5.5	6.5	6.0	12.5	10.0	---	---
14	16.5	15.5	12.0	11.0	6.0	5.5	6.5	5.5	13.0	10.0	---	---
15	17.0	15.0	12.0	11.5	6.5	5.5	6.0	5.5	12.5	10.0	---	---
16	16.5	14.5	12.0	11.5	6.5	6.0	6.0	5.5	12.5	10.5	---	---
17	16.5	14.5	12.5	12.0	6.5	5.5	6.0	5.5	12.0	10.0	---	---
18	15.5	13.5	12.5	12.0	6.0	5.5	7.0	5.5	12.5	10.0	---	---
19	16.0	14.0	12.5	11.5	5.5	5.0	7.0	6.0	12.5	10.0	---	---
20	15.5	13.5	11.5	10.5	5.5	5.0	7.0	6.5	13.0	10.5	---	---
21	15.0	13.5	11.5	11.0	5.0	4.5	8.0	7.0	11.5	10.0	---	---
22	16.0	13.5	12.0	11.0	5.5	5.0	8.0	7.5	10.0	9.0	---	---
23	15.5	13.5	11.0	10.5	6.0	5.5	8.0	7.0	9.5	8.5	---	---
24	14.0	12.0	11.0	10.0	6.0	5.0	7.5	6.5	8.5	8.0	---	---
25	14.0	12.5	11.0	10.5	6.5	5.5	7.0	6.0	8.5	7.5	---	---
26	14.0	12.5	10.5	9.5	6.5	6.0	7.0	6.0	9.0	8.0	---	---
27	14.0	12.0	9.5	8.0	6.0	5.5	7.5	6.0	9.5	8.5	---	---
28	13.0	11.5	8.0	7.0	5.5	5.0	7.0	6.0	9.5	9.0	---	---
29	12.5	11.5	7.5	6.5	7.0	5.5	7.5	5.5	---	---	---	---
30	14.0	12.0	7.0	6.5	8.0	7.0	7.0	6.0	---	---	---	---
31	13.0	12.5	---	---	7.0	6.0	8.0	6.5	---	---	---	---
MONTH	19.5	11.5	15.5	6.5	8.0	4.5	8.0	3.5	13.0	6.5	---	---

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

11532500 SMITH RIVER NEAR CRESCENT CITY, CA

LOCATION.--Lat 41°47'22", long 124°03'14", in SW¼SW¼ sec.10, T.16 N., R.1 E. (unsurveyed), Del Norte County, Six Rivers National Forest, on left bank 0.5 mi (0.8 km) downstream from South Fork, and 8 mi (13 km) east of Crescent City.

DRAINAGE AREA.--609 mi^2 (1,577 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 89.61 ft (27.313 m) above mean sea level.

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

AVERAGE DISCHARGE.--46 years, 3,809 ft^3/s (107.9 m^3/s), 2,760,000 acre-ft/yr (3.40 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 228,000 ft^3/s (6,460 m^3/s) Dec. 22, 1964, gage height, 48.5 ft (14.78 m) from floodmarks, from rating curve extended above 110,000 ft^3/s (3,120 m^3/s) on basis of slope-area measurement at gage height 39.51 ft (12.043 m); minimum daily, 160 ft^3/s (4.53 m^3/s) Oct. 24, 25, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,800 ft^3/s (447 m^3/s) Sept. 28, gage height, 17.77 (5.416 m), no peak above base of 36,000 ft^3/s (1,020 m^3/s); minimum daily, 189 ft^3/s (5.35 m^3/s) Sept. 13-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	243	427	268	281	379	5030	1800	1020	1170	433	272	229
2	242	395	265	1010	363	3450	1740	1300	1100	442	271	226
3	239	324	260	2270	355	3470	1690	3230	1040	421	267	220
4	239	292	260	1540	347	2880	1800	3500	998	414	261	216
5	237	271	255	970	345	2380	2110	3370	956	409	260	216
6	233	263	253	719	361	2200	2110	3110	916	405	260	213
7	227	255	251	596	357	3660	2090	2640	876	401	260	210
8	226	247	261	526	362	9770	2350	2250	838	392	260	204
9	226	245	347	476	387	11400	2010	2050	791	384	260	195
10	226	320	303	582	375	6760	1720	1970	763	383	257	192
11	226	335	274	842	361	4560	1540	2010	752	373	247	192
12	226	312	265	2180	354	5110	1450	1920	723	363	240	192
13	224	301	257	1570	351	4670	1470	1770	696	356	239	189
14	218	707	256	1140	344	3710	1420	1660	669	348	239	189
15	216	1160	253	929	336	3070	1330	1550	645	342	239	189
16	216	858	251	776	332	2600	1320	1500	619	335	238	198
17	214	622	250	688	325	2300	1260	1460	599	329	232	270
18	213	495	244	628	317	2080	1160	1400	596	325	229	900
19	213	415	243	598	313	2000	1090	1380	581	324	229	650
20	213	379	241	576	390	1970	1040	1320	567	324	229	520
21	213	355	239	560	1030	1910	1010	1290	565	320	232	460
22	213	336	239	531	2590	1960	980	1250	549	313	236	410
23	213	322	239	500	2770	2270	965	1280	526	308	231	380
24	233	312	236	467	2960	2950	957	1220	510	307	263	600
25	459	304	236	445	2440	3050	1020	1150	491	307	349	480
26	375	293	248	425	2100	2720	1100	1720	479	307	364	400
27	289	284	312	412	2470	2770	952	1910	461	301	320	490
28	261	277	291	398	6720	2660	916	1620	442	292	268	9420
29	251	275	298	388	---	2350	904	1440	433	291	257	6400
30	258	273	309	378	---	2110	883	1320	425	288	257	2610
31	270	---	289	378	---	1900	---	1230	---	277	246	---
TOTAL	7552	11654	8193	23779	30134	109720	42187	55840	20776	10814	8012	27260
MEAN	244	388	264	767	1076	3539	1406	1801	693	349	258	909
MAX	459	1160	347	2270	6720	11400	2350	3500	1170	442	364	9420
MIN	213	245	236	281	313	1900	883	1020	425	277	229	189
AC-FT	14980	23120	16250	47170	59770	217600	83680	110800	41210	21450	15890	54070

CAL YR 1976 TOTAL 757034 MEAN 2068 MAX 31700 MIN 213 AC-FT 1502000
WTR YR 1977 TOTAL 355921 MEAN 975 MAX 11400 MIN 189 AC-FT 706000

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.
WATER TEMPERATURES: Water years 1966 to current year.
SEDIMENT RECORDS: Water years 1955-56.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1965 to current year.

INSTRUMENTATION.--Temperature recorder since October 1965.

REMARKS.--Where no maximum or minimum is shown, temperature is once-daily reading.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 24.5°C July 15, 1972, July 26, 27, 1973; minimum recorded, 0.5°C Dec. 10, 11, 1972.

EXTREMES FOR CURRENT YEAR.--Water temperatures: Maximum, 24.0°C July 31, Aug. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT 04...	1515	--	239	153	8.2	16.0	0	10.4
NOV 08...	1615	--	247	150	8.0	12.0	0	11.4
DEC 06...	1600	--	253	149	7.8	6.5	0	12.8
JAN 05...	0720	--	1020	124	7.6	5.5	1	13.3
FEB 01...	1700	--	379	141	8.2	7.0	0	14.0
MAR 07...	1725	--	4050	115	8.4	8.0	0	12.5
APR 04...	1615	--	1860	115	7.6	12.0	0	11.2
MAY 02...	1530	--	1230	106	8.4	13.0	1	11.7
JUN 13...	1530	--	696	130	8.0	18.0	0	10.4
JUL 11...	1600	--	373	146	8.2	21.0	0	9.7
AUG 08...	1500	--	260	149	8.3	21.5	0	9.7
SEP 19...	1600	650	--	131	8.0	16.0	3	9.9

DATE	TIME	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
DEC 06...	1600	70	4	8.3	12	3.2	9	.2	1.0	81
JAN 05...	0720	68	9	--	--	2.5	--	.1	--	72
FEB 01...	1700	66	5	--	--	2.4	--	.1	--	74
MAR 07...	1725	55	6	--	--	1.7	--	.1	--	60
APR 04...	1615	55	6	--	--	1.6	--	.1	--	60
JUN 13...	1530	61	4	--	--	2.0	--	.1	--	70
SEP 19...	1600	63	6	--	--	2.7	--	.1	--	70

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED BORON (B) (UG/L)
DEC 06...	0	66	3.3	7.5	79	75	.11	54.0	0
JAN 05...	0	59	--	4.0	--	--	--	--	0
FEB 01...	0	61	--	3.6	--	--	--	--	0
MAR 07...	0	49	--	3.1	--	--	--	--	0
APR 04...	0	49	--	3.1	--	--	--	--	0
JUN 13...	0	57	--	2.5	--	--	--	--	0
SEP 19...	0	57	--	2.0	--	--	--	--	0

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	17.0	--	16.5	--	--	--	--	--	--	--	--	--	7.5	--	5.0	8.5	--	7.0
2	16.5	--	15.5	--	--	--	--	--	--	--	--	--	7.0	--	5.0	7.5	--	5.5
3	--	--	--	--	--	--	--	--	--	--	--	--	7.0	--	5.0	7.5	--	6.0
4	--	--	--	--	--	--	--	--	--	--	--	--	7.0	--	5.0	8.5	--	6.0
5	--	15.0	--	--	--	--	--	--	--	--	--	--	7.0	--	6.0	8.5	--	6.0
6	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	6.0	9.0	--	6.5
7	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	6.0	8.5	--	6.5
8	--	--	--	--	--	--	--	--	--	--	--	--	8.5	--	7.5	8.5	--	8.5
9	--	--	--	--	--	--	--	--	--	--	--	--	8.5	--	8.0	8.5	--	8.0
10	--	--	--	--	--	--	--	--	--	--	--	--	9.0	--	8.0	8.5	--	7.5
11	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	8.0	8.0	--	5.5
12	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	8.0	7.5	--	6.5
13	--	--	--	--	--	--	--	--	--	--	--	--	10.0	--	8.0	8.0	--	7.0
14	--	--	--	--	--	--	--	--	--	--	--	--	10.0	--	8.5	7.5	--	6.0
15	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	8.0	7.5	--	6.5
16	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	8.0	7.5	--	6.5
17	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	8.0	9.5	--	7.0
18	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	7.5	8.5	--	7.5
19	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	8.0	7.5	--	7.0
20	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	9.0	9.5	--	7.5
21	--	--	--	--	--	--	--	--	--	--	6.0	--	9.0	--	8.0	10.0	--	7.5
22	--	--	--	--	--	--	--	--	--	7.0	--	5.5	8.0	--	6.0	10.0	--	7.5
23	--	--	--	--	9.5	--	--	--	--	6.5	--	5.0	8.0	--	6.0	9.5	--	8.0
24	--	--	--	--	--	--	--	--	--	5.5	--	4.0	7.5	--	5.5	8.0	--	6.5
25	--	--	--	--	--	--	--	--	--	5.5	--	3.5	7.5	--	6.5	9.5	--	7.5
26	--	--	--	--	--	--	--	--	--	6.0	--	4.0	8.0	--	7.5	10.0	--	8.0
27	--	--	--	--	--	--	--	--	--	6.0	--	4.0	8.5	--	8.0	9.5	--	7.0
28	--	--	--	--	--	--	--	--	--	6.0	--	4.0	8.5	--	8.0	9.0	--	7.0
29	--	--	--	--	--	--	--	--	--	6.0	--	4.0	--	--	--	8.0	--	6.0
30	--	--	--	--	--	--	--	--	--	6.5	--	4.0	--	--	--	9.5	--	6.0
31	--	--	--	--	--	--	--	--	--	7.0	--	6.5	--	--	--	9.0	--	7.0
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	10.0	--	5.0	10.0	--	5.5

11532500 SMITH RIVER NEAR CRESCENT CITY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	10.0	--	9.0	14.0	--	13.5	16.5	--	15.0	20.5	--	19.5	22.5	--	21.5	21.0	--	19.0
2	11.5	--	8.5	13.5	--	12.5	16.0	--	13.5	21.0	--	19.0	24.0	--	21.5	21.0	--	19.0
3	10.5	--	8.5	13.5	--	12.0	15.0	--	13.5	20.0	--	19.0	23.0	--	21.5	20.5	--	18.5
4	12.0	--	8.5	12.0	--	10.0	17.0	--	13.5	20.0	--	18.5	22.5	--	21.0	21.5	--	20.0
5	12.5	--	9.5	11.0	--	9.5	18.5	--	16.0	19.0	--	18.0	21.5	--	20.0	22.0	--	20.5
6	12.5	--	9.5	10.5	--	8.0	19.0	--	17.5	19.5	--	17.5	20.0	--	20.0	22.0	--	20.5
7	12.0	--	9.5	10.0	--	8.5	19.0	--	17.5	20.0	--	18.5	20.0	--	19.5	22.0	--	20.0
8	12.0	--	9.5	11.0	--	7.5	19.5	--	17.0	20.0	--	19.0	21.5	--	19.5	22.0	--	19.5
9	11.5	--	9.5	12.0	--	10.0	19.0	--	17.5	19.5	--	19.0	21.5	--	20.0	21.5	--	19.5
10	12.0	--	8.0	12.0	--	10.5	18.0	--	16.0	20.5	--	18.5	21.5	--	20.0	20.5	--	19.0
11	11.5	--	9.5	11.0	--	9.5	17.0	--	15.0	21.0	--	19.0	21.5	--	20.0	20.5	--	18.5
12	12.5	--	9.5	11.5	--	9.5	18.0	--	16.0	21.0	--	19.5	21.0	--	20.0	19.5	--	18.5
13	12.5	--	10.5	12.0	--	10.0	18.0	--	16.0	21.5	--	19.0	20.5	--	19.0	19.0	--	18.0
14	13.0	--	10.0	13.0	--	11.0	18.5	--	17.0	22.0	--	20.0	19.0	--	19.0	18.5	--	17.5
15	12.5	--	9.5	12.0	--	10.5	19.5	--	17.5	22.0	--	20.0	21.0	--	19.0	17.5	--	16.5
16	12.5	--	10.5	11.5	--	10.5	20.0	--	18.0	22.5	--	20.5	20.5	--	19.0	16.5	--	16.0
17	13.5	--	10.5	12.0	--	10.0	19.5	--	17.0	22.5	--	21.0	19.5	--	19.0	16.5	--	15.5
18	13.0	--	10.5	12.0	--	10.5	17.0	--	16.0	22.5	--	21.0	19.5	--	18.5	16.5	--	16.0
19	14.0	--	11.0	13.5	--	10.5	18.0	--	16.5	22.0	--	20.5	19.5	--	19.0	16.5	--	15.5
20	14.0	--	11.0	14.5	--	12.5	18.0	--	17.0	22.0	--	20.5	19.0	--	19.0	16.0	--	15.0
21	14.0	--	12.0	14.5	--	13.0	20.0	--	17.5	21.5	--	19.5	19.5	--	18.5	16.0	--	14.5
22	14.0	--	12.5	14.0	--	12.0	20.5	--	18.5	22.0	--	20.0	21.0	--	18.5	15.5	--	14.5
23	14.0	--	12.0	12.0	--	11.0	20.5	--	19.0	22.0	--	20.5	21.0	--	19.0	15.5	--	15.0
24	14.5	--	12.0	14.0	--	11.0	21.0	--	19.0	21.0	--	19.0	20.5	--	19.5	15.5	--	14.5
25	14.0	--	12.5	13.5	--	12.5	21.5	--	20.0	19.0	--	18.5	19.5	--	18.0	16.0	--	14.0
26	14.0	--	12.0	12.5	--	11.5	21.5	--	20.0	21.0	--	18.0	19.5	--	18.0	16.0	--	15.0
27	14.0	--	12.5	12.0	--	10.0	22.0	--	20.0	21.5	--	19.0	20.0	--	18.0	16.0	--	15.0
28	14.0	--	13.0	13.0	--	10.5	22.0	--	20.0	21.5	--	19.5	19.5	--	19.0	15.0	--	13.0
29	14.5	--	12.5	14.0	--	11.5	23.0	--	21.0	22.0	--	19.5	21.0	--	19.0	13.5	--	13.0
30	14.5	--	13.0	14.5	--	12.5	22.0	--	20.5	23.0	--	20.5	21.5	--	20.0	13.0	--	12.0
31	--	--	--	16.0	--	13.0	--	--	--	24.0	--	21.0	21.5	--	19.5	--	--	--
MONTH	14.5	--	8.0	16.0	--	7.5	23.0	--	13.5	24.0	--	17.5	24.0	--	18.0	22.0	--	12.0

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, Redwood National Park, on left bank 200 ft (61 m) downstream from small left-bank tributary, 0.9 mi (1.4 km) downstream from confluence of West Branch and East Fork Mill Creeks, and 4.9 mi (7.9 km) east of Crescent City.

DRAINAGE AREA.--28.6 mi^2 (74.1 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (55 m), from topographic map.

REMARKS.--Records good. Minor regulation and diversion above station for lumber mill and park campground use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,460 ft^3/s (126 m^3/s) Mar. 18, 1975, gage height, 8.51 ft (2.594 m); minimum daily, 2.5 ft^3/s (0.071 m^3/s) Oct. 2-5, 23, 24, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,720 ft^3/s (48.7 m^3/s) Sept. 28 (1345 hrs), gage height, 4.89 ft (1.490 m), no other peak above base of 1,100 ft^3/s (31 m^3/s); minimum daily, 3.4 ft^3/s (0.096 m^3/s) Oct. 9, 13-21, Sept. 9-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	8.1	4.9	6.2	7.8	154	60	24	26	12	4.9	5.1
2	4.2	7.3	4.7	21	7.5	112	56	27	25	12	4.5	4.4
3	4.4	7.0	4.7	64	7.5	111	52	129	24	11	4.0	4.2
4	4.4	6.7	4.7	40	7.5	84	48	88	24	10	4.0	4.2
5	3.9	6.0	4.7	28	7.5	67	45	79	23	9.9	4.2	4.2
6	3.9	5.5	4.7	22	7.5	56	43	74	22	9.3	4.7	4.2
7	3.9	5.5	4.5	19	7.5	132	39	63	21	9.3	4.9	3.7
8	3.7	5.3	6.0	16	11	321	58	55	21	9.3	4.9	3.5
9	3.4	5.1	8.1	15	12	428	50	50	20	9.3	4.9	3.4
10	3.5	5.0	6.5	17	11	266	45	47	19	9.3	4.9	3.4
11	3.7	6.0	6.0	26	10	185	41	45	20	8.9	4.5	3.4
12	3.5	7.0	5.7	52	9.7	239	39	42	19	8.1	4.2	3.4
13	3.4	6.3	5.3	36	9.0	214	38	39	18	8.1	4.2	3.4
14	3.4	6.1	5.1	28	8.4	183	35	38	17	8.0	4.4	3.4
15	3.4	32	5.1	23	8.1	154	35	35	17	7.5	4.5	3.4
16	3.4	17	5.1	21	7.8	125	33	36	16	7.5	4.4	4.2
17	3.4	12	4.9	18	7.5	101	32	33	16	7.2	4.0	12
18	3.4	10	4.7	16	7.5	86	30	32	16	7.0	4.0	17
19	3.4	9.0	4.7	15	7.3	77	29	32	16	6.5	4.0	128
20	3.4	8.1	4.7	14	17	69	28	30	16	6.5	4.0	121
21	3.4	7.5	4.7	13	37	62	27	30	15	6.2	4.4	48
22	3.5	6.7	4.7	12	96	56	26	29	15	6.2	4.5	32
23	3.5	6.0	4.4	11	101	74	26	31	14	5.7	4.0	26
24	5.1	6.0	4.2	11	110	194	24	29	13	5.7	7.6	48
25	7.8	6.0	4.2	10	87	167	27	27	12	6.2	9.7	35
26	6.2	5.3	4.5	9.3	62	125	25	42	12	6.2	9.7	28
27	5.5	5.3	4.9	8.9	51	107	23	39	11	6.2	7.9	29
28	5.5	5.3	5.1	8.7	188	92	23	34	10	6.0	7.2	846
29	5.3	5.1	7.5	8.7	---	79	24	32	9.9	5.5	6.7	413
30	6.0	4.9	7.0	8.5	---	71	23	30	9.7	5.5	6.1	182
31	6.0	---	6.2	8.4	---	64	---	27	---	5.1	6.1	---
TOTAL	131.4	233.1	162.2	606.7	911.1	4255	1084	1348	517.6	241.2	162.0	2026.5
MEAN	4.24	7.77	5.23	19.6	32.5	137	36.1	43.5	17.3	7.78	5.23	67.6
MAX	7.8	32	8.1	64	188	428	60	129	26	12	9.7	846
MIN	3.4	4.9	4.2	6.2	7.3	56	23	24	9.7	5.1	4.0	3.4
AC-FT	261	462	322	1200	1810	8440	2150	2670	1030	478	321	4020

CAL YR 1976 TOTAL 24307.5 MEAN 66.4 MAX 1240 MIN 3.4 AC-FT 48210
WTR YR 1977 TOTAL 11678.8 MEAN 32.0 MAX 846 MIN 3.4 AC-FT 23160

11532620 MILL CREEK NEAR CRESCENT CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974-75, 1977.
WATER TEMPERATURES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: February 1974 to current year.

INSTRUMENTATION.--Temperature recorder since February 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 23.5°C July 25, 1974; minimum, 3.5°C Feb. 6, 1976, Jan. 28, 29, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 22.0°C July 31, Aug. 2; minimum, 3.5°C Feb. 6, Jan. 28, 29.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 16...	1645	4.4	79	7.2	19.0	10.5	25	0	6.2

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 16...	2.2	4.7	28	.4	1.0	34	0	28	2.1

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 16...	5.1	.0	7.1	45	.06	.53	.00	40	80

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

11532620 MILL CREEK NEAR CRESCENT CITY, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	9.0	13.0	12.0	---	---	17.5	15.5	20.0	18.0	---	---
2	12.0	7.5	14.5	11.0	---	---	19.0	14.5	22.0	18.5	---	---
3	13.0	8.0	13.0	10.5	---	---	18.0	15.0	20.0	18.0	---	---
4	13.5	9.0	12.0	10.0	---	---	18.5	14.5	20.0	17.5	---	---
5	13.0	9.5	12.0	9.5	---	---	17.5	13.5	19.0	17.0	---	---
6	13.5	9.5	12.5	8.5	---	---	18.5	13.5	17.5	16.5	---	---
7	11.5	10.0	12.5	9.0	---	---	18.5	14.5	17.0	16.5	---	---
8	12.5	9.5	14.0	8.5	---	---	18.0	15.0	19.5	16.0	---	---
9	12.5	8.5	12.5	9.5	---	---	17.5	15.5	18.0	17.0	---	---
10	12.0	8.0	12.0	10.5	---	---	19.0	14.5	19.5	16.5	---	---
11	13.5	9.0	12.5	10.0	---	---	19.0	15.0	20.0	17.0	---	---
12	13.0	8.5	14.0	9.5	---	---	18.5	15.5	19.0	17.0	---	---
13	13.5	10.0	13.5	9.5	---	---	19.5	15.0	18.0	16.5	---	---
14	13.0	8.0	14.5	11.0	---	---	20.0	15.5	16.5	16.0	---	---
15	13.0	9.0	13.5	10.5	---	---	20.0	16.0	19.0	15.5	---	---
16	14.0	10.0	13.0	10.5	---	---	20.0	16.5	19.0	16.0	---	---
17	13.0	9.0	14.0	10.5	---	---	20.0	16.0	---	---	---	---
18	13.0	8.5	12.5	10.5	---	---	20.0	16.5	---	---	---	---
19	14.0	8.5	16.0	11.0	---	---	20.0	16.5	---	---	---	---
20	12.5	9.5	15.5	12.0	---	---	20.0	16.5	---	---	---	---
21	14.0	10.0	15.0	12.5	---	---	20.0	16.0	---	---	---	---
22	13.5	10.0	13.0	11.5	---	---	20.0	16.0	---	---	---	---
23	14.0	9.5	14.0	11.0	---	---	20.0	16.5	---	---	---	---
24	13.5	10.0	16.0	11.0	---	---	18.5	16.5	---	---	---	---
25	12.5	11.0	14.0	12.0	---	---	17.0	16.0	---	---	---	---
26	14.5	10.5	14.0	12.0	---	---	19.5	15.5	---	---	---	---
27	15.0	11.0	15.0	10.5	---	---	19.5	15.5	---	---	---	---
28	12.5	11.5	---	---	19.5	16.0	20.0	16.0	---	---	13.5	12.5
29	14.0	11.0	---	---	21.0	17.0	20.5	16.0	---	---	13.5	12.5
30	14.5	12.0	---	---	18.5	16.0	21.5	17.0	---	---	13.5	11.5
31	---	---	---	---	---	---	22.0	17.5	---	---	---	---
MONTH	15.0	7.5	16.0	8.5	---	---	22.0	13.5	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
NOV								
16...	1230	12.0	17	2	.09	--	--	--
JAN								
12...	1355	7.5	51	5	.69	--	--	--
FEB								
28...	1315	8.0	242	27	18	96	98	100
MAR								
25...	1505	11.0	160	4	1.7	--	--	--
APR								
27...	1355	13.0	23	3	.19	--	--	--
JUN								
28...	1110	16.0	10	3	.08	--	--	--

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 statons and the second is a table of annual maximum discharge at crest-stage stations.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same or practically the same site.

Discharge measurements made at low-flow partial-record stations during water year 1977

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Little Sur River basin				
11143020	Little Sur River near Point Sur, CA	Lat 36°19'57", long 121°53'03", in SE¼ sec.29, T.18 S., R.1 E., Monterey County, at bridge on State Highway 1, 0.5 mi (0.8 km) upstream from mouth, and 2.0 mi (3.2 km) northeast of Point Sur.	39.9	1977a	6-29-77 8-10-77 9-7-77	b 1.71 b .82 b .57
		Garrapata Creek basin				
11143045	Garrapata Creek below Joshua Creek, near Notleys Landing, CA	Lat 36°24'57", long 121°54'20", in NE¼NW¼ sec.31, T.17 S., R.1 E., Monterey County, 350 ft (107 m) downstream from Joshua Creek, 0.8 mi (1.3 km) upstream from State Highway 1, 0.9 mi (1.4 km) upstream from mouth, and 1.3 mi (2.1 km) northwest of Notleys Landing.	10.4	1977	6-29-77 9-7-77	b 0.66 b .22
11143046	Garrapata Creek at State Highway 1, near Notleys Landing, CA	Lat 36°25'02", long 121°54'45", in San Jose Y Sur Chiquito Grant, Monterey County, at bridge on State Highway 1, 800 ft (244 m) upstream from mouth, and 1.5 mi (2.4 km) northwest of Notleys Landing.	10.6	1977a	8-10-77	b 0.37
		San Jose Creek basin				
11143100	San Jose Creek near Carmel, CA	Lat 36°31'23", long 121°55'31", in San Jose Y Sur Chiquito Grant, Monterey County, at bridge on State Highway 1, 0.2 mi (0.3 km) upstream from mouth, and 2.3 mi (3.7 km) south of Carmel Post Office.	14.2	1977	6-7-77 6-29-77 8-10-77 9-7-77	0 0 0 0
		Salinas River basin				
11147010	Jack Creek at mouth, near Templeton, CA	Lat 35°32'57", long 120°47'35", in Paso de Robles Grant, San Luis Obispo County, 200 ft (61 m) upstream from mouth and 5.0 mi (8.0 km) west of Templeton.	26.8	1977	5-3-77 6-7-77 8-14-77 9-9-77	0 0 0 0
11147055	Paso Robles Creek at York Mountain Road, near Templeton, CA	Lat 35°32'55", long 120°47'30", in Paso de Robles Grant, San Luis Obispo County, at old York Mountain Road bridge, 250 ft (76 m) downstream from Jack Creek, and 4.9 mi (7.9 km) west of Templeton.	30.6	1977	5-3-77 6-7-77 8-4-77 9-9-77	0 0 0 0
11147090	Paso Robles Creek near Templeton, CA	Lat 35°32'15", long 120°43'33", in Paso de Robles Grant, San Luis Obispo County, 250 ft (76 m) downstream from Cayucos Road, 1.4 mi (2.3 km) southwest of Templeton, and 1.8 mi (2.9 km) upstream from mouth.	65.8	1977	5-2-77 6-8-77 8-4-77 9-9-77	0 0 0 0
		Pajaro River basin				
11159150	Corralitos Creek near Corralitos, CA	Lat 37°00'20", long 121°48'25", in Los Corralitos Grant, Santa Cruz County, 0.5 mi (0.8 km) downstream from Morman Gulch, 1.2 mi (1.9 km) upstream from Corralitos, and 7 mi (11 km) northwest of Watsonville.	10.6	1958-72‡, 1977a	6-29-77 8-19-77 9-14-77	b 1.66 b 1.29 b 1.29

See footnotes at end of this table.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Pajaro River basin--Continued				
11159500	Pajaro River at Watsonville, CA	Lat 36°54'19", long 121°45'01", in Bolsa del Pajaro Grant, Santa Cruz County, at bridge on State Highway 1 in Watsonville and 5 mi (8 km) upstream from mouth.	1,273	1912-13‡, 1972-73‡, 1977a	6-29-77 8-19-77 9-12-77	b 0.08 b .02 b .02
		Aptos Creek basin				
11159700	Aptos Creek at Aptos, CA	Lat 36°58'33", long 121°54'05", in Aptos Grant, Santa Cruz County, at Aptos 0.6 mi (1.0 km) upstream from mouth.	12.3	1959-72‡, 1977a	7-6-77 8-25-77 9-12-77	b 0.46 b .40 b .32
		Soquel Creek basin				
11159800	West Branch Soquel Creek near Soquel, CA	Lat 37°03'03", long 121°56'17", in NW¼ sec.23, T.10 S., R.1 W., Santa Cruz County, 0.5 mi (0.8 km) upstream from mouth and 4.5 mi (7.2 km) north of Soquel.	12.2	1959-72‡, 1977a	6-29-77 8-25-77 9-13-77	b 0.70 b .73 b .40
11159940	Soquel Creek near Soquel, CA	Lat 37°02'02", long 121°56'35", in NW¼ sec.26, T.10 S., R.1 W., Santa Cruz County, 30 ft (9 m) downstream from private road bridge, 1.1 mi (1.8 km) downstream from West Branch, and 3.4 mi (5.5 km) north of town of Soquel.	32.0	1969-72‡, 1977	6-29-77 8-25-77	b 0.72 b .34
		Rodeo Creek basin				
11160005	Rodeo Creek at Soquel, CA	Lat 36°59'16", long 121°58'09", in SE¼ sec.9, T.11 S., R.1 W., Santa Cruz County, at Soquel Avenue bridge, 0.7 mi (1.2 km) west of Soquel, and 2.2 mi (3.5 km) upstream from mouth.	1.86	1977	7-6-77 8-25-77 9-12-77	0 0 0
		San Lorenzo River basin				
11160250	Fall Creek at Felton, CA	Lat 37°03'33", long 122°04'42", in Zayante Grant, Santa Cruz County, at upstream side of bridge on State Highway 9, 350 ft (107 m) upstream from mouth, and 0.7 mi (1.1 km) northwest of Felton.	4.94	1974-76c, 1977a	2-7-77 7-6-77 8-18-77	b 1.05 b .64 b .52
11161500	Branciforte Creek at Santa Cruz, CA	Lat 36°59'10", long 122°00'48", in NE¼SW¼ sec.7, T.11 S., R.1 W., Santa Cruz County, in Santa Cruz, 15 ft (5 m) downstream from Market Street bridge, and 1.0 mi (1.6 km) upstream from mouth.	17.3	1940-43‡, 1952-68‡, 1974-75c, 1977a	6-30-77 8-26-77 9-12-77	b 0.86 b 1.08 b .83
		Majors Creek basin				
11161570	Majors Creek near Santa Cruz, CA	Lat 36°59'55", long 122°07'13", in Refugio Grant, Santa Cruz County, 1.5 mi (2.4 km) downstream from small left-bank tributary, 1.7 mi (2.7 km) upstream from State Highway 1, and 5.5 mi (8.8 km) northwest of Santa Cruz Post Office.	3.77	1970-76‡, 1977a	7-18-77 8-18-77 9-12-77	b 0.86 b .76 b .68
		Laguna Creek basin				
11161590	Laguna Creek near Davenport, CA	Lat 37°01'32", long 122°07'48", in SW¼SW¼ sec.30, T.10 S., R.2 W., Santa Cruz County, 0.2 mi (0.3 km) upstream from Reggiardo Creek, 0.4 mi (0.6 km) downstream from small left-bank tributary, and 3.6 mi (5.8 km) northwest of Davenport.	3.07	1970-76‡, 1977a	7-18-77 8-18-77 9-12-77	b 0.25 b .14 b .15
		Scott Creek basin				
11161900	Scott Creek above Little Creek, near Davenport, CA	Lat 37°03'51", long 122°13'42", in Agua Puerco y Las Trancas Grant, Santa Cruz County, 600 ft (183 m) upstream from Little Creek, 2.0 mi (3.2 km) upstream from mouth, and 4.2 mi (6.8 km) north of Davenport.	25.1	1959-73‡, 1977	6-30-77 8-26-77 9-12-77	b 0.16 0 0
11162000	Scott Creek near Davenport, CA	Lat 37°03'35", long 122°13'40", in Agua Puerca y Las Trancas Grant, Santa Cruz County, about 1,000 ft (300 m) downstream from Little Creek, and 3.5 mi (5.6 km) northwest of Davenport.	27.3	1937‡, 1939-41‡, 1977	6-30-77 8-26-77 9-12-77	0 0 0

See footnotes at end of this table.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Waddell Creek basin				
11162210	Waddell Creek near Davenport, CA	Lat 37°06'21", long 122°16'18", in NW¼SW¼ sec.35, T.9 S., R.4 W., Santa Cruz County, 0.9 mi (1.4 km) upstream from State Highway 1, 1.1 mi (1.8 km) upstream from mouth, and 7.9 mi (12.7 km) northwest of Davenport.	23.3	1977	7-8-77 8-29-77 9-13-77	0 0 0
		Pescadero Creek basin				
11162540	Butano Creek near Pescadero, CA	Lat 37°14'01", long 122°21'56", in Butano Grant, San Mateo County, 0.2 mi (0.3 km) downstream from small right-bank tributary, and 1.7 mi (2.7 km) southeast of Pescadero.	18.3	1957, 1959-62*, 1962-74‡, 1977	7-7-77 8-29-77 9-13-77	b 0.02 0 b .02
		Pomponio Creek basin				
11162550	Pomponio Creek near San Gregorio, CA	Lat 37°18'00", long 122°24'13", in San Gregorio Grant, San Mateo County, at bridge on State Highway 1, 0.2 mi (0.3 km) upstream from mouth, and 2.1 mi (3.4 km) southwest of San Gregorio.	6.85	1977	7-8-77 8-29-77 9-13-77	b 0.01 0 0
		Purisima Creek basin				
11162600	Purisima Creek near Half Moon Bay, CA	Lat 37°26'06", long 122°22'23", in Canada de Verde y Arroyo de la Purisima Grant, San Mateo County, 15 ft (5 m) downstream from county road bridge, 3.6 mi (5.8 km) southeast of Half Moon Bay, and 4.0 mi (6.4 km) upstream from mouth.	4.83	1959-69‡, 1977a	7-8-77 8-29-77 9-13-77	b 0.26 b .21 b .15
		Frenchmans Creek basin				
11162635	Frenchmans Creek near Half Moon Bay, CA	Lat 37°29'00", long 122°26'42", in Corral de Tierra (Vasquez) Grant, San Mateo County, at bridge on State Highway 1, 0.4 mi (0.6 km) upstream from mouth, and 1.7 mi (2.7 km) northwest of town of Half Moon Bay.	4.17	1977	7-8-77 8-29-77 9-13-77	0 0 0
		Denniston Creek basin				
11162640	Denniston Creek at El Granada, CA	Lat 37°30'35", long 122°29'13", in Corral de Tierra (Palomares) Grant, San Mateo County, at bridge on State Highway 1, 0.5 mi (0.8 km) upstream from mouth, and 0.9 mi (1.4 km) northwest of El Granada.	3.67	1977	7-8-77 8-29-77 9-13-77	0 0 0
		San Vicente Creek basin				
11162645	San Vicente Creek at Moss Beach, CA	Lat 37°31'24", long 122°30'15", in Corral de Tierra (Palomares) Grant, San Mateo County, 0.2 mi (0.3 km) upstream from State Highway 1, 0.5 mi (0.8 km) southeast of town of Moss Beach.	1.60	1977	7-8-77 8-29-77 9-13-77	0 0 0
		San Pedro Creek basin				
11162655	San Pedro Creek at Pacifica, CA	Lat 37°35'30", long 122°30'07", in San Pedro (Sanchez) Grant, San Mateo County, at Pacifica, 0.3 mi (0.5 km) upstream from State Highway 1, 0.4 mi (0.6 km) upstream from mouth.	7.08	1977a	7-8-77 8-29-77 9-13-77	b 0.81 b .52 b .49
		Alameda Creek basin				
11174200	Alameda Creek at Sunol, CA	Lat 37°35'15", long 121°53'21" in Valle de San Jose Grant, Alameda County, on left bank 50 ft (15 m) upstream from road ford, 600 ft (183 m) upstream from Arroyo de la Laguna, and 0.6 mi (1.0 km) south of Sunol.	198 (corrected)	1975-76c, 1977	2-9-77	0
11174600	Alamo Canal near Pleasanton, CA	Lat 37°41'10", long 121°54'54", in Santa Rita Grant, Alameda County, on right bank 30 ft (9 m) upstream from VCSD wasteway, 0.7 mi (1.1 km) upstream from Arroyo Mocho, 3 mi (5 km) northwest of Pleasanton.	--	1975-76c, 1977a	11-16-76 5-18-77 6-1-77 6-23-77 6-23-77 9-21-77	1.25 .18 .47 .36 .20 .37

See footnotes at end of this table.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Alameda Creek basin--Continued				
11176150	Arroyo Las Positas near Livermore, CA	Lat 37°41'52", long 121°48'15", in Valle de San Jose Grant, Alameda County, on right bank, 15 ft (5 m) upstream from Kitty Hawk Road, 800 ft (244 m) upstream from Collier Creek, and 2.3 mi (3.7 km) northwest of Livermore.	64.6	1912-19‡, 1921-30‡, 1975-76c, 1977a	2-8-77 9-21-77	2.21 0
11177200	Vallecitos Creek at Sunol, CA	Lat 37°35'42", long 121°52'51", in Valle de San Jose Grant, Alameda County, 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	1975-76c, 1977d	10-20-76 2-2-77 5-18-77 9-20-77	22.4 .79 24.3 24.7
11177300	Sinbad Creek at Sunol, CA	Lat 37°35'41", long 121°53'07", in Valle de San Jose Grant, Alameda County, on left bank at culvert on Western Pacific Railroad in Sunol, 900 ft (274 m) upstream from mouth.	6.50	1975-76c, 1977	2-9-77	0
11178400	Stonybrook Creek near Niles, CA	Lat 37°35'54", long 126°56'51", in SE¼ sec.11, T.4 S., R.1 W., Alameda County, on right bank at culvert on State Highway 84, 50 ft (15 m) upstream from mouth, and 2.5 mi (4.0 km) north of Niles.	6.89	1975-76c, 1977	1-3-77 2-9-72	0 0
		Napa River basin				
11455860	Napa River at Greenwood Avenue, near Calistoga, CA	Lat 38°35'22", long 122°35'48" in Carne Humana Grant, Napa County, on left bank at culvert on Greenwood Avenue, 1.2 mi (1.9 km) northwest of Calistoga.	5.39	1976c, 1977a	12-30-76 1-2-77	b .21 b 1.4
*11455880	Garnett Creek near Calistoga, CA	Lat 38°35'36", long 122°35'26", in Carne Humana Grant, Napa County, on right bank at upstream side of bridge on Greenwood Avenue, 0.6 mi (1.0 km) upstream from mouth, 1.2 mi (1.9 km) northwest of Calistoga.	7.66	1976c, 1977a	12-30-76 1-2-77	b .04 b .72
		Redwood Creek basin				
11460150	Redwood Creek near Tamalpais Valley, CA	Lat 37°52'30", long 122°34'55", Marin County, in Mount Tamalpais Game Refuge, at culvert on Frank Valley road, 2.5 mi (4.0 km) southeast of Mill Valley, and 3.0 mi (4.8 km) west of Tamalpais Valley.	6.38	1962-73e, 1976-77	8-10-76 8-31-76 11-2-76 12-6-76	bf 0.04 bf .05 b .01 b .15
		Bolinas Lagoon basin				
11460160	Morses Creek at Bolinas, CA	Lat 37°55'09", long 122°40'09", in Las Baulines Grant, Marin County, at mouth, 7 ft (2 m) upstream from culvert on State Highway 1, and 1.0 mi (1.6 km) northeast of Bolinas.	0.70	1967-69‡, 1976-77	8-10-76 8-31-76 11-2-76 12-6-76	f 0 f 0 0 0
11460165	Audubon Creek near Bolinas, CA	Lat 37°55'47", long 122°40'50", in Las Baulines Grant, Marin County, at mouth 1.5 mi (2.4 km) north of Bolinas.	0.46	1968-69e, 1976-77	8-10-76 8-31-76 11-2-76 12-6-76	f 0 f 0 0 0
		Pine Creek basin				
11460170	Pine Creek at Bolinas, CA	Lat 37°35'07", long 122°41'31", in Las Baulines Grant, Marin County, 100 ft (30 m) upstream from highway bridge, 0.4 mi (0.6 km) upstream from mouth, and 0.9 mi (1.4 km) north of Bolinas.	7.83	1967-70‡, 1976-77	8-10-76 8-31-76 11-2-76	bf 0.10 bf .12 b .17
		Lagunitas Creek basin				
11460610	Olema Creek at Olema, CA	Lat 38°02'25", long 122°47'16", in Tomales y Baulines (Garcia) Grant, Marin County, in town of Olema, 300 ft (91 m) west of intersection of State Highway 1 and Sir Francis Drake Highway.	12.5	1976-77a	8-10-76 8-31-76 11-2-76 7-18-77 8-10-77 9-12-77	bf 0.34 bf .23 b .19 b .08 b .13 b .16

See footnotes at end of this table.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Walker Creek basin				
11460700	Arroyo Sausal near Marshall, CA	Lat 38°09'30", long 122°46'55", in Soulajule (Bracket) Grant, Marin County, 0.3 mi (0.5 km) upstream from confluence with Salmon Creek, and 6.1 mi (9.8 km) east of Marshall.	19.2	1959-60‡, 1976-77	8-10-76 8-31-76 11-2-76	f 0 f 0 0
		Estero de San Antonio basin				
11460850	Stemple Creek near Fallon, CA	Lat 38°16'14", long 122°54'04", in sec. 13, T.5 N., R.10 W., Marin County, at bridge on State Highway 1, 700 ft (213 m) upstream from mouth, 0.3 mi (0.5 km) southeast of Fallon, and 3.7 mi (6.0 km) northeast of Dillon Beach.	38.6	1976-77	8-10-76 8-31-76 11-2-76	f 0 f 0 0
		Estero Americano basin				
11460880	Americano Creek near Valley Ford, CA	Lat 38°18'49", long 122°53'47", in Blucher Grant, Marin County, at bridge on State Highway 1, 1.5 mi (2.4 km) southeast of Valley Ford.	15.6	1976-77	8-10-76 8-31-76 11-2-76	f 0 f 0 0
		Salmon Creek basin				
11460920	Salmon Creek at Bodega, CA	Lat 38°20'54", long 122°58'45", in Estero Americano Grant, Sonoma County, 100 ft (30 m) upstream from private road bridge, 0.3 mi (0.5 km) upstream from small left-bank tributary, and 0.4 mi (0.6 km) northwest of Bodega.	15.7	1962-75‡, 1976-77	8-10-76 8-31-76 11-2-76	f 0 f 0 b .37
		Scotty Creek basin				
11460925	Scotty Creek near Bodega, CA	Lat 38"23'08", long 123°04'54", in Bodega Grant, Sonoma County, at bridge on State Highway 1, 1.0 mi (1.6 km) southeast of Ocean View School and 4.1 mi (6.6 km) northeast of town of Bodega Bay.	4.18	1976-77	8-10-76 8-31-76 11-2-76	f 0 f 0 0
		Russian River basin				
11467200	Austin Creek at Cazadero, CA	Lat 38°30'05", long 123°04'05", Sonoma County, 0.6 mi (1.0 km) downstream from confluence of Big Austin and East Austin Creeks, 2.3 mi (3.7 km) southeast of Cazadero, and 3.4 mi (5.5 km) upstream from mouth.	63.1	1959-66‡, 1976-77	8-11-76 8-31-76 11-2-76 12-6-76 7-18-77 8-15-77 9-12-77	f 0 f 0 0 0 0 0 0
11467220	Willow Creek near Jenner, CA	Lat 38°26'25", long 123°05'41", in Bodega Grant, Sonoma County, 100 ft (30 m) upstream from county road bridge, 200 ft (61 m) upstream from mouth, and 1.3 mi (2.1 km) southeast of Jenner.	8.56	1976-77	8-11-76 8-31-76 11-2-76	f 0 f 0 0
		Russian Gulch basin				
11467225	Russian Gulch near Jenner, CA	Lat 38°28'16", long 123°09'09", in Muniz Grant, Sonoma County, 100 ft (30 m) upstream from bridge on State Highway 1, 0.3 mi (0.5 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Jenner.	11.2	1976-77	8-11-76 8-31-76 11-2-76 12-6-76	f 0 f 0 0 0
		Fort Ross Creek basin				
11467230	Fort Ross Creek at Fort Ross, CA	Lat 38°31'04", long 123°14'26", in Muniz Grant, Sonoma County, 100 ft (30 m) upstream from culvert on State Highway 1, 0.2 mi (0.3 km) northeast of Fort Ross.	1.52	1976-77a	8-11-76 8-31-76 11-2-76 12-6-76 7-19-77 8-15-77 9-12-77	bf 0.06 bf .06 b .05 b .10 b .02 b .006 b .005
		Gualala River basin				
11467280	South Fork Gualala River near Fort Ross, CA	Lat 38°36'15", long 123°17'11", unsurveyed, Sonoma County, 250 ft (76 m) downstream from Houser Bridge, 0.3 mi (0.5 km) downstream from Sproule Creek, and 6.5 mi (10.5 km) northwest of Fort Ross.	33.0	1976-77	8-11-76 8-31-76 11-2-76 7-19-77 8-15-77 9-12-77	bf 0.64 bf 1.16 b .71 b .10 0 0

See footnotes at end of this table.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Gualala River basin--Contiued				
11467290	South Fork Gualala River near Stewarts Point, CA	Lat 38°39'08", long 123°21'47", unsurveyed, Sonoma County, 200 ft (61 m) upstream from Stewarts Point road bridge, 1.9 mi (3.1 km) east of Stewarts Point.	42.8	1976-77	8-11-76 8-31-76 11-2-76 7-19-77 8-15-77 9-12-77	bf 0.64 bf 1.25 b .85 0 0 0
11467490	Wheatfield Fork Gualala River near Annapolis, CA	Lat 38°42'04", long 123°24'42", unsurveyed, Sonoma County, 400 ft (122 m) upstream from mouth, 2.8 mi (4.5 km) southwest of Annapolis.	112	1976-77	8-11-76 8-31-76 11-2-76 7-19-77 8-15-77 9-12-77	bf 0.40 bf 3.63 b 2.87 0 0 0
11467500	South Fork Gualala River near Annapolis, CA	Lat 38°42'14", long 123°25'13", in German Grant, Sonoma County, 2,700 ft (823 m) downstream from Wheatfield Fork Gualala River and 3.1 mi (5.0 km) southwest of Annapolis.	161	1951-71‡, 1976-77	8-11-76 8-31-76 11-2-76 12-6-76 7-19-77 8-15-77 9-12-77	bf 0.37 bf 2.65 b 1.13 b 5.32 0 0 0
11467555	North Fork Gualala River at mouth, near Gualala, CA	Lat 38°46'47", long 123°29'56", in SE¼SE¼ sec.23, T.11 N., R.15 W., Mendocino County, 500 ft (152 m) upstream from confluence with South Fork Gualala River, 1.8 mi (2.9 km) northeast of town of Gualala.	48.0	1976-77a	8-12-76 9-1-76 11-2-76 7-19-77 8-15-77 9-12-77	bf 6.22 bf 7.35 b 3.98 b 2.25 b 1.77 b 1.58
		Alder Creek basin				
11467655	Alder Creek at State Highway 1, near Manchester, CA	Lat 38°59'56", long 123°41'17", in SE¼ sec.12, T.13 N., R.17 W., Mendocino County, at bridge on State Highway 1, 2.0 mi (3.2 km) north of Manchester.	28.1	1976-77	8-12-76 9-1-76 11-2-76	f 0 bf .17 0
		Elk Creek basin				
11467710	Elk Creek at State Highway 1, near Elk, CA	Lat 39°06'08", long 123°42'02", in SW¼SW¼ sec.1, T.14 N., R.17 W., Mendocino County, at bridge on State Highway 1, 0.4 mi (0.6 km) upstream from mouth, 2 mi (3 km) southeast of town of Elk.	27.3	1976-77a	8-12-76 9-1-76 11-2-76 7-21-77 8-15-77 9-12-77	bf 3.93 bf 4.18 b 3.46 b 1.48 b 1.26 b 1.37
		Greenwood Creek basin				
11467750	Greenwood Creek at Elk, CA	Lat 39°07'41", long 123°42'32", in SW¼SE¼ sec.26, T.15 N., R.17 W., Mendocino County, 800 ft (244 m) upstream from State Highway 1, 0.4 mi (0.6 km) southeast of Elk, and 0.5 mi (0.8 km) upstream from mouth.	24.3	1951-56, 1961, 1976-77a	8-12-76 9-1-76 11-3-76 7-21-77 8-15-77 9-12-77	bf 0.72 bf .82 b .56 b .20 b .13 b .14
		Navarro River basin				
11467800	Rancheria Creek near Boonville, CA	Lat 38°59'35", long 123°26'00", in SE¼ sec.7, T.13 N., R.14 W., Mendocino County, at county road bridge, 100 ft (30 m) downstream from Minnie Creek, and 3.7 mi (6.0 km) west of Boonville.	65.6	1959-68‡, 1976-77	8-13-76 8-30-76 11-2-76 7-20-77	bf 1.67 bf 1.68 b 1.77 0
11467900	Navarro River above North Fork, near Navarro, CA	Lat 39°09'20", long 123°38'17", in SW¼SW¼ sec.16, T.15 N., R.16 W., Mendocino County, 350 ft (107 m) upstream from North Fork, and 5.1 mi (8.2 km) west of Navarro.	223	1976-77a	8-12-76 9-1-76 11-2-76 7-20-77 8-11-77 9-12-77	bf 1.30 bf 3.28 b 5.42 0 0 0
11467990	North Fork Navarro River near Navarro, CA	Lat 39°09'24", long 123°38'15", in NW¼SW¼ sec.16, T.15 N., R.16 W., Mendocino County, 200 ft (61 m) upstream from mouth and 5.1 mi (8.2 km) west of Navarro.	73.6	1976-77a	8-12-76 9-1-76 11-2-76 7-20-77 8-11-77 9-12-77	bf 1.89 bf 2.79 b 2.92 b .52 b .35 b .42
		Albion River basin				
*11468010	Albion River near Comptche, CA	Lat 39°15'40", long 123°37'00", in SW¼ sec.11, T.16 N., R.16 W., Mendocino County, 2,000 ft (610 m) downstream from Morrison Gulch and 1.7 mi (2.7 km) west of Comptche.	14.4	1961-69‡, 1970-76e, 1977	8-13-76 8-31-76 11-2-76	bf 0.04 bf .03 b .02

See footnotes at end of this table.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Big River basin				
11468070	South Fork Big River near Comptche, CA	Lat 39°13'47", long 123°27'53", in SW¼ sec.19, T.16 N., R.14 W., Mendocino County, 250 ft (76 m) downstream from Daugherty Creek and 7.2 mi (11.6 km) east of Comptche.	36.2	1960-71‡, 1976-77	8-13-76 8-31-76 11-2-76 7-20-77	bf 0.58 bf .76 b .72 0
11468100	Big River near Mendocino, CA	Lat 39°18'48", long 123°41'14", in NW¼NE¼ sec.30, T.17 N., R.16 W., Mendocino County, at road ford, 1.6 mi (2.6 km) upstream from Little North Fork Big River, and 5.9 mi (9.5 km) east of Mendocino.	151	1951-55, 1956e, 1976-77a	8-13-76 8-31-76 11-2-76 7-21-77 8-16-77 9-12-77	bf 5.59 bf 7.35 b 5.62 b 1.13 b .72 b .29
		Pudding Creek basin				
11468540	Pudding Creek near Fort Bragg, CA	Lat 39°27'25", long 123°43'20", in NE¼NW¼ sec.2, T.18 N., R.17 W., Mendocino County, at old town site of Glenblair, 0.7 mi (1.1 km) downstream from Little Valley Creek, and 4.5 mi (7.2 km) east of Fort Bragg.	12.5	1964-71‡, 1976-77	8-13-76 8-30-76 11-3-76	bf 0.06 bf .18 b .14
		Tenmile River basin				
11468600	Middle Fork Tenmile River near Fort Bragg, CA	Lat 39°34'22", long 123°41'57" in NE¼NE¼ sec.25, T.20 N., R.17 W., Mendocino County, 0.8 mi (1.3 km) upstream from confluence with North Fork Tenmile River, and 10 mi (16 km) northeast of Fort Bragg.	32.9	1951-56, 1961, 1964-73‡, 1976-77a	8-13-76 8-31-76 11-3-76 7-20-77 8-16-77 9-13-77	bf 3.50 bf 3.45 b 3.29 b .95 b .89 b .74
11468650	North Fork Tenmile River near Fort Bragg, CA	Lat 39°34'24", long 123°42'26", in NE¼NW¼ sec.25, T.20 N., R.17 W., Mendocino County, 800 ft (244 m) upstream from confluence with Middle Fork Tenmile River, and 10.2 mi (16.4 km) northeast of Fort Bragg.	39.1	1951-57, 1961, 1976-77a	8-13-76 8-31-76 11-3-76 7-20-77 8-16-77 9-13-77	bf 5.18 bf 5.70 b 4.24 b 1.22 b 1.47 b 1.51
11468710	South Fork Tenmile River at mouth, near Fort Bragg, CA	Lat 39°32'06", long 123°44'49", in SW¼SW¼ sec.3, T.19 N., R.17 W., Mendocino County, 3,000 ft (914 m) upstream from mouth and 6.8 mi (10.9 km) northeast of Fort Bragg.	38.7	1976-77a	8-13-76 8-31-76 11-3-76 7-20-77 8-16-77 9-13-77	bf 1.31 bf 1.70 b 1.48 b .45 b .44 b .39
		Mattole River basin				
11468875	Mattole River at Thorn, CA	Lat 40°01'06", long 123°56'12", in NW¼SW¼ sec.15, T.5 S., R.2 E., Humboldt County, 0.3 mi (0.5 km) downstream from Stanley Creek, 0.3 mi (0.5 km) southeast of Thorn.	12.8	1977	8-11-77 8-31-77 9-29-77	b 0.06 b .07 b 17.5
		Bear River basin				
11469550	Bear River at Capetown, CA	Lat 40°28'00", long 124°21'56" in NW¼SW¼ sec.13, T.1 N., R.3 W., Humboldt County, at bridge at Capetown.	81.2	1951-56, 1977	7-13-77 9-13-77 9-22-77	b 13.3 b 6.65 b 38.1
		Eel River basin				
11471800	Tomki Creek near Willits, CA	Lat 39°25'10", long 123°13'40", in NE¼ sec.18, T.18 N., R.12 W., Mendocino County, 500 ft (152 m) upstream from Halfmile Creek, 5.8 mi (9.3 km) upstream from mouth, and 6.8 mi (10.9 km) east of Willits.	43.4	1963-70‡, 1977	7-27-77	0
*11472700	Hammerhorn Creek near Covelo, CA	Lat 39°56'42", long 122°59'50", in SW¼SW¼ sec.8, T.24 N., R.10 W., Mendocino County, Mendocino National Forest, at culvert on Six Rivers-Clear Lake Road, 17 mi (27 km) northeast of Covelo.	3.36	1969-77,	9-29-77	b 5.1
11472800	Middle Fork Eel River above Black Butte River, near Covelo, CA	Lat 39°49'45", long 123°04'11", in SE¼SW¼ sec.22, T.23 N., R.11 W., Mendocino County, 1.2 mi (1.9 km) upstream from Black Butte River and 9.8 mi (15.8 km) northeast of Covelo.	204	1968-70‡, 1977a	7-28-77 8-24-77 9-29-77	b 3.03 b 1.04 b 188

See footnotes at end of this table.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Eel River basin--Continued				
11472900	Black Butte River near Covelo, CA	Lat 39°49'15", long 123°04'50", in SE¼ sec.28, T.23 N., R.11 W., Mendocino County, 10 ft (3 m) upstream from highway bridge, 0.5 mi (0.8 km) upstream from mouth, and 9.5 mi (15.3 km) east of Covelo.	162	1951-56, 1954-57e, 1959-75‡, 1977a	7-28-77 8-24-77 9-29-77	b 1.2 b .11 b 9.47
11473100	Williams Creek near Covelo, CA	Lat 39°49'30", long 123°08'25", in SW¼NE¼ sec.25, T.23 N., R.12 W., Mendocino County, 1.0 mi (1.6 km) upstream from mouth and 6.1 mi (9.8 km) northeast of Covelo.	30.4	1962-69‡, 1977	7-28-77 8-24-77	b 0.12 0
11473600	Short Creek near Covelo, CA	Lat 39°49'50", long 123°10'56", in NE¼ sec.27, T.23 N., R.12 W., Mendocino County, 0.4 mi (0.6 km) downstream from small right-bank tributary, 0.7 mi (1.1 km) upstream from wooden bridge, and 4.5 mi (7.2 km) northeast of Covelo.	15.2	1959-69‡, 1977	7-28-77 8-24-77 9-29-77	0 0 b .01
11473700	Mill Creek near Covelo, CA	Lat 39°44'57", long 123°10'48", in NW¼SE¼ sec.22, T.22 N., R.12 W., Mendocino County, at county road bridge, 0.9 mi (1.4 km) downstream from Turner Creek, and 4.6 mi (7.4 km) southeast of Covelo.	95.6	1956-71‡, 1977	8-25-77	0
11474400	Hulls Creek near Covelo, CA	Lat 39°54'50", long 123°14'55", in sec.25, T.24 N., R.13 W, at highway bridge, 6.8 mi (10.9 km) southeast of Mina, and 8.3 mi (13.4 km) north of Covelo.	25.9	1962-64‡, 1977	7-29-77 8-25-77	b 0.01 0
11474500	North Fork Eel River near Mina, CA	Lat 39°56'18", long 123°20'36", in SW¼ sec.8, T.24 N., R.13 W., Mendocino County, 0.2 mi (0.3 km) upstream from county road bridge, 1.4 mi (2.3 km) upstream from Asbill Creek, and 2 mi (3 km) south of Mina.	248	1953-76‡, 1977a	7-29-77 8-25-77 9-29-77	b 0.47 b .22 b 173
11474700	Chamise Creek near Island Mountain, CA	Lat 40°02'14", long 123°33'10", in NW¼SW¼ sec.7, T.5 S., R.6 E., Humboldt County, at county road bridge, at Dry Creek, 3.2 mi (5.1 km) northwest of Island Mountain, and 3.8 mi (6.1 km) upstream from mouth.	22.6	1973-76‡, 1977	7-26-77	b 0.23
11475095	Casterlin Spring near Fort Seward, CA	Lat 40°14'32", long 123°37'21", in SE¼SW¼ sec.33, T.2 S., R.5 E., Humboldt County, 1.9 mi (3.1 km) northeast of Fort Seward.	--	1977	8-11-77	0
11475100	Dobbyn Creek near Fort Seward, CA	Lat 40°14'14", long 123°38'05", in NW¼NE¼ sec.5, T.3 S., R.5 E., Humboldt County, at county road bridge, 0.2 mi (0.3 km) upstream from Conley Creek, 1.2 mi (1.9 km) northeast of Fort Seward, and 1.6 mi (2.6 km) upstream from mouth.	61.4	1973-76‡, 1977a	7-26-77 8-23-77 9-20-77	b 4.40 b 3.56 b 21.4
11475250	Eel River at South Fork, CA	Lat 40°21'04", long 123°54'48", in SE¼NE¼ sec.2, T.1 S., R.2 E., Humboldt County, 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.	2,266	1977d	7-14-77 8-3-77 8-22-77 9-14-77	b 20.9 b 11.0 b .62 b .39
11475500	South Fork Eel River near Branscomb, CA	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.	43.9	1946-70‡, 1972-76e, 1977a	7-27-77 8-24-77	b 0.86 b .45
11475700	Tenmile Creek near Laytonville, CA	Lat 39°45'45", long 123°32'30", in NW¼ sec.16, T.22 N., R.15 W., Mendocino County, 0.1 mi (0.2 km) downstream from Step Gulch Creek and 6.0 mi (9.7 km) northwest of Laytonville.	50.3	1957-74‡, 1975-76e, 1977	8-23-77	0

See footnotes at end of this table.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Eel River basin--Continued				
11475940	East Branch South Fork Eel River near Garberville, CA	Lat 40°04'27", long 123°46'08", in SE¼NE¼ sec.31, T.4 S., R.4 E., Humboldt County, just upstream from Panther Canyon, 1.9 mi (3.1 km) upstream from mouth, and 2.3 mi (3.7 km) southeast of Garberville.	74.3	1957-72‡, 1977a	7-27-77 8-23-77 9-19-77	b 1.77 b .95 b 18.8
11476620	South Fork Eel River at Dyerville, CA	Lat 40°21'17", long 123°55'21", in NE¼NW¼ sec.26, T.1 S., R.2 E., Humboldt County, at Dyerville, 500 ft (152 m) upstream from mouth, and 0.7 mi (1.1 km) northwest of town of South Fork.	689	1977	7-14-77 8-22-77 9-14-77	b 21.6 b 10.2 b 9.87
11476700	Larabee Creek near Holmes, CA	Lat 40°24'30", long 123°54'00", in SW¼ sec.1, T.1 S., R.2 E., Humboldt County, 50 ft (15 m) downstream from Balcom Creek, 2.8 mi (4.5 km) upstream from mouth, and 2.8 mi (4.5 km) east of Holmes.	84.1	1959-65‡, 1977a	7-25-77 9-12-77 9-27-77	b 4.78 b 3.48 b 9.40
11477700	Little Van Duzen River near Bridgeville, CA (formerly published as South Fork Van Duzen River near Bridgeville)	Lat 40°26'40", long 123°39'15", in SE¼ sec.19, T.1 N., R.5 E., Humboldt County, 0.2 mi (0.3 km) upstream from Butte Creek, 3 mi (5 km) upstream from mouth, and 7.8 mi (12.6 km) east of Bridgeville.	36.2	1951-58, 1954-57e, 1958-67‡, 1977a	7-21-77 8-15-77 9-12-77	b 4.60 b 2.29 b 2.21
11479000	Yager Creek near Carlotta, CA	Lat 40°34'15", long 124°02'55", in SW¼NE¼ sec.10, T.2 N., R.1 E., Humboldt County, 0.8 mi (1.3 km) upstream from Cooper Mill Creek, and 2.4 mi (3.9 km) north of Carlotta.	127	1953-60‡, 1965-72‡, 1977a	7-21-77 9-10-77 9-14-77	b 5.08 b 3.02 b 2.04
11479560	Eel River at Fernbridge, CA	Lat 40°36'57", long 124°12'06", in SW¼NE¼ sec.29, T.3 N., R.1 W., Humboldt County, just downstream from bridge on county road at Fernbridge.	3,614	1977	7-22-77 8-22-77 9-27-77	b 49.9 b .93 b 224
		Elk River basin				
11479700	Elk River near Falk, CA	Lat 40°42'10", long 124°09'20", in NW¼ sec.26, T.4 N., R.1 W., 500 ft (152 m) downstream from Clapp Gulch, 1,300 ft (396 m) downstream from confluence of North and South Forks, 2 mi (3 km) northwest of Falk, and 5 mi (8 km) south of Eureka.	44.2	1958-67‡, 1977a	8-16-77 9-2-77	b 1.28 b .93
		Freshwater Creek basin				
11479800	Freshwater Creek at Freshwater, CA	Lat 40°45'23", long 124°02'56", in NW¼SE¼ sec.3, T.4 N., R.1 E., Humboldt County, at downstream outlet of lake in Freshwater Park, 0.7 mi (1.1 km) southeast of town of Freshwater.	16.0	1977	7-12-77 8-11-77 9-21-77	b 1.16 b .16 b 1.12
		Jacoby Creek basin				
11480000	Jacoby Creek near Freshwater, CA	Lat 40°47'30", long 124°00'10", in NW¼ sec.30, T.5 N., R.2 E., Humboldt County, 3.7 mi (6.0 km) northeast of Freshwater.	6.05	1954-64‡, 1966-72e, 1974e, 1977a	7-12-77 9-8-77 9-20-77	b 2.07 b 5.41 b 1.37
		Mad River basin				
11480390	Mad River above Ruth Reservoir, near Forest Glen, CA	Lat 40°18'51", long 123°21'44", in NW¼NW¼ sec.11, T.2 S., R.7 E., Trinity County, Six Rivers National Forest, at bridge on Zenia road, 0.5 mi (0.8 km) southeast of Ruth, and 4.6 mi (7.4 km) southwest of Forest Glen.	103	1971-73, 1977a	6-23-77 8-10-77 9-7-77 9-27-77	b 3.34 b .58 b .38 b. 53
11480410	Mad River below Ruth Reservoir, near Forest Glen, CA	Lat 40°22'16", long 123°26'06", in SW¼SW¼ sec.18, T.1 N., R.7 E., Trinity County, Six Rivers National Forest, 1,200 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.	121 (revised)	1971-72, 1977a	8-10-77 9-7-77 9-27-77	b 71.2 b 66.6 b 47.3

See footnotes at end of this table.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Mad River basin--Continued				
11480700	Maple Creek near Blue Lake, CA	Lat 40°46'53", long 123°52'38", in SE¼ sec.30, T.5 N., R.3 E., Humboldt County, at bridge on Kneeland-Korbel road, 6.3 mi (10.1 km) east of Kneeland, and 9.2 mi (14.8 km) southeast of town of Blue Lake.	12.1	1962-73e, 1977	7-12-77 8-11-77	b 3.03 b 1.62
11480750	Mad River near Kneeland, CA	Lat 40°45'50", long 123°53'20" in NW¼NW¼ sec.6, T.4 N., R.3 E., Humboldt County, at mouth of Maple Creek, 30 ft (9 m) upstream from bridge, and 5.4 mi (8.7 km) east of Kneeland.	351 (revised)	1966-74‡, 1977a	7-12-77 8-11-77 9-13-77	b 67.4 b 74.7 b 63.7
11480780	Mad River near Blue Lake, CA	Lat 40°50'47", long 123°58'54" in NW¼ sec.5, T.5 N., R.2 E., Humboldt County, 0.3 mi (0.5 km) upstream from small left-bank tributary, and 2.4 mi (3.9 km) south of town of Blue Lake.	393	1973-76‡, 1977a	4-25-77 5-2-77 6-6-77 6-21-77 6-27-77 7-15-77 8-11-77 9-2-77 9-13-77	b 99.3 b 145 b 113 b 58.7 b 68.1 b 80.3 b 73.4 b 77.4 b 67.6
11480790	Mad River at Blue Lake, CA	Lat 40°52'30", long 123°59'26", in NW¼SE¼ sec.30, T.6 N., R.2 E., Humboldt County, 400 ft (122 m) upstream from North Fork Mad River, 0.5 mi (0.8 km) south of town of Blue Lake.	397	1977	4-25-77 5-2-77 6-6-77 6-21-77 6-27-77 9-2-77	b 93.7 b 131 b 101 b 50.8 b 60.1 b 64.0
11480820	North Fork Mad River at Korbel, CA	Lat 40°52'12", long 123°57'35" in SE¼SW¼ sec.28, T.6 N., R.2 E., Humboldt County, at Korbel, 100 ft (30 m) downstream from bridge, 200 ft (61 m) upstream from Sullivan Gulch.	44.4	1977a	6-21-77 6-27-77 8-26-77 9-2-77 9-21-77	b 8.03 b 6.10 b 2.16 b 2.30 b 4.94
11480830	North Fork Mad River at Blue Lake, CA	Lat 40°52'34", long 123°59'24", in NW¼SE¼ sec.30, T.6 N., R.2 E., Humboldt County, 400 ft (122 m) upstream from bridge, 0.4 mi (0.6 km) south of town of Blue Lake.	49.0	1977	4-25-77 5-2-77 6-6-77 6-21-77 6-27-77 9-2-77	b 3.84 b 17.9 b 5.96 b 1.99 b 1.39 b 7.99
11480900	Mad River at Gendale, CA	Lat 40°54'08", long 124°01'51", in NW¼SE¼ sec.14, T.6 N., R.1E., Humboldt County, 0.1 mi (0.2 km) downstream from Lindsay Creek, 0.8 mi (1.3 km) west of Glendale, and 3.6 mi (5.8 km) northeast of Arcata.	481	1977	4-25-77 5-2-77 6-6-77 6-21-77 6-27-77 9-2-77	b 136 b 204 b 142 b 75.7 b 91.0 b 73.7
11481010	Mad River below U.S. Highway 299, near Arcata, CA	Lat 40°54'44", long 124°04'13", in NW¼NE¼ sec.16, T.6 N., R.1 E., Humboldt County, 0.7 mi (1.1 km) downstream from bridge on U.S. Highway 299, 3.1 mi (5.0 km) north of Arcata.	485	1977	5-2-77 6-6-77 6-21-77 6-27-77 9-2-77	b 131 b 62.8 b 8.08 b 12.9 b 13.9
11481020	Mad River below U.S. Highway 101, near Arcata, CA	Lat 40°54'57", long 124°05'42", in SW¼SW¼ sec.8, T.6 N., R.1 E., Humboldt County, 900 ft (274 m) downstream from bridge on U.S. Highway 101, 3.3 mi (5.3 km) northwest of Arcata.	487	1977	5-2-77 6-6-77 6-21-77 6-27-77 9-2-77	b 129 b 64.4 b 8.23 b 26.4 b 12.4
		Klamath River basin				
11512000	Fall Creek at Copco, CA	Lat 41°58'31", long 122°21'49", in NE¼ sec.36, T.48 N., R.5 W., Siskiyou County, 1,500 ft (457 m) upstream from mouth and 0.8 mi (1.3 km) south of Fall Creek powerplant and Copco Post Office.	14.6	1928-59‡, 1964-75c, 1976-77	6-2-77 8-3-77 9-1-77	b 33.1 b 34.2 b 33.3
11516528	Bogus Creek near Hornbrook, CA	Lat 41°55'43", long 122°26'24", in NE¼ sec.17, T.47 N., R.3 W., Siskiyou County, 0.5 mi (0.8 km) downstream from Iron Gate Dam and 6.0 mi (9.7 km) northeast of Hornbrook.	53.5	1965-75c, 1976-77	6-2-77 8-3-77 9-1-77	b 15.9 b 8.65 b 10.7
11516750	Shasta River near Edgewood, CA	Lat 41°28'21", long 122°26'21", in SE¼NE¼ sec.20, T.42 N., R.5 W., Siskiyou County, at county bridge 1.1 mi (1.8 km) northwest of Edgewood, and 4.2 mi (6.8 km) northwest of Weed.	70.3	1977g	5-31-77 8-3-77 9-6-77	b 17.0 b 8.43 b 9.92

See footnotes at end of this table.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Klamath River basin--Continued				
11517800	Beaver Creek near Klamath River, CA	Lat 41°53'42", long 122°49'21", in NE¼SW¼ sec.30, T.47 N., R.8 W., Siskiyou County, 1.9 mi (3.1 km) upstream from mouth and 14.8 mi (23.8 km) northwest of Yreka.	106	1953-58, 1959-65‡, 1967-75c, 1976-77	6-1-77 8-4-77 8-30-77	b 49.6 b 10.9 b 10.5
11518050	East Fork Scott River at Callahan, CA	Lat 41°18'15", long 122°46'32", in SE¼NW¼ sec.22, T.40 N., R.8 W., Siskiyou County, 1.0 mi (1.6 km) downstream from Big Mill Creek, and 1.4 mi (2.3 km) east of Callahan.	110	1960-74‡, 1977	6-2-77 8-5-77 9-7-77	b 41.5 b 1.53 b 1.14
11518200	South Fork Scott River near Callahan, CA	Lat 41°17'45", long 122°48'32", in SW¼SE¼ sec.20, T.40 N., R.8 W., Siskiyou County, opposite unnamed tributary 1.1 mi (1.8 km) southwest of Callahan, and 1.5 mi (2.4 km) upstream from East Fork Scott River.	41.5	1958-60‡, 1964, 1966-75c, 1976-77	6-2-77 8-5-77 9-7-77	b 60.5 b 3.34 b 2.98
11520800	Thompson Creek near Happy Camp, CA	Lat 41°51'48", long 123°18'34", in SE¼ sec.17, T.17 N., R.8 E., Siskiyou County, 50 ft (15 m) upstream from highway bridge, 0.1 mi (0.2 km) upstream from mouth, and 6.0 mi (9.7 km) northeast of Happy Camp.	34.9	1968-75c, 1976-77	6-1-77 8-4-77 8-30-77	b 22.2 b 7.11 b 7.26
11522200	Elk Creek near Happy Camp, CA	Lat 41°44'36", long 123°21'16", in NW¼NE¼ sec.36, T.16 N., R.7 E., Siskiyou County, 0.1 mi (0.2 km) downstream from East Fork, 4.0 mi (6.4 km) upstream from mouth, and 4.0 mi (6.4 km) south of Happy Camp.	90.4	1956-64‡, 1967-75c, 1976-77	6-1-77 8-4-77 8-30-77	b 120 b 17.2 b 15.9
11522260	Ti Creek near Somes Bar, CA	Lat 41°31'30", long 123°31'35", unsurveyed, Siskiyou County, Klamath National Forest, at bridge on State Highway 96, 10.5 mi (16.9 km) north of Somes Bar.	9.46	1960-64‡, 1965-69e, 1977	8-4-77 8-30-77	b 2.81 b 3.10
*11522300	South Fork Salmon River near Forks of Salmon, CA	Lat 41°13'20", long 123°15'00", in SE¼ sec.30, T.39 N., R.12 W., Siskiyou County, 100 ft (30 m) downstream from Methodist Creek and 4.5 mi (7.2 km) southeast of town of Forks of Salmon.	252	1953-57, 1957-65‡, 1966-76e, 1977a	8-5-77 8-29-77	b 17.7 b 22.9
11522400	North Fork Salmon River near Forks of Salmon, CA	Lat 41°16'02", long 123°18'12" in NE¼ sec.18, T.10 N., R.8 E., Siskiyou County, 0.4 mi (0.6 km) downstream from Pollocks Gulch, 1.2 mi (1.9 km) upstream from Forks of Salmon, and 1.3 mi (2.1 km) upstream from mouth.	203	1958-64, 1965e, 1977a	8-5-77 8-29-77	b 18.2 b 22.0
11523030	Red Cap Creek near Orleans, CA	Lat 41°14'25", long 123°32'35", in SW¼ sec.19, T.10 N., R.6 E., Humboldt County, Six Rivers National Forest, 0.5 mi (0.8 km) downstream from Leary Creek, 4.4 mi (7.1 km) south of Orleans, and 4.9 mi (7.9 km) upstream from mouth.	56.1	1958-65‡, 1977a	8-5-77 8-30-77	b 12.0 b 9.52
11523050	Bluff Creek near Weitchpec, CA	Lat 41°14'25", long 123°39'25", in SW¼ sec.19, T.10 N., R.5 E., Humboldt County, Six Rivers National Forest, 0.8 mi (1.3 km) upstream from Aikens Creek, 1.2 mi (1.9 km) upstream from mouth, and 4.4 mi (7.1 km) northeast of Weitchpec.	74.6	1951-57, 1955-56e, 1958-65‡ 1977a	8-4-77 8-31-77	b 35.5 b 37.8
11523700	Coffee Creek near Trinity Center, CA	Lat 41°05',35", long 122°45'10", in NW¼SW¼ sec.2, T.37 N., R.8 W., Trinity County, 0.8 mi (1.3 km) upstream from Little Boulder Creek, 3.2 mi (5.1 km) upstream from mouth, and 8 mi (13 km) northwest of new location of Trinity Center.	107	1957-66‡, 1968-75c, 1976-77	6-3-77 8-5-77 9-8-77	b 158 b 21.0 b 18.5
11525520	Deadwood Creek at Lewiston, CA	Lat 40°43'02", long 122°48'04", in SW¼NW¼ sec.17, T.33 N., R.8 W., Trinity County, 300 ft (91 m) upstream from mouth and 0.7 mi (1.7 km) northeast of Lewiston.	9.10	1965-75, 1976-77	6-3-77 8-1-77 9-9-77	b 0.78 0 0

See footnotes at end of this table.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Klamath River basin--Continued				
11525800	Weaver Creek near Douglas City, CA	Lat 40°40'06", long 122°56'31", in NE¼SE¼ sec.36, T.33 N., R.10 W., Trinity County, 0.2 mi (0.3 km) downstream from highway bridge, and 1.3 mi (2.1 km) north of Douglas City.	48.4	1958-70‡, 1971c, 1977	6-3-77 8-1-77 9-9-77	b 5.57 b .07 0
11525900	Browns Creek near Douglas City, CA	Lat 40°38'35", long 122°58'45", in NE¼SW¼ sec.10, T.32 N., R.10 W., Trinity County, 2 mi (3 km) upstream from mouth, and 2.1 mi (3.4 km) west of Douglas City.	71.6	1957-67‡, 1970-71c, 1977	6-3-77 8-1-77 9-9-77	b 7.98 b .84 b .83
11527400	New River at Denny, CA	Lat 40°56'45", long 123°22'55", in NE¼ sec.33, T.7 N., R.7 E., Trinity County, Trinity National Forest, at private road bridge, 0.3 mi (0.5 km) northeast of Denny, and 0.5 mi (0.8 km) downstream from Quinby Creek.	173	1928-29‡, 1959-69‡, 1977a	8-3-77 9-9-77	b 17.4 b 15.1
11528400	Hayfork Creek near Hayfork, CA	Lat 40°31'10", long 123°05'05", in SW¼ sec.23, T.31 N., R.11 W., Trinity County, Trinity National Forest, 5.8 mi (9.3 km) southwest of Hayfork.	86.7	1956-65‡, 1966-72e, 1974-76e, 1977a	8-9-77 9-1-77	b 0.18 b .16
11528500	Hayfork Creek near Hyampom, CA	Lat 40°37'34", long 123°26'01", in SE¼NW¼ sec.19, T.3 N., R.7 E., Trinity County, Trinity National Forest, 1.2 mi (1.9 km) upstream from mouth, and 1.3 mi (2.1 km) northeast of Hyampom.	378	1953-74‡, 1977a	8-9-77 9-1-77	b 6.09 b 5.93
11529000	South Fork Trinity River near Salyer, CA	Lat 40°50'30", long 123°34'00", in SE¼ sec.1, T.5 N., R.5 E., Humboldt County, Six Rivers National Forest, 4 mi (6 km) south of Salyer, and 8 mi (13 km) upstream from mouth.	898	1912-13‡, 1951-67‡, 1977a	8-2-77 9-2-77	b 32.3 b 35.0
11529800	Willow Creek near Willow Creek, CA	Lat 40°56'50", long 123°39'35", in SE¼SW¼ sec.30, T.7 N., R.5 E., Humboldt County, 0.1 mi (0.2 km) upstream from Boise Creek, 1.5 mi (2.4 km) northwest of town of Willow Creek, and 1.8 mi (2.9 km) upstream from mouth.	41.0	1959-74‡, 1977a	8-2-77 9-2-77	b 8.55 b 7.68
		Wilson Creek basin				
11530620	Wilson Creek at U.S. Highway 101, near Klamath, CA	Lat 41°36'17", long 124°05'59", in sec.18, T.14 N., R.1 E., Del Norte County, at Louis P. DeMartin, Sr. Memorial Bridge on U.S. Highway 101, 400 ft (122 m) upstream from mouth, and 6.3 mi (10.1 km) northwest of Klamath.	13.2	1977	7-20-77 8-16-77	b 1.16 0
		Lake Earl basin				
11530680	Jordan Creek near Crescent City, CA	Lat 41°47'44", long 124°09'00", in SE¼NW¼ sec.11, T.16 N., R.1 W., Del Norte County, at bridge on U.S. Highway 199 and 3.8 mi (6.1 km) northeast of Crescent City.	2.06	1977	7-20-77 8-17-77	b 0.41 b .41
11530720	Yonkers Creek near Crescent City, CA	Lat 41°49'48", long 124°09'53", in SE¼ sec.27, T.17 N., R.1 W., Del Norte County, at bridge on Lake Earl Drive, 5.6 mi (9.0 km) northeast of Crescent City.	1.39	1977	7-20-77 8-17-77	b 0.08 b .03
		Smith River basin				
11530870	Siskiyou Fork near Gasquet, CA	Lat 41°52'37", long 123°48'09", in SE¼SW¼ sec.11, T.17 N., R.3 E., Del Norte County, Six Rivers National Forest, 400 ft (122 m) downstream from bridge, 0.7 mi (1.1 km) upstream from mouth, 8.7 mi (14.0 km) northeast of Gasquet.	26.9	1977	6-29-77 8-16-77	b 16.3 b 8.94
11530920	Patrick Creek near Gasquet, CA	Lat 41°52'51", long 123°51'09", in NE¼SE¼ sec.8, T.17 N., R.3 E., Del Norte County, Six Rivers National Forest, 0.5 mi (0.8 km) downstream from Twelvemile Creek, 0.8 mi (1.3 km) upstream from mouth, and 6.4 mi (10.3 km) northeast of Gasquet.	22.0	1977	6-29-77 8-16-77	b 16.9 b 8.90

See footnotes at end of this table.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name		Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		Smith River basin--Continued				
11531000	Middle Fork Smith River at Gasquet, CA	Lat 41°50'51", long 123°57'59", in NE¼SE¼ sec.20, T.17 N., R.2 E., Del Norte County, Six Rivers National Forest, at bridge, at Gasquet, 0.1 mi (0.2 km) upstream from confluence with North Fork Smith River.	131	1911-18‡, 1952-57, 1954-56e, 1958-65‡, 1977	7-13-77	b 65.5
11531500	North Fork Smith River at Gasquet, CA	Lat 41°51'17", long 123°58'09", in NW¼NE¼ sec.20, T.17 N., R.2 E., Del Norte County, Six Rivers National Forest, 0.5 mi (0.8 km) upstream from confluence with Middle Fork Smith River, 0.5 mi (0.8 km) north of Gasquet.	158	1911-18‡, 1952-57, 1954-57e, 1961, 1977	7-13-77	b 92.7
11531800	South Fork Smith River at Big Flat, CA	Lat 41°41'03", long 123°54'52", in SW¼NE¼, sec.23, T.15 N., R.2 E., Del Norte County, Six Rivers National Forest, 200 ft (61 m) downstream from Hurdygurdy Creek, 0.3 mi (0.5 km) southwest of Big Flat guard station, and 15.9 mi (25.6 km) southeast of Crescent City.	174	1977	6-30-77	b 147
11531850	Goose Creek at Big Flat, CA	Lat 41°41'06", long 123°55'23", in NW¼NW¼ sec.23, T.15 N., R.2 E., Del Norte County, Six Rivers National Forest, 200 ft (61 m) upstream from mouth, 0.7 mi (1.1 km) southwest of Big Flat guard station, and 15.4 mi (24.8 km) southeast of Crescent City.	40.5	1977	7-13-77	b 30.2
11531950	Rock Creek near Big Flat, CA	Lat 41°44'05", long 123°59'01", in NE¼SE¼ sec.31, T.16 N., R.2 E., Del Norte County, Six Rivers National Forest, 400 ft (122 m) upstream from bridge, 500 ft (152 m) upstream from mouth, 5.0 mi (8.0 km) northwest of Big Flat guard station, and 11.5 mi (18.5 km) southeast of Crescent City.	16.1	1977	6-30-77 8-16-77	b 9.33 b 5.78
11532690	Dominie Creek at Smith River, CA	Lat 41°55'54", long 124°08'43", in SE¼SW¼ sec.23, T.18 N., R.1 W., Del Norte County, 700 ft (213 m) upstream from bridge on U.S. Highway 101, 0.2 mi (0.3 km) upstream from mouth, and 0.2 mi (0.3 km) north of town of Smith River.	3.62	1977a	7-20-77 8-18-77 9-15-77	b 1.59 b 1.27 b .94
11532700	Rowdy Creek at Smith River, CA	Lat 41°55'18", long 124°08'45", in NE¼SW¼ sec.26, T.18 N., R.1 W., Del Norte County, 0.4 mi (0.6 km) downstream from Dominie Creek, 0.6 mi (1.0 km) south of town of Smith River, and 12.2 mi (19.6 km) north of Crescent City.	33.3 (revised)	1957-62‡, 1977a	7-19-77 8-17-77 9-15-77	b 6.57 b 4.44 b 4.19
		Lopez Creek basin				
11533000	Lopez Creek near Smith River, CA	Lat 41°57'36", long 124°12'08", in SE¼ sec.8, T.18 N., R.1 W., Del Norte County, at culvert on U.S. Highway 101, 0.2 mi (0.3 km) upstream from mouth, and 3.7 mi (6.0 km) northwest of town of Smith River.	0.92	1961-66‡, 1967-73e, 1977	7-19-77 8-17-77 9-15-77	b 0.07 b .07 b .05

* Also a crest-stage partial-record station.
‡ Operated as a continuous-record gaging station.
a Water-quality data for current year published in partial-record section of this report.
b Base flow.
c Published as a miscellaneous measurement.
d Water-quality data for current year published in this report.
e Operated as a crest-stage partial-record station.
f Not previously published.
g Data are available since 1938 in reports of California Department of Water Resources.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for the current water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been obtained.

Annual maximum discharge at crest-stage partial-record stations during water year 1977

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Napa River basin					
11455865	Blossom Creek near Calistoga, CA	Lat 38°35'36", long 122°36'47", in Carne Humana Grant, Napa County, on left bank at upstream side of private road bridge, 1.1 mi (1.8 km) upstream from mouth, and 2.2 mi (3.5 km) northwest of Calistoga.	2.01	1976-77a	--	--	b
*11455880	Garnett Creek near Calistoga, CA	Lat 38°35'36", long 122°35'26", in Carne Humana Grant, Napa County, on right bank at upstream side of bridge on Greenwood Avenue, 0.6 mi (1.0 km) upstream from mouth, and 1.2 mi (1.9 km) northwest of Calistoga.	7.66	1976-77a	--	--	b
11455890	Cyrus Creek at Calistoga, CA	Lat 38°34'51", long 122°35'38" in Carne Humana Grant, Napa County, on right bank at downstream side of bridge on State Highway 128, 0.5 mi (0.8 km) upstream from mouth, and 0.8 mi (1.3 km) west of Calistoga.	3.03	1976-77a	--	--	b
11458140	Milliken Creek at Napa, CA	Lat 38°19'31", long 122°16'24", in Yajome Grant, Napa County, on right bank at upstream side of West Trancas Road bridge, at Napa, and 0.7 mi (1.1 km) upstream from mouth.	20.8	1971-77	--	--	b
11458150	Sarco Creek near Napa, CA	Lat 38°19'56", long 122°15'06", in Tulucay Grant, Napa County, on left bank at culvert on Vichy Avenue, 3 mi (5 km) northwest of Napa.	3.56	1971-77	--	--	b
		Russian River basin					
11460940	Russian River near Redwood Valley, CA	Lat 39°19'10", long 123°13'20", in NW¼ sec.20, T.17 N., R.12 W., Mendocino County, on left bank 600 ft (183 km) upstream from Rocky Creek and 3.8 mi (6.1 km) north of town of Redwood Valley.	14.1	1964-68c, 1969-77	3-15-77	2.80	4.5
11463940	Franz Creek near Kellogg, CA	Lat 38°36'30", long 122°45'35", in Mallacomes Grant, Sonoma County, on left bank at downstream side of highway bridge, 100 ft (30 m) downstream from Bidwell Creek, and 2 mi (3 km) south of Kellogg.	15.7	1956, 1958-62, 1963-68c, 1969-77	--	--	b
		Albion River basin					
*11468010	Albion River near Comptche, CA	Lat 39°15'40", long 123°37'00", in SW¼ sec.11, T.16 N., R.16 W., Mendocino County, on right bank 2,000 ft (610 m) downstream from Morrison Gulch and 1.7 mi (2.7 km) west of Comptche.	14.4	1961-69c, 1970-77	3-15-27	2.88	18
		Eel River basin					
11469600	Hull Creek near Potter Valley, CA	Lat 39°32'39", long 122°55'34", in SW¼NE¼ sec.35, T.20 N., R.10 W., Mendocino County, Mendocino National Forest, at culvert on Hull Creek Road, 18 mi (29 km) northeast of Potter Valley.	1.49	1970-77	3-15-77	54.06	215
11469650	Corbin Creek near Elk Creek, CA	Lat 39°32'56", long 122°43'28", in NW¼NE¼ sec.35, T.20 N., R.8 W., Glenn County, Mendocino National Forest, at culvert on Elk Creek-Potter Valley Road, 11 mi (18 km) southwest of town of Elk Creek.	6.18	1971-77	--	--	b

See footnotes at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft^3/s)
		Eel River basin--Continued					
11469800	Cold Creek tributary near Elk Creek, CA	Lat 39°26'18", long 122°45'35", Lake County, Mendocino National Forest, at culvert on Pacific Crest Road, 4 mi (6 km) upstream from mouth, and 16.5 mi (26.5 km) southwest of town of Elk Creek.	.81	1969-70c, 1971-77	3-15-77	1.69	1.8
*11472700	Hammerhorn Creek near Covelo, CA	Lat 39°56'42", long 122°59'50", in SW¼SW¼ sec.8, T.24 N., R.10 W., Mendocino County, Mendocino National Forest, at culvert on Six Rivers-Clear Lake road 17 mi (27 km) northeast of Covelo.	3.36	1969-77	--	--	b
		Klamath River basin					
*11522300	South Fork Salmon River near Forks of Salmon, CA	Lat 41°13'20", long 123°15'00", in SE¼ sec.30, T.39 N., R.12 W., Siskiyou County, on left bank 100 ft (30 m) downstream from Methodist Creek and 4.5 mi (7.2 km) southeast of town of Forks of Salmon.	252	1958-66c 1967-77	5-26-77	4.38	360

* Also a low-flow partial-record station.
a Water-quality data for current year published in partial-record section of this report.
b Peak discharge did not reach base of gage.
c Operated as a continuous-record gaging station.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

ARROYO GRANDE BASIN
11141290 LOPEZ RESERVOIR NEAR ARROYO GRANDE, CA

LOCATION.--Lat 35°11'20", long 120°29'02", in sec.33, T.31 S., R.14 E., San Luis Obispo County, at dam on Arroyo Grande, 8 mi (13 km) northeast of Arroyo Grande Post Office.
DRAINAGE AREA.--67.7 mi² (175.3 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG						
23...	1420	.5	669	8.6	21.5	8.1
23...	1421	1.0	669	8.6	21.5	8.1
23...	1422	2.0	669	8.5	21.5	8.1
23...	1423	3.0	669	8.4	21.8	8.1
23...	1424	4.0	669	8.5	21.5	8.1
23...	1425	5.0	669	8.5	21.5	8.1
23...	1426	6.0	669	8.5	21.5	8.1
23...	1427	7.0	669	8.5	21.5	8.1
23...	1428	8.0	675	8.4	21.0	7.7
23...	1429	9.0	683	8.1	19.5	1.8
23...	1430	10.0	690	8.0	18.0	1.7
23...	1431	11.0	749	7.9	14.0	1.6
23...	1432	12.0	699	8.1	14.0	1.2
23...	1433	13.0	683	8.4	13.0	1.0
23...	1434	15.0	689	8.6	11.5	.7
23...	1436	16.0	689	8.6	11.5	.6
23...	1437	17.0	692	8.6	11.0	.6
23...	1438	18.0	685	8.7	11.0	.5
23...	1439	19.0	685	8.7	11.0	.5
23...	1440	20.0	699	8.7	11.0	.5
23...	1441	21.0	699	8.7	11.0	.4
23...	1442	22.0	699	8.7	11.0	.4

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
AUG											
23...	1450	1.0	669	8.6	21.5	8.1	350	63	81	36	25

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
AUG											
23...	13	.6	4.4	320	15	290	110	21	.5	2.0	453

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG											
23...	.62	.01	.03	.02	.64	.66	.67	.28	.03	50	30

LITTLE SUR RIVER BASIN
11143020 LITTLE SUR RIVER NEAR POINT SUR, CA

LOCATION.--Lat 36°19'57", long 121°53'03", in SE¼ sec.29, T.18 S., R.1 E., Monterey County, at bridge on State Highway 1, 0.5 mi (0.8 km) upstream from mouth, and 2.0 mi (3.2 km) northeast of Point Sur.
DRAINAGE AREA.--39.9 mi² (103.3 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG									
10...	1230	.82	450	8.1	17.0	10.9	190	19	55

1/ To convert meters to feet, multiply by 3.281.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

LITTLE SUR RIVER BASIN--Continued
11143020 LITTLE SUR RIVER NEAR POINT SUR, CA--Continued

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG 10...	13	20	18	.6	1.3	210	0	170	32

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG 10...	19	.6	22	267	.36	.59	.01	70	10

GARRAPATA CREEK BASIN
11143046 GARRAPATA CREEK AT STATE HIGHWAY 1, NEAR NOTLEYS LANDING, CA

LOCATION.--Lat 36°25'02", long 121°54'45", in San Jose Y Sur Chiquito Grant, Monterey County, at bridge on State Highway 1, 800 ft (244 m) upstream from mouth, and 1.5 mi (2.4 km) northwest of Notleys Landing.
DRAINAGE AREA.--10.6 mi^2 (27.5 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
AUG 10...	0930	.37	420	7.7	14.0	9.9	160	22	35

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG 10...	18	31	29	1.1	2.2	170	0	140	11

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG 10...	57	.6	.5	241	.33	.24	.40	20	20

SALINAS RIVER BASIN
11152200 SALINAS RIVER NEAR GONZALES, CA

LOCATION.--Lat 36°29'12", long 121°28'06", in Paraje de Sanchez Grant, Monterey County, at upstream side of Gonzales Road bridge, 2.0 mi (3.2 km) southwest of Gonzales.
DRAINAGE AREA.--3,977 mi^2 (10,300 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
SEP 01...	1520	430	8.6	24.5	9.7	190	47	47

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

SALINAS RIVER BASIN--Continued
11152200 SALINAS RIVER NEAR GONZALES--Continued

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
SEP 01...	18	21	19	.7	3.0	170	3	140	77

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
SEP 01...	13	.4	18	284	.39	.02	60	10

PAJARO RIVER BASIN
11159150 CORRALITOS CREEK NEAR CORRALITOS, CA

LOCATION.--Lat 37°00'20", long 121°48'25", in Los Corralitos Grant, Santa Cruz County, 0.5 mi (0.8 km) downstream from Morman Gulch, 1.2 mi (1.9 km) upstream from Corralitos, and 7 mi (11 km) northwest of Watsonville.
DRAINAGE AREA.--10.6 mi^2 (27.5 km^2).
PERIOD OF RECOD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
AUG 19...	1210	1.3	580	7.4	15.0	9.7	240	2	53

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG 19...	26	25	18	.7	3.8	290	0	240	38

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG 19...	14	.2	43	346	.47	1.21	.09	60	30

11159500 PAJARO RIVER AT WATSONVILLE, CA

LOCATION.--Lat 36°54'19", long 121°45'01", in Bolsa del Pajaro Grant, Santa Cruz County, at bridge on State Highway 1, in Watsonville and 5 mi (8 km) upstream from mouth.
DRAINAGE AREA.--1,273 mi^2 (3,297 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
AUG 19...	0930	.02	1600	7.5	21.5	6.8	660	100	81

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PAJARO RIVER BASIN--Continued
11159500 PAJARO RIVER AT WATSONVILLE, CA--Continued

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG 19...	110	110	26	1.9	9.6	680	0	560	210

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG 19...	93	.5	21	971	1.32	.05	.01	610	60

APTOS CREEK BASIN
11159700 APTOS CREEK AT APTOS, CA

LOCATION.--Lat 36°58'33", long 121°54'05", in Aptos Grant, Santa Cruz County, at Aptos 0.6 mi (1.0 km) upstream from mouth.
DRAINAGE AREA.--12.3 mi² (31.9 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
AUG 25...	1030	.40	1080	7.9	14.0	9.7	340	52	73

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG 25...	38	86	35	2.0	5.5	350	0	290	91

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG 25...	100	.2	37	604	.82	.65	.14	130	30

SOQUEL CREEK BASIN
11159800 WEST BRANCH SOQUEL CREEK NEAR SOQUEL, CA

LOCATION.--Lat 37°03'03", long 121°56'17", in NW¼ sec.23, T.10 S., R.1 W., Santa Cruz County, 0.5 mi (0.8 km) upstream from mouth and 4.5 mi (7.2 km) north of Soquel.
DRAINAGE AREA.--12.2 mi² (31.6 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
AUG 25...	1330	.73	625	7.6	16.5	8.9	240	22	53

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

SOQUEL CREEK BASIN--Continued
11159800 WEST BRANCH SOQUEL CREEK NEAR SOQUEL, CA--Continued

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG 25...	25	55	33	1.6	5.0	260	0	210	48

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG 25...	70	.3	48	433	.59	.85	.08	120	30

SAN LORENZO RIVER BASIN
11160250 FALL CREEK AT FELTON, CA

LOCATION.--Lat 37°03'33", long 122°04'42", in Zayante Grant, Santa Cruz County.
DRAINAGE AREA.--4.94 mi^2 (12.79 km^2).
PERIOD OF RECORD.--Water years 1973-77 (discontinued).
CHEMICAL ANALYSES: Water years 1973-75.
SEDIMENT RECORDS: Water year 1976-77 (discontinued).

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB 07...	1555	9.5	1.0	4	.01	54

11161500 BRANCIFORTE CREEK AT SANTA CRUZ, CA

LOCATION.--Lat 36°59'10", long 122°00'48", in NE¼SW¼ sec.7, T.11 S., R.1 W., Santa Cruz County, in Santa Cruz, 15 ft (5 m) downstream from Market Street bridge, and 1.0 mi (1.6 km) upstream from mouth.
DRAINAGE AREA.--17.3 mi^2 (44.8 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1973-75, 1977.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
AUG 26...	0950	1.1	600	7.7	15.5	8.3	220	20	59

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG 26...	17	41	29	1.2	3.2	240	0	200	65

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG 26...	37	.3	29	370	.50	1.10	.10	140	60

MAJORS CREEK BASIN
11161570 MAJORS CREEK NEAR SANTA CRUZ, CA

LOCATION.--Lat 36°59'55", long 122°07'13", in Refugio Grant, Santa Cruz County, on left bank 1.5 mi (2.4 km) downstream from small left-bank tributary, 1.7 mi (2.7 km) upstream from State Highway No. 1, and 5.5 mi (8.8 km) northwest of Santa Cruz Post Office.
DRAINAGE AREA.--3.77 mi^2 (9.76 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 18...	1630	.76	425	7.6	16.0	9.5	180	53	64

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 18...	4.0	16	16	.5	1.7	150	0	120	72

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 18...	16	.1	.1	250	.34	.51	.37	20	20

LAGUNA CREEK BASIN
11161590 LAGUNA CREEK NEAR DAVENPORT, CA

LOCATION.--Lat 37°01'32", long 122°07'48", in SW¼SW¼ sec.30, T.10 S., R.2 W., Santa Cruz County, on right bank 0.2 mi (0.3 km) upstream from Reggiardo Creek, 0.4 mi (0.6 km) downstream from small left-bank tributary, and 3.6 mi (5.8 km) northeast of Davenport.
DRAINAGE AREA.--3.07 mi^2 (7.95 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 18...	1500	.14	385	7.5	15.0	9.2	160	0	55

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 18...	6.4	12	14	.4	2.1	200	0	160	16

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 18...	9.7	.1	30	230	.31	.09	.03	20	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PURISIMA CREEK BASIN
11162600 PURISIMA CREEK NEAR HALF MOON BAY, CA

LOCATION.--Lat 37°26'06", long 122°22'23", in Canada de Verde y Arroyo de la Purisima Grant, San Mateo County, 15 ft (5 m) downstream from county road bridge, 3.6 mi (5.8 km) southeast of Half Moon Bay, and 4.0 mi (6.4 km) upstream from mouth.
DRAINAGE AREA.--4.83 mi^2 (12.51 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 29...	1300	.21	805	7.9	16.5	9.4	290	13	84

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 29...	20	35	20	.9	3.3	340	0	280	60

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 29...	26	.5	24	421	.57	.24	.05	100	20

SAN PEDRO CREEK BASIN
11162655 SAN PEDRO CREEK AT PACIFICA, CA

LOCATION.--Lat 37°35'30", long 122°30'07", in San Pedro (Sanchez) Grant, San Mateo County, at Pacifica, 0.3 mi (0.5 km) upstream from State Highway 1, 0.4 mi (0.6 km) upstream from mouth.
DRAINAGE AREA.--7.08 mi^2 (18.34 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 29...	1100	.52	580	7.7	16.0	9.8	200	3	47

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 29...	20	31	25	1.0	.9	240	0	200	16

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 29...	37	.3	19	290	.39	.41	.02	50	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

ALAMEDA CREEK BASIN
11174600 ALAMO CANAL NEAR PLEASANTON, CA

LOCATION.--Lat 37°41'10", long 121°54'54", in Santa Rita Grant, Alameda County, on right bank 30 ft (9 m) upstream from VCSD wasteway, 0.7 mi (1.1 km) upstream from Arroyo Mocho, 3 mi (5 km) northwest of Pleasanton.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1975 to current year.
COOPERATION.--Chemical-quality samples were collected by Valley Community Services District.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 25...	1430	3.4	1380	7.9	19.0	3	460	100	50
JAN 25...	0850	3.4	1660	7.3	--	6	510	120	52
APR 19...	1135	3.3	1850	7.5	20.0	2	530	120	55
JUL 26...	0845	--	1930	7.3	15.5	2	530	110	62

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT 25...	240	951	1.29	8.73	1.4	.01	1.4	.01	.00
JAN 25...	230	985	1.34	9.04	.31	.01	.32	.08	.20
APR 19...	260	1100	1.50	9.80	2.8	.00	2.8	.02	.10
JUL 26...	360	1220	1.66	--	.60	.03	.63	.00	.10

11176150 ARROYO LAS POSITAS NEAR LIVERMORE, CA

LOCATION.--Lat 37°41'52", long 121°48'15", in Valle de San Jose Grant, Alameda County, on right bank, 15 ft (5 m) upstream from Kitty Hawk Road, 800 ft (244 m) upstream from Collier Creek, and 2.3 mi (3.7 km) northwest of Livermore.
DRAINAGE AREA.--64.6 mi^2 (167.3 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1976 to current year.
COOPERATION.--Chemical-quality samples were collected by City of Livermore.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
DEC 30...	0945	1000	7.4	23.0	60	270	47	37

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
DEC 30...	150	629	.86	2.0	.07	2.1	.05	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

ALAMEDA CREEK BASIN--Continued

11179010 SAN FRANCISCO RELEASE AT NILES RESERVOIR, AT NILES, CA

LOCATION.--Lat 37°34'55", long 121°57'35", in SW¼ sec.15, T.4 S., R.1 W., Alameda County, at Niles Reservoir 1 mi (2 km) northeast of Niles.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1975 to current year.
COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT								
21...	0940	566	8.5	17.0	1	250	57	26
JAN								
26...	0935	566	8.2	9.0	1	230	53	24

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT								
21...	32	341	.46	7.8	.00	7.8	.03	.00
JAN								
26...	37	346	.47	5.7	.00	5.7	.02	.10

11179040 KAISER PIT AT NILES, CA

LOCATION.--Lat 37°34'08", long 121°58'56", in SW¼ sec.21, T.4 S., R.1 W., Alameda County, at Kaiser recharge pit, 0.6 mi (1.0 km) south of Niles.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1975 to current year.
COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT								
21...	0915	610	8.4	20.0	4	150	27	19
JAN								
26...	0905	858	8.4	9.5	8	180	36	23
APR								
27...	1440	981	8.4	20.5	6	190	35	26
JUL								
27...	0915	979	9.7	24.0	3	180	31	24

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT								
21...	93	344	.47	2.8	.03	2.8	.09	.00
JAN								
26...	130	482	--	6.1	.07	6.2	.04	.20
APR								
27...	190	585	.80	5.6	.08	5.7	.01	.10
JUL								
27...	220	589	.80	1.1	.61	1.7	.23	.10

ALAMEDA CREEK BASIN--Continued
11179050 SHINN PIT AT NILES, CA

LOCATION.--Lat 37°34'12", long 121°59'15", in Arroyo de la Arroyo Grant, Alameda County, 0.6 mi (1.0 km) south of niles.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1975 to current year.
COOPERATION.--Chemical-quality samples were collected by Alameda County Water District.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 21...	1345	636	8.9	22.0	2	150	27	19
JAN 26...	1355	798	8.8	12.0	5	180	36	23
APR 27...	1400	972	8.5	21.0	10	190	36	25
JUL 27...	1330	1060	--	22.0	3	180	31	24

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT 21...	98	356	.48	2.8	.22	3.0	.00	.00
JAN 26...	130	476	.65	5.8	.07	5.9	.00	.20
APR 27...	190	585	.80	4.2	.11	4.3	.00	.10
JUL 27...	230	592	.81	.35	.07	.42	.10	.10

RICHMOND INNER HARBOR
UNNAMED CREEK AT RICHMOND INDUSTRIAL SITE, CA

LOCATION.--Lat 37°54'57", long 122°20'35", in San Pablo Grant, Contra Costa County, at Richmond Industrial Site in Richmond.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	PH (UNITS)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO
AUG 25...	1100	7.8	19.5	11	190	28	39	23	35	28	1.1

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
AUG 25...	1.1	200	0	160	35	43	.5	23	302	.41

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	SUSPENDED SOLIDS (MG/L)	VOL. NONFILTRABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 25...	7	7	4	.80	.76	.71	1.5	.36	120	60

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

NAPA RIVER BASIN

11455850 NAPA RIVER AT TUBBS LANE, NEAR CALISTOGA, CA

LOCATION.--Lat 38°36'03", long 122°35'51", in Carne Humana Grant, Napa County, on right bank at upstream side of Tubbs Lane bridge, 1.8 mi (2.9 km) northwest of Calistoga.
DRAINAGE AREA.--4.87 mi² (12.61 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976 to current year.
COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
MAR 17...	1300	56	12	11	6.9	31	53	1.8	2.7	53

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
MAR 17...	43	18	43	.4	18	171	.23	2.5	2300	490

11455860 NAPA RIVER AT GREENWOOD AVENUE, NEAR CALISTOGA, CA

LOCATION.--Lat 38°35'22", long 122°35'48", in Carne Humana Grant, Napa County, on left bank at culvert on Greenwood Avenue, 1.2 mi (1.9 km) northwest of Calistoga.
DRAINAGE AREA.--5.39 mi² (13.96 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976 to current year.
COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
DEC 13...A	1100	--	--	--	--	89	0	16
30...	1245	.21	980	7.0	9.7	67	0	12
JAN 02...	2150	1.4	818	9.5	32	65	14	12
MAR 17...A	1335	--	--	--	--	62	0	10
MAY 09...A	1130	--	--	--	--	84	0	14

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
DEC 13...	12	180	80	8.3	4.4	183	150	31	210
30...	9.1	180	84	9.5	5.7	156	128	36	200
JAN 02...	8.4	120	78	6.5	7.2	62	51	55	150
MAR 17...	8.9	130	81	7.2	5.1	123	100	32	140
MAY 09...	12	180	81	8.5	4.9	200	160	17	210

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
DEC 13...	9.4	85	648	.88	--	.06	9300	370
30...	4.6	96	631	.86	.36	.28	9100	480
JAN 02...	4.7	31	433	.59	1.67	1.7	6200	320
MAR 17...	6.3	55	459	.62	--	.67	6500	2000
MAY 09...	8.7	85	642	.87	--	.45	9400	740

NAPA RIVER BASIN--Continued

11455865 BLOSSOM CREEK NEAR CALISTOGA, CA

LOCATION.--Lat 38°35'36", long 122°36'47", in Carne Humana Grant, Napa County, on left bank at upstream side of private road bridge, 1.1 mi (1.8 km) upstream from mouth, and 2.2 mi (3.5 km) northwest of Calistoga.
DRAINAGE AREA.--2.01 mi² (5.21 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976 to current year.
COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
MAR 17...	1438	40	0	10	3.6	18	47	1.2	3.9	52

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
MAR 17...	43	27	11	.2	50	153	.21	.75	150	130

11455880 GARNETT CREEK NEAR CALISTOGA, CA

LOCATION.--Lat 38°35'36", long 122°35'26", in Carne Humana Grant, Napa County, on right bank at upstream side of bridge on Greenwood Avenue, 0.6 mi (1.0 km) upstream from mouth, and 1.2 mi (1.9 km) northwest of Calistoga.
DRAINAGE AREA.--7.66 mi² (19.84 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976 to current year.
COOPERATION.--The letter "A" following a date indicates chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
DEC 30...	1205	.04	230	7.0	1.8	77	18	21
JAN 02...	2220	.72	215	7.0	3.4	71	20	19
MAR 17...A	1235	--	--	--	--	46	10	12
MAY 09...A	1145	--	--	--	--	58	9	16

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
DEC 30...	6.0	15	29	.7	1.8	72	59	17	21
JAN 02...	5.6	14	30	.7	1.5	61	50	21	20
MAR 17...	4.0	7.8	26	.5	1.2	45	37	16	5.5
MAY 09...	4.5	10	27	.6	1.0	60	49	19	8.6

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
DEC 30...	.1	34	152	.21	.02	.08	470	30
JAN 02...	.2	34	146	.20	.28	.08	460	110
MAR 17...	.1	31	101	.14	--	.25	50	180
MAY 09...	.1	35	127	.17	--	.66	140	70

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

NAPA RIVER BASIN--Continued
11455890 CYRUS CREEK AT CALISTOGA, CA

LOCATION.--Lat 38°34'51", long 122°35'38", in Carne Humana Grant, Napa County, on right bank at downstream side of bridge on State Highway 128, 0.5 mi (0.8 km) upstream from mouth, and 0.8 mi (1.3 km) west of Calistoga.
DRAINAGE AREA.--3.03 mi^2 (7.85 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976 to current year.
COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
MAR 17...	1400	67	15	13	8.3	16	33	.9	3.1	63

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
MAR 17...	52	24	24	.1	40	161	.22	.19	60	190

LAKE HENNESSEY NEAR OAKVILLE, CA

LOCATION.--Lat 38°28'55", long 122°22'17", in SW¼ sec.1, T.7 N., R.5 W., Napa County, at dam on Conn Creek, 3.5 mi (5.6 km) northeast of Oakville.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
SEP 26...	1430	.5	321	8.7	21.5	9.6
26...	1431	1.0	327	8.7	20.5	8.9
26...	1432	2.0	331	8.6	20.0	8.5
26...	1433	3.0	331	8.6	20.0	8.2
26...	1434	4.0	327	8.5	20.0	7.4
26...	1435	5.0	330	8.1	19.5	3.4
26...	1436	6.0	330	7.9	19.5	3.1
26...	1437	7.0	330	7.9	19.5	2.7
26...	1438	8.0	330	7.8	19.5	2.3
26...	1439	9.0	330	7.8	19.5	2.0
26...	1440	10.0	330	7.8	19.5	1.3
26...	1441	11.0	330	7.7	19.0	1.0
26...	1442	12.0	333	7.6	18.5	.6
26...	1443	13.0	334	7.5	18.0	.5
26...	1444	14.0	334	7.4	18.0	.5
26...	1445	15.0	334	7.4	17.5	.5
26...	1446	16.0	331	7.4	17.5	.5
26...	1447	17.0	331	7.4	17.5	.5
26...	1448	18.0	331	7.4	17.5	.5

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM
SEP 26...	1450	1.0	321	21.5	9.6	170	10	25	27	12	13

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
SEP 26...	.4	2.1	200	160	16	8.4	.1	21	210	.29

1/ To convert meters to feet, multiply by 3.281.

NAPA RIVER BASIN--Continued
LAKE HENNESSEY NEAR OAKVILLE, CA--Continued

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
SEP 26...	.01	.01	.01	.28	.29	.30	.07	.04	140	10

11458050 NAPA RIVER AT NAPA, CA

LOCATION.--Lat 38°19'30", long 122°17'29", in Napa Grant, Napa County, on right bank 10 ft (3 m) downstream from West Trancas Road bridge in town of Napa and 0.1 mi (0.2 km) downstream from small right-bank tributary.
DRAINAGE AREA.--234 mi^2 (606 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976 to current year.
COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JAN 12...	1115	170	86	26	26	110	57	3.7	4.7	105
MAR 17...	0942	130	23	22	17	27	31	1.1	3.0	124
MAY 09...	1430	520	400	56	92	700	74	13	5.2	140

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
JAN 12...	86	100	160	.2	20	506	.69	1.5	330	440
MAR 17...	102	36	37	.3	20	229	.31	1.1	400	160
MAY 09...	110	180	1300	.2	14	2420	3.29	.65	410	270

11458310 NAPA RIVER AT THIRD STREET, AT NAPA, CA

LOCATION.--Lat 38°17'54", long 122°16'58", in Entre Napa Grant, Napa County, on right bank at upstream side of Third Street bridge in Napa, 0.1 mi (0.2 km) downstream from Napa Creek.
DRAINAGE AREA.--283 mi^2 (733 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1976 to current year.
COOPERATION.--Chemical-quality samples were collected by Napa County Flood Control and Water Conservation District.

DATE	TIME	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JAN 12...	1140	1300	1200	100	260	2000	76	24	71	116
MAR 17...	0845	770	700	61	150	1300	77	20	48	88
MAY 09...	1500	1700	1600	130	340	2900	77	30	110	140

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
JAN 12...	95	520	3800	.3	18	6830	9.29	1.4	990	140
MAR 17...	72	310	2400	.3	13	4330	5.89	.65	630	80
MAY 09...	110	700	5300	.4	11	9560	13.0	.09	1300	410

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

LAGUNITAS CREEK BASIN
11460610 OLEMA CREEK AT OLEMA, CA

LOCATION.--Lat 38°02'25", long 122°47'16", in Tomales Y Baulines (Garcia) Grant, Marin County, in town of Olema, 300 ft (91 m) west of intersection of State Highway 1 and Sir Francis Drake Highway.
DRAINAGE AREA.--12.5 mi^2 (32.4 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 10...	1000	.13	409	6.8	15.0	5.4	170	7	37

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 10...	19	21	21	.7	3.0	200	0	160	14

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 10...	25	.2	8.7	227	.31	.08	.02	40	120

RUSSIAN RIVER BASIN
11462050 RUSSIAN RIVER AT UKIAH, CA

LOCATION.--Lat 39°08'03", long 123°11'07", in Yokaya Grant, Mendocino County, 200 ft (61 m) downstream from River Road bridge, 0.1 mi (0.2 km) downstream from Mill Creek, and 1 mi (2 km) east of Ukiah.
DRAINAGE AREA.--283 mi^2 (733 km^2).
PERIOD OF RECORD.--Water years 1908, 1952-58, 1977.
CHEMICAL ANALYSES: Water years 1908, 1952-58, 1977. Published as "near Ukiah" in 1908, 1952-56.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY											
03...	1435	--	226	9.0	14.0	4.0	14.3	140	--	2400	<30
13...	1210	40	246	8.0	13.0	3.6	10.6	102	13	430	90
17...	1300	72	228	8.0	13.0	4.7	10.8	104	--	230	<30
27...	1100	70	233	--	12.0	4.9	10.4	97	11	40	<30
JUN											
03...	1030	119	213	8.0	12.0	5.0	10.3	96	--	<30	<30
07...	1240	164	211	7.9	15.0	5.3	10.9	109	5	1200	140
17...	1020	128	219	8.0	12.0	4.9	10.1	94	--	430	230
21...	1245	183	212	8.2	17.0	4.8	10.9	114	8	90	40
JUL											
01...	0920	177	217	8.2	15.0	5.1	9.5	95	--	1200	<20
05...	1330	162	220	8.4	17.5	5.3	10.7	114	0	400	20
15...	0830	154	221	7.7	16.0	5.5	9.0	92	--	1300	330
19...	1130	154	217	7.9	19.0	4.8	9.6	104	4	20	20
29...	1005	168	218	8.1	18.0	4.2	8.8	94	--	920	21
AUG											
02...	1130	200	224	8.0	22.0	3.3	9.0	103	8	4	<2
11...	1130	149	229	8.1	23.0	1.8	8.9	105	--	920	240
16...	1055	147	241	8.0	22.0	2.2	8.4	97	11	920	49
23...	1140	128	234	7.9	23.0	1.9	8.6	101	--	350	14
SEP											
01...	1215	117	249	8.2	22.0	1.5	8.9	102	6	>2400	4
08...	1045	108	253	8.1	22.0	1.4	8.2	94	--	220	17
13...	1030	89	245	8.1	20.5	1.4	8.2	91	8	>2400	130
22...	1100	45	262	7.9	18.0	3.9	8.6	91	--	>2400	79
26...	1305	25	284	8.0	19.0	1.9	9.0	102	15	140	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11462050 RUSSIAN RIVER AT UKIAH, CA--Continued

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
03...	B4	B20	9	--	--	--	--	--	--	--
13...	24	B9	23	.19	--	--	--	--	--	--
17...	B4	B8	7	--	--	--	--	--	--	--
27...	B6	25	7	.23	--	--	--	--	--	--
JUN										
03...	10	36	43	--	--	--	--	--	--	--
07...	11	58	43	<.10	--	--	--	--	--	--
17...	B81	110	93	--	--	--	--	--	--	--
21...	27	75	93	.04	.05	.01	.00	.05	.05	.01
JUL										
01...	27	80	270	--	--	--	--	--	--	--
05...	B10	21	200	.03	.01	.00	.00	.03	.01	.00
15...	15	38	630	--	--	--	--	--	--	--
19...	B9	24	<2	.03	.02	.00	.00	.03	.02	.01
29...	10	37	<2	--	--	--	--	--	--	--
AUG										
02...	20	76	13	.02	.05	.01	.00	.03	.05	.00
11...	14	39	140	--	--	--	--	--	--	--
16...	51	44	21	.01	.02	.00	.00	.01	.02	.00
23...	20	18	350	--	--	--	--	--	--	--
SEP										
01...	8	20	21	.01	.00	.01	.00	.02	.00	.00
08...	22	52	540	--	--	--	--	--	--	--
13...	B140	53	350	.02	.01	.01	.00	.03	.01	.00
22...	120	46	350	--	--	--	--	--	--	--
26...	32	28	4	.07	.05	.01	.00	.08	.05	.00

DATE	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)
MAY										
03...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	.40	--	--	<.33	<1.0	--	--
17...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	<.20	--	--	.50	1.5	--	--
JUN										
03...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	<.20	--	--	<.33	<1.0	--	--
17...	--	--	--	--	--	--	--	--	--	--
21...	.02	.16	.02	.17	.04	.22	.03	--	.01	.03
JUL										
01...	--	--	--	--	--	--	--	--	--	--
05...	.01	.09	.08	.09	.09	.12	.02	--	.01	.03
15...	--	--	--	--	--	--	--	--	--	--
19...	.03	--	.22	--	.25	--	.03	--	.01	.03
29...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	.02	.07	.03	.07	.05	.10	.00	--	.01	.03
11...	--	--	--	--	--	--	--	--	--	--
16...	.02	.59	.66	.59	.68	.60	.02	--	.01	.03
23...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	.01	.30	.16	.30	.17	.32	.01	--	.01	.03
08...	--	--	--	--	--	--	--	--	--	--
13...	.01	.19	.00	.19	.00	.22	.01	--	.01	.03
22...	--	--	--	--	--	--	--	--	--	--
26...	.00	.03	.02	.03	.02	.11	.02	--	.01	.03

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 13	1210	0.5	47.2	45.6	0.090	0.019	17780
June 7	1240	1.7	--	--	.037	.008	--
July 5	1330	.5	--	--	--	--	--
Aug. 2	1130	.3	59.0	57.5	.146	.033	10270
Sept. 1	1215	.6	55.0	53.5	.211	.012	7109
Sept. 26	1305	.4	52.1	52.1	.738	.079	.00

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
June 21	40	5.95	3.64	0.700	1.14	3307	Polyethylene strip
Sept. 8	29	27.1	17.2	.092	.047	107600	Polyethylene strip

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11462690 RUSSIAN RIVER AT HOPLAND, CA

LOCATION.--Lat 38°58'18", long 123°06'20", in Sanel Grant, Mendocino County, 100 ft (30 m) upstream from bridge on State Highway 175, 0.5 mi (0.8 km) west of Hopland.
DRAINAGE AREA.--389 mi^2 (1,008 km^2).
PERIOD OF RECORD.--Water year 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY											
04...	0930	91	253	7.7	13.0	2.5	9.8	94	--	430	70
13...	1045	46	273	7.6	14.0	1.7	9.7	95	6	40	40
17...	1430	56	255	7.9	19.0	2.0	10.2	111	--	230	<30
27...	0940	74	254	--	14.0	2.2	9.8	96	11	40	<30
JUN											
03...	0855	93	243	7.8	15.0	3.2	9.1	91	--	150	40
07...	1405	136	228	7.9	21.0	3.5	10.3	117	9	430	70
17...	0955	110	236	7.5	16.0	3.1	8.5	87	--	430	70
21...	1420	115	228	8.0	23.0	2.7	10.8	127	10	430	90
30...	1400	145	229	8.2	21.0	2.6	10.7	122	--	490	40
JUL											
06...	0845	134	231	7.8	16.0	2.4	8.9	91	8	9400	9400
14...	1225	119	235	7.9	20.0	2.2	10.5	117	--	2	<2
19...	1325	134	231	7.9	23.0	2.0	10.1	119	16	20	20
29...	0850	125	214	7.8	23.5	2.4	8.0	96	--	170	110
AUG											
02...	1320	142	232	8.0	24.5	1.9	9.4	113	10	350	49
11...	1000	130	243	7.8	21.0	1.1	8.8	100	--	920	110
16...	1210	120	247	7.8	22.0	1.2	9.6	110	13	170	12
23...	1315	96	215	7.8	23.5	1.1	9.7	114	--	540	13
SEP											
01...	1045	97	261	7.9	20.0	.70	8.7	97	6	350	33
08...	0935	70	266	8.0	20.0	1.0	7.7	86	--	79	33
13...	1145	71	264	7.8	19.0	.50	9.3	101	6	1600	17
22...	0950	57	267	7.7	17.5	.80	8.3	88	--	1600	49
26...	1430	31	284	7.7	21.0	.50	10.5	119	12	110	20

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
04...	60	160	43	--	--	--	--	--	--	--
13...	19	B16	90	.55	--	--	--	--	--	--
17...	B3	B6	<3	--	--	--	--	--	--	--
27...	28	31	23	.56	--	--	--	--	--	--
JUN										
03...	43	60	240	--	--	--	--	--	--	--
07...	50	59	240	.14	--	--	--	--	--	--
17...	70	67	23	--	--	--	--	--	--	--
21...	34	40	93	.06	.08	.01	.00	.07	.08	.06
30...	33	38	20	--	--	--	--	--	--	--
JUL										
06...	31	54	800	.07	.09	.00	.00	.07	.09	.01
14...	22	28	<2	--	--	--	--	--	--	--
19...	26	25	<2	.07	.08	.00	.00	.07	.08	.00
29...	48	66	4	--	--	--	--	--	--	--
AUG										
02...	42	46	46	.03	.07	.00	.00	.03	.07	.00
11...	24	38	110	--	--	--	--	--	--	--
16...	20	28	13	.03	.05	.00	.00	.03	.05	.00
23...	B12	B13	540	--	--	--	--	--	--	--
SEP										
01...	14	33	350	.06	.05	.01	.00	.07	.05	.00
08...	25	60	79	--	--	--	--	--	--	--
13...	17	55	23	.12	.05	.01	.00	.13	.05	.00
22...	32	47	280	--	--	--	--	--	--	--
26...	B7	16	13	.38	.30	.01	.00	.39	.30	.00

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

RUSSIAN RIVER BASIN--Continued
11462690 RUSSIAN RIVER AT HOPLAND, CA--Continued

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
MAY										
04...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	.20	--	--	<.33	<1.0	--	--
17...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	<.20	--	--	<.33	<1.0	--	--
JUN										
03...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	.30	--	--	<.33	<1.0	--	--
17...	--	--	--	--	--	--	--	--	--	--
21...	.02	.02	.02	.08	.04	.15	.03	--	.01	.03
30...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	.00	.39	.08	.40	.08	.47	.00	--	.00	.00
14...	--	--	--	--	--	--	--	--	--	--
19...	.04	.07	.07	.07	.11	.14	.03	--	.01	.03
29...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	.03	.17	.07	.17	.10	.20	.00	--	.01	.03
11...	--	--	--	--	--	--	--	--	--	--
16...	.02	.10	.10	.10	.12	.13	.01	--	.01	.03
23...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	.02	.22	.13	.22	.15	.29	.01	--	.01	.03
08...	--	--	--	--	--	--	--	--	--	--
13...	.01	.18	.12	.18	.13	.31	.00	--	.01	.03
22...	--	--	--	--	--	--	--	--	--	--
26...	.00	.02	.02	.02	.02	.41	.01	--	.02	.06

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 13	1045	2.2	56.5	54.0	0.458	0.008	5459
June 7	1405	.9	--	--	.003	.001	--
July 6	0845	.4	58.5	57.5	.169	.068	5917
Aug. 2	1320	.6	55.5	54.5	.067	.051	14930
Sept. 1	1045	.3	38.0	37.0	.139	.026	7194
Sept. 26	1430	.5	35.7	35.3	.581	.038	688

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
June 3	22	--	--	0.000	0.000	--	Polyethylene strip
Sept. 8	29	13.9	9.06	.200	.173	24200	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11463150 RUSSIAN RIVER AT PRESTON, CA

LOCATION.--Lat 38°49'56", long 123°00'38", in NE¼ sec.6, T.11 N., R.10 W., Sonoma County, 150 ft (46 m) downstream from bridge on U.S. Highway 101, 0.4 mi (0.6 km) southeast of Preston, and 1.9 mi (3.1 km) northeast of Cloverdale.
DRAINAGE AREA.--519 mi^2 (1,344 km^2).
PERIOD OF RECORD.--Water Year 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY										
04...	1300	266	8.6	16.5	1.6	10.6	108	--	150	70
12...	1310	273	8.5	15.0	--	10.4	104	5	430	230
18...	1025	286	8.3	15.5	3.1	9.4	96	--	230	<30
26...	1335	262	--	17.0	3.0	10.0	104	9	930	30
JUN										
02...	1330	269	8.5	20.0	2.5	9.8	109	--	930	70
08...	1010	243	8.2	21.0	3.8	8.7	99	3	2400	90
16...	1340	248	8.4	21.0	2.4	9.9	113	--	930	<30
22...	1025	245	8.3	22.0	2.8	8.6	99	12	>24000	230
30...	1130	238	8.4	21.0	2.8	8.8	100	--	120	20
JUL										
06...	1135	242	8.4	20.0	2.7	9.3	103	12	200	200
14...	1030	243	8.4	21.0	2.2	8.7	99	--	<2	<2
20...	0950	242	8.1	22.0	2.5	8.3	95	9	490	20
28...	1305	276	8.4	23.0	2.2	9.1	107	--	350	33
AUG										
03...	1020	238	8.2	22.0	2.0	8.3	95	5	220	33
11...	0810	248	8.2	21.0	2.0	7.5	85	--	540	33
16...	1430	244	8.6	24.0	1.1	9.2	111	13	130	4
22...	1435	237	8.3	26.0	--	9.1	114	--	540	2
SEP										
01...	0835	273	8.4	20.0	1.2	7.8	87	3	180	140
07...	1425	270	8.4	25.0	.90	9.7	118	--	130	13
13...	1415	272	8.4	21.0	.50	10.0	114	4	220	2
21...	1450	259	8.4	21.5	1.5	10.5	123	--	920	13
27...	1000	296	8.2	19.0	.60	8.4	91	10	490	20

DATE	FECAL COLIFORM .7UM-MF (COL./ 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
04...	B8	--	4	--	--	--	--	--	--	--
12...	14	B12	9	.28	--	--	--	--	--	--
18...	B10	23	15	--	--	--	--	--	--	--
26...	23	31	93	.23	--	--	--	--	--	--
JUN										
02...	24	14	43	--	--	--	--	--	--	--
08...	40	53	93	.10	--	--	--	--	--	--
16...	17	25	43	--	--	--	--	--	--	--
22...	--	38	240	.03	.06	.01	.00	.04	.06	.00
30...	63	26	20	--	--	--	--	--	--	--
JUL										
06...	19	21	500	.01	.01	.00	.00	.01	.01	.02
14...	19	21	<2	--	--	--	--	--	--	--
20...	25	--	490	.02	.03	.01	.00	.03	.03	.00
28...	B11	15	33	--	--	--	--	--	--	--
AUG										
03...	B140	90	23	.00	.03	.00	.01	.00	.04	.00
11...	25	40	110	--	--	--	--	--	--	--
16...	B3	31	<2	.00	.01	.00	.00	.00	.01	.00
22...	B8	21	27	--	--	--	--	--	--	--
SEP										
01...	12	24	1600	.01	.01	.01	.00	.02	.01	.01
07...	B7	20	170	--	--	--	--	--	--	--
13...	B2	30	49	.04	.00	.01	.00	.05	.00	.01
21...	B40	44	1600	--	--	--	--	--	--	--
27...	18	22	5	.07	.09	.00	.00	.07	.09	.01

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

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11463150 RUSSIAN RIVER AT PRESTON, CA--Continued

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
MAY										
04...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	.20	--	--	<.33	<1.0	--	--
18...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	<.20	--	--	<.33	<1.0	--	--
JUN										
02...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	<.20	--	--	<.33	<1.0	--	--
16...	--	--	--	--	--	--	--	--	--	--
22...	.02	.19	.09	.19	.11	.23	.02	--	.01	.03
30...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	.00	.20	.04	.22	.04	.23	.00	--	.01	.03
14...	--	--	--	--	--	--	--	--	--	--
20...	.01	.13	.08	.13	.09	.16	.01	--	.01	.03
28...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	.02	.22	.06	.22	.08	.22	.02	--	.01	.03
11...	--	--	--	--	--	--	--	--	--	--
16...	.01	.70	.69	.70	.70	.70	.01	--	.01	.03
22...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	.03	.14	.15	.15	.18	.17	.01	--	.01	.03
07...	--	--	--	--	--	--	--	--	--	--
13...	.01	.28	.27	.29	.28	.34	.00	--	.01	.03
21...	--	--	--	--	--	--	--	--	--	--
27...	.00	.28	.15	.29	.15	.36	.02	--	.00	.00

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 12	1310	--	--	--	0.490	0.081	--
June 8	1010	1.2	--	--	.148	.041	--
July 6	1135	.5	60.5	59.5	.080	.037	12500
Aug. 3	1020	.6	56.5	55.0	.008	.031	187500
Sept. 1	0835	.4	34.3	33.0	.106	.004	12260
Sept. 27	1000	.3	37.7	36.7	.066	.011	15150

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
June 22	42	16.7	13.1	0.460	1.13	7826	Polyethylene strip
Sept. 27	48	20.6	17.9	.687	.195	3930	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11463210 BIG SULPHUR CREEK AT MOUTH, NEAR CLOVERDALE, CA

LOCATION.--Lat 38°49'23", long 123°00'12", in Rincon de Musalacon Grant, Sonoma County, 0.5 mi (0.8 km) upstream from mouth and 1.5 mi (2.4 km) northeast of Cloverdale.
DRAINAGE AREA.--85.7 mi² (222.0 km²).
PERIOD OF RECORD.--Water year 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)
MAY										
04...	1515	6.8	442	9.0	20.5	.50	11.4	127	--	440
12...	1420	9.6	410	8.8	16.5	--	11.6	118	4	430
18...	1120	3.8	419	8.7	14.0	.95	10.8	94	--	230
26...	1130	3.7	415	8.7	17.0	.60	10.5	109	8	40
JUN										
02...	1145	.75	403	9.0	22.0	1.0	11.7	134	--	430
08...	1115	.13	410	8.7	24.0	3.0	9.0	108	2	230
16...	1200	.05	413	8.7	22.0	4.0	8.5	98	--	750
22...	1200	2.5	425	8.8	25.0	.20	10.1	123	6	>24000
30...	1035	1.1	424	8.7	22.0	.10	9.4	108	--	70
JUL										
06...	1245	.89	419	8.8	24.5	.20	10.4	125	5	500
14...	0930	.71	424	8.4	22.0	.20	8.8	101	--	2
20...	1050	.60	428	8.4	24.5	.30	8.8	106	36	110
28...	1120	.44	441	8.4	24.0	.20	8.5	102	--	--
AUG										
03...	1120	.52	445	8.4	24.0	.40	8.7	105	8	--
10...	1410	.41	444	8.3	27.0	.60	9.4	119	--	--
17...	0915	.34	458	8.4	20.5	.30	7.7	86	7	--
23...	0850	.26	444	8.2	20.5	.50	7.0	78	--	--
31...	1400	.32	470	8.3	27.0	.20	9.3	118	6	--
SEP										
07...	1325	.23	477	8.2	27.0	.20	9.4	119	--	--
14...	0900	.28	477	8.3	19.0	.20	7.9	86	10	--
21...	1350	7.0	499	8.4	21.0	6.0	8.9	101	--	--
27...	0840	2.5	529	8.5	18.5	.80	9.3	99	8	490

DATE	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM
MAY										
04...	<30	20	63	240	--	--	--	--	--	--
12...	40	B11	70	930	210	36	40	26	13	12
18...	40	51	110	43	--	--	--	--	--	--
26...	<30	46	210	1100	200	35	37	25	14	13
JUN										
02...	230	34	140	460	--	--	--	--	--	--
08...	90	35	130	460	200	43	36	26	15	14
16...	30	41	B440	1100	--	--	--	--	--	--
22...	<30	36	71	460	200	46	36	26	16	15
30...	20	26	190	230	--	--	--	--	--	--
JUL										
06...	200	B12	B520	1700	200	33	36	26	15	14
14...	<2	B62	B1100	<2	--	--	--	--	--	--
20...	20	B13	--	2200	210	50	41	26	16	14
28...	--	B8	470	--	--	--	--	--	--	--
AUG										
03...	--	B6	1100	--	210	45	39	27	17	15
10...	--	11	1000	--	--	--	--	--	--	--
17...	--	B5	420	--	220	31	40	28	17	15
23...	--	17	470	--	--	--	--	--	--	--
31...	--	17	780	--	220	43	40	28	18	15
SEP										
07...	--	8	890	--	--	--	--	--	--	--
14...	--	B3	990	--	230	52	42	31	16	13
21...	--	B220	560	--	--	--	--	--	--	--
27...	20	45	130	9	250	84	45	33	16	12

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

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11463210 BIG SULPHUR CREEK AT MOUTH, NEAR CLOVERDALE, CA--Continued

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
MAY										
04...	--	--	--	--	--	--	--	--	--	--
12...	.4	1.4	190	9	170	53	3.5	.1	13	254
18...	--	--	--	--	--	--	--	--	--	--
26...	.4	1.2	180	18	160	60	3.3	.1	12	261
JUN										
02...	--	--	--	--	--	--	--	--	--	--
08...	.5	1.5	180	4	150	59	3.9	.1	19	255
16...	--	--	--	--	--	--	--	--	--	--
22...	.5	1.5	180	2	150	68	3.4	.1	19	264
30...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	.5	1.5	200	0	160	69	3.7	.1	19	270
14...	--	--	--	--	--	--	--	--	--	--
20...	.5	1.6	190	2	160	72	3.9	.1	22	280
28...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	.5	1.7	200	--	160	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
17...	.5	1.8	210	7	180	75	4.3	.1	23	301
23...	--	--	--	--	--	--	--	--	--	--
31...	.5	1.9	210	0	170	76	4.7	.1	23	297
SEP										
07...	--	--	--	--	--	--	--	--	--	--
14...	.5	1.7	220	0	180	79	4.8	.1	22	307
21...	--	--	--	--	--	--	--	--	--	--
27...	.4	1.8	200	0	160	100	4.7	.1	18	324

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)
MAY										
04...	--	--	--	--	--	--	--	--	--	--
12...	.35	6.58	2.3	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
26...	.35	2.61	1.7	--	--	--	--	1.5	--	--
JUN										
02...	--	--	--	--	--	--	--	--	--	--
08...	.35	.09	.66	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
22...	.36	1.78	.44	.42	.01	.00	.45	.42	.01	.02
30...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	.37	.65	.01	.01	.01	.00	.02	.01	.02	.00
14...	--	--	--	--	--	--	--	--	--	--
20...	.38	.45	.00	.02	.00	.00	.00	.02	.00	.01
28...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	.00	.00	.00	.01	.00	.01	.00	.01
10...	--	--	--	--	--	--	--	--	--	--
17...	.41	.28	.01	.01	.00	.00	.01	.01	.00	.02
23...	--	--	--	--	--	--	--	--	--	--
31...	.40	.26	.02	.07	.01	.00	.03	.07	.01	.03
SEP										
07...	--	--	--	--	--	--	--	--	--	--
14...	.42	.23	.00	.01	.01	.00	.01	.01	.00	.00
21...	--	--	--	--	--	--	--	--	--	--
27...	.44	2.19	1.3	1.2	.00	.00	1.3	1.2	.00	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11463210 BIG SULPHUR CREEK AT MOUTH, NEAR CLOVERDALE, CA--Continued

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)
MAY									
04...	--	--	--	--	--	--	--	--	--
12...	--	--	<.20	--	--	<.33	<1.0	--	--
18...	--	--	--	--	--	--	--	--	--
26...	--	--	<.20	--	--	<.33	<1.0	--	--
JUN									
02...	--	--	--	--	--	--	--	--	--
08...	--	--	<.20	--	--	<.33	<1.0	--	--
16...	--	--	--	--	--	--	--	--	--
22...	.14	.03	.15	.05	.60	.01	--	.02	.06
30...	--	--	--	--	--	--	--	--	--
JUL									
06...	.26	.03	.28	.03	.30	.00	--	.00	.00
14...	--	--	--	--	--	--	--	--	--
20...	.06	.01	.06	.02	.06	.01	--	.03	.09
28...	--	--	--	--	--	--	--	--	--
AUG									
03...	.44	.14	.44	.15	.44	.01	--	.02	.06
10...	--	--	--	--	--	--	--	--	--
17...	--	.12	--	.14	--	.02	--	.02	.06
23...	--	--	--	--	--	--	--	--	--
31...	.03	.01	.04	.04	.07	.03	--	.02	.06
SEP									
07...	--	--	--	--	--	--	--	--	--
14...	.00	.00	.00	.00	.01	.01	--	.01	.03
21...	--	--	--	--	--	--	--	--	--
27...	.11	.16	.11	.16	1.4	.02	--	.00	.00

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 12	1420	0.4	--	--	0.223	0.011	--
June 8	1115	1.0	--	--	.103	.333	--
July 6	1245	.4	36.3	35.7	.007	.011	85710
Aug. 3	1120	.8	--	--	.023	.003	--
Aug. 31	1400	.4	--	--	.010	.019	--
Sept. 27	0840	.4	35.0	34.0	.017	.006	58820

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Sept. 7	29	4.65	3.78	0.900	0.046	967	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11463400 RUSSIAN RIVER AT ASTI, CA

LOCATION.--Lat 38°45'48", long 122°57'58", in Rincon de Musalacon Grant, Sonoma County, 400 ft (122 m) downstream from bridge, 0.4 mi (0.6 km) east of Asti Post Office, 0.5 mi (0.8 km) downstream from Crocker Creek.
DRAINAGE AREA.--636 mi² (1,647 km²).
PERIOD OF RECORD.--Water year 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY											
05...	0955	94	299	8.3	15.0	1.5	9.7	97	--	390	40
12...	1135	96	309	8.2	15.0	--	10.8	108	4	430	<30
18...	1300	77	321	8.4	15.0	1.5	10.8	108	--	430	70
26...	1000	97	301	8.1	16.0	2.0	9.2	94	24	70	40
JUN											
02...	1005	92	307	8.2	17.0	1.8	10.0	104	--	930	40
08...	1340	113	277	8.6	23.5	3.2	11.3	136	1	290	<30
16...	1045	108	282	8.0	18.5	1.6	9.1	97	--	210	<30
22...	1415	113	267	8.7	26.5	1.3	10.7	134	6	11000	40
30...	0855	127	266	8.3	20.0	2.4	7.2	80	--	1100	20
JUL											
06...	1425	115	260	8.8	24.0	1.6	10.5	127	13	200	<200
14...	0810	104	269	7.7	19.5	1.9	7.2	80	--	<2	<2
20...	1240	107	263	8.4	24.5	1.3	9.7	117	10	310	<20
28...	0940	99	267	8.1	20.5	1.7	8.5	94	--	23	2
AUG											
03...	1330	120	258	8.5	24.5	1.4	10.3	124	25	920	170
10...	1240	126	265	8.4	23.0	1.2	10.1	119	--	350	49
17...	1105	107	270	8.4	22.0	1.2	9.2	106	8	23	5
22...	1300	94	262	8.3	24.5	1.2	10.5	127	--	140	2
31...	1240	102	281	8.5	24.5	.70	10.1	122	4	1600	79
SEP											
07...	1120	88	290	8.3	23.0	.80	9.2	108	--	220	33
14...	1030	65	300	8.1	20.0	.30	8.9	99	12	920	2
21...	1200	91	291	8.4	20.0	1.0	11.2	124	--	220	70
27...	1230	37	324	8.3	21.0	.20	10.4	118	0	210	20

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
05...	B5	B10	240	--	--	--	--	--	--	--
12...	B2	22	23	.43	--	--	--	--	--	--
18...	B7	26	15	--	--	--	--	--	--	--
26...	14	33	93	.21	--	--	--	--	--	--
JUN										
02...	11	17	43	--	--	--	--	--	--	--
08...	B5	32	93	<.10	--	--	--	--	--	--
16...	12	22	93	--	--	--	--	--	--	--
22...	10	12	240	.04	.02	.01	.00	.05	.02	.05
30...	B28	37	40	--	--	--	--	--	--	--
JUL										
06...	B2	B9	200	.01	.01	.00	.00	.01	.01	.00
14...	10	43	<2	--	--	--	--	--	--	--
20...	B3	--	20	.00	.02	.01	.00	.01	.02	.00
28...	7	30	220	--	--	--	--	--	--	--
AUG										
03...	9	20	17	.01	.00	.00	.05	.01	.01	.00
10...	B3	18	920	--	--	--	--	--	--	--
17...	B3	10	49	.01	.02	.01	.00	.02	.02	.00
22...	B5	12	920	--	--	--	--	--	--	--
31...	10	8	8	.00	.01	.01	.00	.01	.01	.01
SEP										
07...	6	B6	33	--	--	--	--	--	--	--
14...	6	16	280	.00	.01	.01	.00	.01	.01	.00
21...	B12	21	130	--	--	--	--	--	--	--
27...	B2	B5	7	.02	.01	.00	.00	.02	.01	.00

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11463400 RUSSIAN RIVER AT ASTI, CA--Continued

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
MAY										
05...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	<.20	--	--	<.33	<1.0	--	--
18...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	<.20	--	--	<.33	<1.0	--	--
JUN										
02...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	<.20	--	--	<.33	<1.0	--	--
16...	--	--	--	--	--	--	--	--	--	--
22...	.02	.07	.05	.12	.07	.17	.03	--	.01	.03
30...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	.00	.15	.02	.15	.02	.16	.00	--	.05	.15
14...	--	--	--	--	--	--	--	--	--	--
20...	.05	.14	.05	.14	.10	.15	.01	--	.02	.06
28...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	.01	.30	.10	.30	.11	.31	.02	--	.01	.03
10...	--	--	--	--	--	--	--	--	--	--
17...	.01	.54	.17	.54	.18	.56	.02	--	.02	.06
22...	--	--	--	--	--	--	--	--	--	--
31...	.03	.25	.14	.26	.17	.27	.02	--	.01	.03
SEP										
07...	--	--	--	--	--	--	--	--	--	--
14...	.00	.15	.03	.15	.03	.16	.00	--	.00	.00
21...	--	--	--	--	--	--	--	--	--	--
27...	.01	.30	.26	.30	.27	.32	.01	--	.00	.00

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 12	1135	0.6	--	--	0.000	0.000	--
June 8	1340	1.0	--	--	.362	.191	--
July 6	1425	2.8	40.3	39.7	.057	.036	10530
Aug. 3	1330	.3	54.0	52.5	.156	.023	9615
Aug. 31	1240	.4	--	--	.017	.008	--
Sept. 27	1230	.4	36.0	35.0	.095	.021	10530

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
June 2	22	--	--	0.500	0.603	--	Polyethylene strip
Sept. 7	29	65.7	52.8	.048	.048	268800	Polyethylené strip

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11463500 RUSSIAN RIVER AT GEYSERVILLE, CA

LOCATION.--Lat 38°42'40", long 122°53'32" in Tzabaco Grant, Sonoma County, 0.2 mi (0.3 km) downstream from bridge on State Highway 128 and 0.6 mi (1.0 km) northeast of Geyserville.
DRAINAGE AREA.--655 mi^2 (1,696 km^2).
PERIOD OF RECORD.--Water years 1911-13, 1977.
CHEMICAL ANALYSES: Water years 1911-13, 1977.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY											
05...	1115	88	310	8.5	15.0	1.0	12.8	128	--	2400	<30
12...	1015	93	309	8.4	14.5	--	10.2	100	6	230	<30
18...	1430	67	321	8.5	15.0	1.5	11.5	115	--	230	<30
25...	1410	87	304	8.7	18.0	2.1	11.6	123	13	90	<30
JUN											
02...	0820	73	321	8.1	15.5	2.7	8.0	82	--	150	40
08...	1515	90	293	8.8	24.5	1.5	11.1	134	2	750	30
16...	0920	86	288	8.0	18.0	3.2	7.3	78	--	930	40
23...	0925	95	283	8.2	20.5	4.9	7.5	83	6	930	90
29...	1405	121	273	8.6	24.0	3.6	9.6	116	--	500	<20
JUL											
07...	0900	98	278	8.0	19.5	3.3	8.0	89	7	2550	<20
13...	1305	91	279	8.3	22.0	1.0	9.7	111	--	80	<20
20...	1355	102	260	8.5	25.0	1.3	9.9	121	10	260	<20
27...	1510	78	276	--	26.0	1.1	9.7	121	--	49	49
AUG											
03...	1455	107	267	8.5	25.5	1.0	10.1	126	2	70	7
10...	1115	121	270	8.2	21.0	1.4	8.8	100	--	920	5
17...	1240	99	278	8.5	22.5	1.0	9.7	111	12	240	6
23...	1115	83	286	8.4	22.0	1.0	8.9	102	--	350	33
31...	1100	93	291	8.3	21.5	.80	8.6	99	4	280	26
SEP											
07...	1020	73	295	8.2	20.5	1.1	8.1	90	--	920	46
14...	1200	56	300	8.1	20.5	.50	9.0	100	12	540	22
21...	1050	90	304	8.2	19.0	1.8	9.5	103	--	>2400	49
27...	1340	29	313	8.3	21.0	.70	9.5	108	10	210	20

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
05...	B1	B6	240	--	--	--	--	--	--	--
12...	B3	21	14	.20	--	--	--	--	--	--
18...	15	22	>2400	--	--	--	--	--	--	--
25...	B2	B7	<3	<.10	--	--	--	--	--	--
JUN										
02...	32	28	43	--	--	--	--	--	--	--
08...	33	B10	21	<.10	--	--	--	--	--	--
16...	25	24	240	--	--	--	--	--	--	--
23...	29	37	460	.03	.02	.01	.00	.04	.02	.08
29...	B9	B4	<20	--	--	--	--	--	--	--
JUL										
07...	B9	12	1800	.01	.01	.00	.00	.01	.01	.00
13...	9	9	50	--	--	--	--	--	--	--
20...	B2	--	790	.00	.01	.01	.00	.01	.01	.00
27...	<1	B5	170	--	--	--	--	--	--	--
AUG										
03...	B3	9	2	.00	.02	.00	.00	.00	.02	.00
10...	8	9	170	--	--	--	--	--	--	--
17...	B2	7	49	.01	.01	.00	.00	.01	.01	.00
23...	B6	7	920	--	--	--	--	--	--	--
31...	12	9	130	.00	.01	.01	.00	.01	.01	.01
SEP										
07...	B22	11	11	--	--	--	--	--	--	--
14...	9	18	920	.00	.01	.01	.00	.01	.01	.00
21...	19	55	1600	--	--	--	--	--	--	--
27...	B8	9	4	.01	.02	.00	.00	.01	.02	.00

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11463500 RUSSIAN RIVER AT GEYSERVILLE, CA--Continued

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
MAY										
05...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	<.20	--	--	<.33	<1.0	--	--
18...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	<.20	--	--	<.33	<1.0	--	--
JUN										
02...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	<.20	--	--	<.33	<1.0	--	--
16...	--	--	--	--	--	--	--	--	--	--
23...	.10	.14	.01	.22	.11	.26	.05	--	.00	.00
29...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	.00	.50	.15	.50	.15	.51	.01	--	.01	.03
13...	--	--	--	--	--	--	--	--	--	--
20...	.02	.09	.09	.09	.11	.10	.02	--	.02	.06
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	.00	.08	.10	.08	.10	.08	.00	--	.01	.03
10...	--	--	--	--	--	--	--	--	--	--
17...	.04	.07	.03	.07	.07	.08	.02	--	.06	.18
23...	--	--	--	--	--	--	--	--	--	--
31...	.02	.30	.06	.31	.08	.32	.02	--	.01	.03
SEP										
07...	--	--	--	--	--	--	--	--	--	--
14...	.00	.06	.08	.06	.08	.07	.00	--	.00	.00
21...	--	--	--	--	--	--	--	--	--	--
27...	.00	.07	.11	.07	.11	.08	.02	--	.00	.00

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 12	1015	0.6	--	--	0.707	0.259	--
June 8	1515	.9	--	--	.029	.130	--
July 7	0900	1.1	61.5	60.0	.146	.084	10270
Aug. 3	1455	.7	60.5	58.5	.002	.003	1000000
Aug. 31	1100	.3	--	--	.051	.015	--
Sept. 27	1340	.4	36.3	34.7	.114	.045	14040

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
June 2	22	25.2	17.1	0.500	0.195	16200	Polyethylene strip
Sept. 7	29	31.7	23.5	.709	.081	11570	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued

11463680 RUSSIAN RIVER AT ALEXANDER VALLEY ROAD BRIDGE, CA

LOCATION.--Lat 38°39'34", long 122°49'44", in Sotoyome Grant, Sonoma County, 250 ft (76 m) upstream from Alexander Valley Road bridge, 250 ft (76 m) downstream from small right-bank tributary, and 3.9 mi (6.3 km) northwest of Healdsburg.
DRAINAGE AREA.--684 mi^2 (1,772 km^2).
PERIOD OF RECORD.--Water year 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY											
05...	1330	89	307	8.5	18.0	1.0	10.3	111	--	90	<30
12...	0900	96	309	8.0	14.5	--	8.4	82	--	2400	40
19...	0910	80	316	8.0	15.0	.90	9.3	92	--	430	<30
25...	1300	91	305	8.3	18.5	1.1	10.0	105	9	90	<30
JUN											
01...	1405	72	297	8.3	23.0	.70	9.8	114	--	90	<30
09...	0825	95	299	7.8	19.0	2.3	6.8	73	3	430	40
15...	1435	78	300	8.3	23.0	2.1	10.2	119	--	90	<30
23...	1055	80	292	8.2	22.5	1.6	8.5	97	7	230	<30
29...	1245	115	283	8.4	23.0	2.0	9.4	109	--	200	<20
JUL											
07...	1045	101	285	8.0	21.0	2.0	8.6	97	0	3300	20
13...	1150	86	283	8.2	21.0	1.3	8.9	100	--	40	20
20...	1500	94	283	8.4	26.0	1.0	9.7	120	13	270	20
27...	1320	75	286	--	24.0	.70	9.2	110	--	540	9
AUG											
04...	0905	94	273	8.0	21.5	1.9	7.2	82	2	220	21
10...	0945	118	279	8.0	20.5	1.1	7.5	82	--	920	17
17...	1355	98	263	8.3	23.5	1.1	9.4	112	12	180	2
23...	1010	93	289	8.2	21.5	1.2	8.2	93	--	540	11
31...	0930	78	292	8.0	21.0	.60	7.6	85	1	1600	33
SEP											
07...	0910	76	299	8.0	20.0	.80	7.4	81	--	540	13
14...	1315	56	299	8.0	22.0	.30	9.6	109	12	79	5
21...	0945	98	300	8.0	19.5	1.4	8.2	90	--	920	46
27...	1500	40	303	8.1	22.0	.60	10.5	119	9	220	20

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
05...	B1	B6	240	--	--	--	--	--	--	--
12...	17	20	240	.10	--	--	--	--	--	--
19...	B1	93	43	--	--	--	--	--	--	--
25...	B4	25	4	<.10	--	--	--	--	--	--
JUN										
01...	B2	B12	4	--	--	--	--	--	--	--
09...	22	B150	>2400	<.10	--	--	--	--	--	--
15...	B4	B17	9	--	--	--	--	--	--	--
23...	22	37	36	.03	.04	.00	.00	.03	.04	.03
29...	B6	28	20	--	--	--	--	--	--	--
JUL										
07...	9	35	70	.02	.02	.01	.00	.03	.02	.01
13...	B6	18	<20	--	--	--	--	--	--	--
20...	B2	--	270	.02	.04	.01	.00	.03	.04	.00
27...	B3	10	350	--	--	--	--	--	--	--
AUG										
04...	B23	B92	22	.01	.02	.01	.01	.02	.03	.00
10...	8	51	220	--	--	--	--	--	--	--
17...	B3	10	31	.01	.02	.00	.00	.01	.02	.00
23...	8	33	920	--	--	--	--	--	--	--
31...	9	35	280	.02	.05	.01	.00	.03	.05	.01
SEP										
07...	B4	27	49	--	--	--	--	--	--	--
14...	B3	12	110	.03	.02	.01	.00	.04	.02	.00
21...	24	B120	540	--	--	--	--	--	--	--
27...	13	20	4	.07	.08	.00	.00	.07	.08	.02

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11463680 RUSSIAN RIVER AT ALEXANDER VALLEY ROAD BRIDGE, CA--Continued

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
MAY										
05...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	<.20	--	--	<.33	<1.0	--	--
19...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	<.20	--	--	<.33	<1.0	--	--
JUN										
01...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	<.20	--	--	<.33	<1.0	--	--
15...	--	--	--	--	--	--	--	--	--	--
23...	.01	.09	.07	.12	.08	.15	.03	--	.00	.00
29...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	.00	.03	.03	.04	.03	.07	.01	--	.01	.03
13...	--	--	--	--	--	--	--	--	--	--
20...	.01	.13	.11	.13	.12	.16	.01	--	.02	.06
27...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	.00	.10	.00	.10	.00	.12	.01	--	.05	.15
10...	--	--	--	--	--	--	--	--	--	--
17...	.02	.28	.05	.28	.07	.29	.04	--	.01	.03
23...	--	--	--	--	--	--	--	--	--	--
31...	.01	.23	.12	.24	.13	.27	.02	--	.01	.03
SEP										
07...	--	--	--	--	--	--	--	--	--	--
14...	.00	.08	.04	.08	.04	.12	.00	--	.01	.03
21...	--	--	--	--	--	--	--	--	--	--
27...	.00	.10	.00	.12	.00	.19	.02	--	.00	.00

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 12	0900	0.4	--	--	0.370	0.049	--
June 9	0825	1.0	--	--	.108	.040	--
July 7	1045	.5	61.0	60.0	.111	.050	9009
Aug. 4	0905	.4	61.5	59.5	.005	.007	400000
Aug. 31	0930	.4	--	--	.013	.018	--
Sept. 27	1500	.5	35.3	34.0	.055	.013	23640

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
June 23	43	7.88	5.34	0.600	0.218	4238	Polyethylene strip
Sept. 7	29	30.7	21.5	1.90	.014	4842	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11464010 RUSSIAN RIVER AT HEALDSBURG, CA

LOCATION.--Lat 38°35'54", long 122°51'23", in Sotoyome Grant, Sonoma County, 0.4 mi (0.6 km) downstream from bridge on U.S. Highway 101, 0.9 mi (1.4 km) upstream from Dry Creek, and 1.0 mi (1.6 km) south of Healdsburg.
DRAINAGE AREA.--794 mi^2 (2,056 km^2).
PERIOD OF RECORD.--Water year 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY											
05...	1515	28	316	8.7	19.0	1.2	9.7	104	--	430	<30
11...	1420	107	307	8.4	16.0	3.0	9.7	98	45	430	40
19...	1050	75	322	8.5	18.0	1.6	9.4	99	--	2400	30
25...	1100	81	325	8.4	19.0	1.6	9.2	99	18	200	<30
JUN											
01...	1230	66	319	8.5	23.5	1.1	8.8	105	--	230	<30
09...	1050	68	315	8.4	23.5	1.6	8.0	95	7	150	<30
15...	1325	71	307	8.3	22.0	--	8.9	101	--	150	40
23...	1245	59	309	8.6	26.0	1.2	8.4	104	7	230	<30
28...	1045	106	298	8.5	24.0	2.1	8.4	100	--	700	50
JUL											
07...	1300	100	296	8.4	24.0	1.7	8.6	102	0	110	20
13...	1000	76	296	8.1	24.0	1.7	8.1	96	--	170	<20
21...	0915	76	296	8.2	24.0	1.7	7.9	94	8	40	40
27...	1112	61	293	--	24.5	1.1	8.4	100	--	33	33
AUG											
04...	1120	76	292	8.2	25.0	2.5	8.1	98	4	110	18
10...	0830	100	289	8.3	23.0	1.1	8.0	93	--	240	49
17...	1510	85	296	8.4	24.0	1.5	8.6	102	10	170	2
23...	0845	76	292	8.5	24.0	1.5	7.8	93	--	540	70
31...	0750	76	296	8.3	24.0	1.2	7.8	93	0	130	17
SEP											
07...	0755	63	298	8.3	24.0	1.5	7.6	90	--	240	33
14...	1430	49	295	8.4	24.0	.80	8.9	106	7	49	2
21...	0830	102	292	8.3	20.5	1.3	8.7	96	--	1600	49
28...	0845	44	308	8.3	21.0	1.4	8.1	91	8	230	20

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
05...	B10	89	43	--	--	--	--	--	--	--
11...	18	23	20	<.10	--	--	--	--	--	--
19...	17	25	75	--	--	--	--	--	--	--
25...	19	B14	20	<.10	--	--	--	--	--	--
JUN										
01...	14	88	14	--	--	--	--	--	--	--
09...	16	28	240	<.10	--	--	--	--	--	--
15...	15	10	15	--	--	--	--	--	--	--
23...	B9	17	43	.01	.01	.00	.00	.01	.01	.06
28...	15	14	2400	--	--	--	--	--	--	--
JUL										
07...	10	26	<20	.00	.01	.01	.00	.01	.01	.00
13...	11	28	20	--	--	--	--	--	--	--
21...	13	28	11	.00	.01	.01	.00	.01	.01	.00
27...	10	27	220	--	--	--	--	--	--	--
AUG										
04...	10	35	5	.00	.02	.01	.01	.01	.03	.00
10...	24	41	79	--	--	--	--	--	--	--
17...	B3	41	<2	.01	.00	.00	.00	.01	.00	.00
23...	15	55	170	--	--	--	--	--	--	--
31...	11	47	170	.00	.01	.01	.00	.01	.01	.01
SEP										
07...	B33	B260	46	--	--	--	--	--	--	--
14...	B3	B110	240	.00	.05	.01	.00	.01	.05	.00
21...	B39	55	79	--	--	--	--	--	--	--
28...	13	100	70	.00	.03	.01	.00	.01	.03	.01

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11464010 RUSSIAN RIVER AT HEALDSBURG, CA--Continued

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
MAY										
05...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	<.20	--	--	.73	2.2	--	--
19...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	<.20	--	--	<.33	<1.0	--	--
JUN										
01...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	<.20	--	--	<.33	<1.0	--	--
15...	--	--	--	--	--	--	--	--	--	--
23...	.01	.03	.10	.09	.11	.10	.03	--	.00	.00
28...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	.01	.12	.06	.12	.07	.13	.01	--	.04	.12
13...	--	--	--	--	--	--	--	--	--	--
21...	.03	.07	.00	.07	.00	.08	.01	--	.02	.06
27...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	.00	.00	.00	.00	.00	.01	.02	--	.06	.18
10...	--	--	--	--	--	--	--	--	--	--
17...	.02	.10	.00	.10	.00	.11	.01	--	.01	.03
23...	--	--	--	--	--	--	--	--	--	--
31...	.01	.07	.00	.08	.00	.09	.02	--	.01	.03
SEP										
07...	--	--	--	--	--	--	--	--	--	--
14...	.00	.05	.00	.05	.00	.06	.01	--	.01	.03
21...	--	--	--	--	--	--	--	--	--	--
28...	.00	.04	.02	.05	.02	.06	.02	--	.02	.06

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 11	1420	--	58.0	55.0	0.013	0.004	230800
June 9	1050	1.4	--	--	.046	.011	--
July 7	1300	1.8	40.0	39.0	.086	.017	11630
Aug. 4	1120	.5	60.0	59.0	.000	.001	--
Aug. 31	0750	.3	--	--	.004	.001	--
Sept. 28	0845	.5	37.3	36.0	.372	.022	3495

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
June 1	22	--	--	0.100	0.059	--	Polyethylene strip
Sept. 7	29	38.7	28.7	.000	.009	--	Polyethylene strip

DRY CREEK NEAR ASTI, CA

LOCATION.--Lat 38°43'46", long 123°02'17", in SE¼NE¼ sec.11, T.10 N., R.11 W., Sonoma County, at upstream side of Rockpile Road bridge, 4.1 mi (6.6 km) southwest of Asti.
DRAINAGE AREA.--92.3 mi^2 (239.1 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1974 to current year.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
JAN											
04...	1050	34	256	7.8	6.0	4	11.2	92	110	3	24
MAR											
17...	1000	51	246	7.4	9.5	3	11.8	104	110	12	24
MAY											
17...	0930	3.1	281	8.4	15.0	0	11.6	116	120	0	28

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
DRY CREEK NEAR ASTI, CA--Continued

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
JAN 04...	11	15	24	.6	.8	130	0	100	21	8.0	.2
MAR 17...	11	14	22	.6	.8	120	0	100	22	6.7	.1
MAY 17...	13	17	23	.7	.8	150	0	120	26	9.0	.2

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
JAN 04...	12	159	.22	14.7	.37	.37	.02	.02	.14	.14	.16
MAR 17...	11	150	.20	20.7	.01	.01	.00	.00	.58	.25	.58
MAY 17...	6.9	176	.24	1.47	.01	.01	.00	.03	.14	.07	.14

DATE	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
JAN 04...	.00	.16	.53	.03	.01	.03	3	3	2	830	<10
MAR 17...	.33	.25	.59	.02	.03	.09	1	0	2	680	<10
MAY 17...	.04	.10	.15	.01	.02	.06	0	0	4	1000	<10

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
JAN 04...	0	<1	0	0	32	<10	7	16	20	9	0
MAR 17...	0	<1	0	0	26	<10	1	17	30	1	0
MAY 17...	1	<1	0	0	25	<10	0	15	10	<100	5

DATE	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN 04...	10	.0	.2	.9	10	10	24	2.4
MAR 17...	10	.2	.0	.1	0	0	30	2.1
MAY 17...	<10	.1	.0	.0	10	0	24	.8

WARM SPRINGS CREEK ABOVE LITTLE WARM SPRINGS CREEK, AT SKAGGS SPRINGS, CA

LOCATION.--Lat 38°41'42", long 123°01'39", in SW¼SE¼ sec.24, T.10 N., R.11 W., Sonoma County, 200 ft (61 m) upstream from Little Warm Springs Creek, 0.1 mi (0.2 km) northwest of Skaggs Springs.
DRAINAGE AREA.--30.7 mi² (79.5 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1974 to current year.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
JAN 04...	1005	8.9	226	7.8	4.5	20	12.2	95	110	12	24
MAR 17...	1000	13	226	7.3	8.5	7	9.1	79	99	9	23
MAY 17...	1015	.28	279	7.7	16.0	2	11.0	112	130	0	29

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
WARM SPRINGS CREEK ABOVE LITTLE WARM SPRINGS CREEK AT SKAGGS SPRINGS, CA--Continued

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
JAN 04...	11	10	17	.4	.8	120	0	98	21	5.9	.2
MAR 17...	10	10	18	.4	.6	110	0	93	20	4.9	.2
MAY 17...	14	21	26	.8	1.1	170	0	140	20	6.8	.2

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
JAN 04...	14	147	.20	3.53	.23	.23	.06	.01	.05	.11	.11
MAR 17...	13	136	.18	4.77	.06	.08	.00	.01	.04	.00	.04
MAY 17...	9.0	186	.25	.14	.03	.02	.00	.02	.00	.03	.00

DATE	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
JAN 04...	.00	.12	.34	.05	.01	.03	3	2	9	150	<10
MAR 17...	.04	.00	.10	.05	.02	.06	1	0	2	140	<10
MAY 17...	.00	.05	.03	.02	.01	.03	1	1	3	1000	<10

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
JAN 04...	0	<1	10	0	20	<10	1	14	40	8	0
MAR 17...	1	<1	0	0	11	<10	1	5	20	1	0
MAY 17...	1	<1	0	0	23	<10	0	13	20	<100	5

DATE	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN 04...	20	.2	.3	.9	10	0	22	2.5
MAR 17...	5	.4	.0	--	0	10	13	2.1
MAY 17...	<10	.1	.0	.0	8	3	25	1.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
LITTLE WARM SPRINGS CREEK AT SKAGGS SPRINGS, CA

LOCATION.--Lat 38°41'41", long 123°01'34", in SW¼SE¼ sec.24, T.10 N., R.11 W., Sonoma County, at downstream side of Skaggs Springs Road bridge at Skaggs Springs.
DRAINAGE AREA.--1.92 mi^2 (4.97 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1974 to current year.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
JAN 04...	0945	.34	1080	8.1	7.5	2	11.4	97	130	0	27
MAR 17...	0945	.44	825	7.9	10.5	4	10.8	98	130	0	27
MAY 17...	0945	.07	2010	7.8	15.5	1	10.0	101	120	0	26
SEP 29...	1245	.15	3040	8.4	22.0	20	--	--	130	0	31

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
JAN 04...	14	240	79	9.3	8.1	720	0	590	31	21	2.6
MAR 17...	14	160	73	6.2	5.4	490	0	400	30	16	1.6
MAY 17...	14	510	88	20	18	1670	0	1370	15	32	5.2
SEP 29...	13	770	91	29	21	1840	70	1580	26	51	8.7

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
JAN 04...	35	756	1.03	.69	.15	.15	.20	.17	.01	.06	.21
MAR 17...	26	536	.73	.64	.10	.10	.04	.07	.59	.14	.63
MAY 17...	66	1560	2.12	.29	.38	.41	.04	.05	.38	.34	.42
SEP 29...	93	2070	2.82	.84	.53	.55	.00	.01	.48	.36	.48

DATE	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)
JAN 04...	.00	.23	.36	.07	.08	.25	21	19	5	21000	<10
MAR 17...	.42	.21	.73	.07	.03	.09	11	13	3	14000	<10
MAY 17...	.03	.39	.80	.10	.14	.43	44	44	5	49000	<10
SEP 29...	.11	.37	1.0	.27	.23	.71	88	76	--	77000	<10

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)
JAN 04...	0	<1	0	0	23	<10	1	15	60	6	1
MAR 17...	0	<1	0	0	13	<10	0	10	30	2	0
MAY 17...	1	<1	0	0	3	<10	0	16	60	<100	4
SEP 29...	0	--	0	0	--	<10	1	--	120	4	1

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
LITTLE WARM SPRINGS CREEK AT SKAGGS SPRINGS, CA--Continued

DATE	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN								
04...	15	.5	.4	.5	0	10	35	2.0
MAR								
17...	10	.4	.0	.5	0	10	25	1.6
MAY								
17...	10	.4	.0	.2	10	5	35	1.2
SEP								
29...	--	.2	.0	--	10	10	--	--

11465400 RUSSIAN RIVER AT WOHLER BRIDGE, CA

LOCATION.--Lat 38°30'29", long 122°52'55", in Molinos Grant, Sonoma County, 200 ft (61 m) upstream from Wohler bridge, 0.5 mi (0.8 km) downstream from Porter Creek, and 1.2 mi (1.9 km) northeast of Mirabel Heights.
DRAINAGE AREA.--1,040 mi^2 (2,694 km^2).
PERIOD OF RECORD.--Water year 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY										
05...	1725	341	8.8	20.0	2.0	10.9	120	--	<30	<30
11...	1215	315	8.2	16.0	4.8	9.4	95	40	430	40
19...	1240	331	8.5	20.0	1.7	9.7	107	--	230	90
25...	0955	326	8.4	18.0	2.4	9.6	101	15	430	<30
JUN										
01...	1105	318	8.4	24.0	2.0	9.5	113	--	430	90
09...	1215	319	8.4	23.0	3.6	8.3	97	1	930	430
15...	1115	320	8.3	20.0	4.1	8.7	96	--	210	40
23...	1405	310	8.4	28.0	4.8	9.1	117	48	430	90
29...	0950	304	8.5	23.5	2.4	8.5	101	--	1100	<20
JUL										
07...	1440	289	8.5	27.0	2.6	9.3	116	0	110	20
13...	0905	300	8.2	23.0	2.3	8.6	100	--	50	20
21...	1050	295	8.5	24.5	2.6	9.3	111	6	<20	<20
27...	1005	293	--	24.0	2.0	9.2	110	--	20	20
AUG										
04...	1315	294	8.3	26.0	2.4	8.5	105	2	79	17
09...	1440	284	8.6	26.0	1.4	9.3	115	--	9200	90
18...	0815	295	8.5	22.5	1.3	8.3	95	9	350	170
22...	1535	288	8.9	27.0	1.1	10.7	134	--	1600	7
30...	1520	293	8.6	27.0	1.0	9.8	123	1	190	17
SEP										
06...	1425	284	8.6	28.0	1.0	10.1	129	--	350	70
15...	0850	305	8.4	20.5	1.8	8.4	92	10	1600	13
20...	1520	294	8.6	22.0	2.2	11.3	128	--	1600	170
28...	1130	316	8.3	20.5	1.0	8.5	93	9	1700	50

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11465400 RUSSIAN RIVER AT WOHLER BRIDGE, CA--Continued

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
05...	B4	46	23	--	--	--	--	--	--	--
11...	26	56	93	<.10	--	--	--	--	--	--
19...	B1	B6	<3	--	--	--	--	--	--	--
25...	B9	21	4	<.10	--	--	--	--	--	--
JUN										
01...	42	B12	9	--	--	--	--	--	--	--
09...	B180	B190	460	<.10	--	--	--	--	--	--
15...	19	70	460	--	--	--	--	--	--	--
23...	120	160	--	.00	.00	.01	.00	.00	.00	.06
29...	25	46	50	--	--	--	--	--	--	--
JUL										
07...	87	230	40	.00	.00	.01	.00	.00	.00	.01
13...	B6	30	20	--	--	--	--	--	--	--
21...	B12	B7	<2	.00	.01	.01	.00	.01	.01	.00
27...	B6	B9	490	--	--	--	--	--	--	--
AUG										
04...	B28	33	46	.01	.02	.01	.01	.02	.03	.00
09...	29	65	920	--	--	--	--	--	--	--
18...	B10	34	140	.00	.00	.00	.02	.00	.02	.01
22...	12	28	350	--	--	--	--	--	--	--
30...	18	B6	33	.00	.01	.01	.00	.01	.01	.01
SEP										
06...	24	13	16	--	--	--	--	--	--	--
15...	B3	14	49	.00	.00	.01	.00	.01	.00	.00
20...	14	23	17	--	--	--	--	--	--	--
28...	B5	16	50	.00	.03	.01	.00	.01	.03	.00

DATE	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)
MAY										
05...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	<.20	--	--	<.33	<1.0	--	--
19...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	<.20	--	--	<.33	<1.0	--	--
JUN										
01...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	<.20	--	--	<.33	<1.0	--	--
15...	--	--	--	--	--	--	--	--	--	--
23...	.09	.13	.03	.19	.12	.19	.05	--	.00	.00
29...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	.00	.00	.00	.00	.00	.00	.01	--	.02	.06
13...	--	--	--	--	--	--	--	--	--	--
21...	.01	.10	.05	.10	.06	.11	.02	--	.02	.06
27...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	.00	.29	.00	.29	.00	.31	.01	--	.05	.15
09...	--	--	--	--	--	--	--	--	--	--
18...	.05	.08	.02	.09	.07	.09	.00	--	.01	.03
22...	--	--	--	--	--	--	--	--	--	--
30...	.01	.24	.10	.25	.11	.26	.02	--	.01	.03
SEP										
06...	--	--	--	--	--	--	--	--	--	--
15...	.02	.17	.00	.17	.02	.18	.00	--	.03	.09
20...	--	--	--	--	--	--	--	--	--	--
28...	.00	.05	.16	.05	.16	.06	.01	--	.01	.03

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 11	1215	--	108	105	0.290	0.577	10340
June 9	1215	1.1	--	--	.205	.043	--
July 7	1440	2.4	59.5	58.0	.012	.014	125000
Aug. 4	1315	1.1	--	--	.001	.002	--
Aug. 30	1520	.3	--	--	.032	.024	--
Sept. 28	1130	.3	101	97.0	.029	.008	137900

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
May 25	15	35.0	29.1	0.069	0.052	85500	Polyethlylene strip
Sept. 28	51	11.7	10.0	.264	.059	6439	Polyethlylene strip

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11466800 MARK WEST CREEK NEAR MIRABEL HEIGHTS, CA

LOCATION.--Lat 38°29'39", long 122°51'08", in Molinos Grant, Sonoma County, 100 ft (30 m) downstream from county road bridge, 2.1 mi (3.4 km) east of Mirabel Heights, and 2.7 mi (4.3 km) upstream from mouth.
DRAINAGE AREA.--251 mi^2 (650 km^2).
PERIOD OF RECORD.--Water year 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)
MAY											
06...	0805	9.8	699	8.1	14.5	45	7.2	70	--	--	150
11...	1100	12	510	8.1	16.0	36	10.4	105	--	60	4600
19...	1330	7.6	572	9.6	23.0	56	21.0	244	--	--	930
25...	0850	4.4	610	9.4	16.0	49	9.3	94	--	78	11000
JUN											
01...	1000	2.6	560	8.9	19.5	22	6.8	75	--	--	930
09...	1330	1.3	633	8.3	19.0	30	5.9	63	--	35	--
15...	1015	2.3	696	8.0	18.0	26	5.6	59	--	--	11000
23...	1455	.51	771	8.4	28.0	25	6.7	86	50	--	1500
29...	0845	.47	777	8.3	20.0	33	4.4	48	--	--	11000
JUL											
07...	1530	.44	816	8.2	27.0	35	6.4	80	44	--	1200
13...	0815	.15	814	7.9	19.0	22	3.3	35	--	--	4900
21...	1135	.55	742	8.1	22.0	23	4.6	52	38	--	170
27...	0900	.80	870	--	20.5	10	4.0	44	--	--	3500
AUG											
04...	1435	.00	920	8.5	29.0	4.0	9.0	117	34	--	<2
SEP											
20...	1425	21	508	7.5	21.0	8.6	3.5	39	--	--	350
28...	1005	2.4	638	7.8	19.5	2.8	4.3	47	34	--	5400

DATE	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY											
06...	70	1200	1500	>2400	--	--	--	--	--	--	--
11...	430	890	B1600	1100	3.1	--	--	--	--	--	--
19...	430	700	4000	240	--	--	--	--	--	--	--
25...	930	1000	5800	>2400	.40	--	--	--	--	--	--
JUN											
01...	230	360	620	--	--	--	--	--	--	--	--
09...	--	780	950	290	<.10	--	--	--	--	--	--
15...	750	420	710	>2400	--	--	--	--	--	--	--
23...	1500	300	B190	--	.01	.03	.03	.01	.04	.04	.17
29...	200	120	160	170	--	--	--	--	--	--	--
JUL											
07...	600	B45	240	--	.00	.03	.01	.00	.01	.03	.02
13...	600	49	240	--	--	--	--	--	--	--	--
21...	70	72	180	<2	.02	.02	.02	.00	.04	.02	.04
27...	110	96	960	340	--	--	--	--	--	--	--
AUG											
04...	<2	1	<5	<2	.00	.03	.01	.00	.00	.03	.01
SEP											
20...	350	B16000	>1000	>2400	--	--	--	--	--	--	--
28...	80	310	1300	9200	.03	.05	.06	.05	.09	.10	.17

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

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11466800 MARK WEST CREEK NEAR MIRABEL HEIGHTS, CA--Continued

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
MAY										
06...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	2.1	--	--	1.1	3.2	--	--
19...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	3.9	--	--	1.4	4.4	--	--
JUN										
01...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	1.5	--	--	.66	2.0	--	--
15...	--	--	--	--	--	--	--	--	--	--
23...	.17	1.2	.67	1.4	.84	1.4	3.0	--	2.5	7.7
29...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	.05	1.8	.84	1.8	.89	1.8	2.2	--	1.8	5.5
13...	--	--	--	--	--	--	--	--	--	--
21...	.04	.96	.59	1.0	.63	1.0	1.8	--	1.1	3.4
27...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	.00	1.5	.80	1.5	.80	1.5	4.1	--	1.1	3.4
SEP										
20...	--	--	--	--	--	--	--	--	--	--
28...	.17	1.1	.74	1.3	.91	1.4	3.5	--	1.0	3.1

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 11	1100	--	465	441	0.540	1.34	44440
June 9	1330	13	--	--	4.31	2.00	--
July 7	1530	12	532	508	4.50	1.37	5333
Aug. 4	1435	6.8	123	118	.072	.024	69440
Sept. 28	1005	9.9	113	107	8.72	.863	688

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
June 1	22	--	--	0.200	0.095	--	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11466850 RUSSIAN RIVER AT MIRABEL HEIGHTS, CA

LOCATION.--Lat 38°29'44", long 122°53'43", in Molinos Grant, Sonoma County, from left bank, 0.2 mi (0.3 km) downstream from Mark West Creek, 0.3 mi (0.5 km) northwest of Mirabel Heights.
DRAINAGE AREA.--1,296 mi^2 (3,357 km^2).
PERIOD OF RECORD.--Water year 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY											
06...	0930	.58	553	9.1	16.5	28	18.7	189	--	70	70
11...	0950	84	345	8.2	16.0	9.3	9.5	96	60	4600	430
19...	1500	49	336	8.9	21.0	6.4	13.2	148	--	390	30
24...	1440	37	329	8.5	22.0	2.6	9.8	111	20	90	<30
JUN											
01...	0850	29	230	8.5	21.5	3.6	7.9	90	--	430	<30
09...	1445	13	324	8.4	24.0	2.6	8.1	96	7	430	--
15...	0830	34	338	8.1	19.5	--	8.0	88	--	150	<30
24...	0810	17	312	8.3	23.0	3.0	6.8	79	7	210	70
28...	1440	39	309	8.5	25.5	1.4	8.8	109	--	170	50
JUL											
08...	0825	54	296	8.2	23.0	1.7	7.9	92	16	270	<20
12...	1230	20	301	8.1	24.0	1.8	8.2	102	--	<20	<20
21...	1255	31	299	8.4	25.5	1.8	8.8	109	5	20	20
26...	1435	23	295	8.3	26.5	1.8	8.9	110	--	130	<20
AUG											
05...	0805	30	294	8.1	23.0	1.9	7.0	81	2	240	23
09...	1325	57	294	8.2	24.0	1.0	10.0	119	--	330	20
18...	0900	52	294	8.2	22.5	1.7	7.6	86	8	170	11
22...	1435	36	294	8.4	26.0	1.9	8.8	109	--	49	13
30...	1415	32	307	8.0	25.5	2.3	8.2	101	2	1600	220
SEP											
06...	1315	25	305	8.0	24.5	1.2	8.3	99	--	920	21
15...	0945	17	300	8.1	20.0	1.2	7.6	84	9	49	49
20...	1315	97	471	8.0	20.0	9.9	7.8	86	--	1600	920
28...	1230	31	318	8.1	20.5	1.1	7.4	81	13	3500	220

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
06...	110	90	93	--	--	--	--	--	--	--
11...	B140	120	240	.10	--	--	--	--	--	--
19...	B8	B27	<3	--	--	--	--	--	--	--
24...	B5	B5	4	<.10	--	--	--	--	--	--
JUN										
01...	26	16	23	--	--	--	--	--	--	--
09...	34	84	93	<.10	--	--	--	--	--	--
15...	38	46	240	--	--	--	--	--	--	--
24...	47	55	150	.00	.01	.02	.00	.01	.01	.00
28...	14	15	92000	--	--	--	--	--	--	--
JUL										
08...	27	30	20	.00	.00	.01	.00	.01	.00	.02
12...	16	19	50	--	--	--	--	--	--	--
21...	20	31	<2	.00	.01	.01	.00	.01	.01	.00
26...	B6	32	<2	--	--	--	--	--	--	--
AUG										
05...	28	63	17	.00	.01	.01	.00	.00	.01	.00
09...	14	34	49	--	--	--	--	--	--	--
18...	24	44	27	.00	.03	.01	.00	.01	.03	.01
22...	18	19	280	--	--	--	--	--	--	--
30...	56	B130	1600	.00	.01	.01	.00	.01	.01	.01
SEP										
06...	24	25	23	--	--	--	--	--	--	--
15...	47	49	170	.00	.06	.01	.00	.01	.06	.00
20...	B670	830	1600	--	--	--	--	--	--	--
28...	B89	83	40	.01	.03	.01	.01	.02	.04	.02

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

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11466850 RUSSIAN RIVER AT MIRABEL HEIGHTS, CA--Continued

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
MAY										
06...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	.50	--	--	<.33	<1.0	--	--
19...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	.30	--	--	<.33	<1.0	--	--
JUN										
01...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	.20	--	--	<.33	<1.0	--	--
15...	--	--	--	--	--	--	--	--	--	--
24...	.00	.15	.00	.15	.00	.16	.03	--	.02	.06
28...	--	--	--	--	--	--	--	--	--	--
JUL										
08...	.01	.17	.14	.19	.15	.20	.01	--	.01	.03
12...	--	--	--	--	--	--	--	--	--	--
21...	.01	.11	.07	.11	.08	.12	.02	--	.02	.06
26...	--	--	--	--	--	--	--	--	--	--
AUG										
05...	.01	.00	.00	.00	.00	.00	.02	--	.01	.03
09...	--	--	--	--	--	--	--	--	--	--
18...	.01	.11	.16	.12	.17	.13	.01	--	.00	.00
22...	--	--	--	--	--	--	--	--	--	--
30...	.01	.09	.10	.10	.11	.11	.03	--	.02	.06
SEP										
06...	--	--	--	--	--	--	--	--	--	--
15...	.02	.10	.01	.10	.03	.11	.01	--	.04	.12
20...	--	--	--	--	--	--	--	--	--	--
28...	.01	.05	.13	.07	.14	.09	.10	--	.09	.28

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 11	0950	--	96.0	92.0	0.174	0.010	22990
June 9	1445	2.7	--	--	.297	.069	--
July 8	0825	4.3	62.5	61.0	.088	.031	17050
Aug. 5	0805	.8	52.0	51.0	.007	.005	142900
Aug. 30	1415	.3	51.0	49.5	.221	.924	6787
Sept. 28	1230	1.8	109	105	1.04	.435	3846

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
May 24	14	33.7	29.4	0.339	0.088	12680	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11467002 RUSSIAN RIVER AT JOHNSON'S BEACH, CA

LOCATION.--Lat 38°29'58", long 122°59'50", in NW¼NW¼ sec.32, T.8 N., R.10 W., Sonoma County, from left bank at Johnson's Beach, at Guerneville, 0.1 mi (0.2 km) downstream from Pocket Canyon.
DRAINAGE AREA.--1,353 mi² (3,504 km²).
PERIOD OF RECORD.--Water year 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY											
06...	1145	5.3	363	8.7	16.0	6.5	7.5	76	--	90	40
10...	1210	51	375	9.8	16.5	15	16.3	165	40	2400	90
20...	0955	46	325	9.1	19.0	6.2	10.1	109	--	930	90
24...	1130	26	342	8.3	19.0	4.2	7.6	82	33	230	<30
31...	1320	43	338	7.8	25.0	2.5	7.0	84	--	230	40
JUN											
10...	1040	17	328	7.7	19.0	3.0	4.2	45	2	90	40
14...	1215	3.2	316	7.7	20.0	2.0	7.9	87	--	1500	230
24...	1015	14	314	7.9	26.0	1.2	7.0	86	13	430	40
28...	1250	--	313	7.7	24.5	1.4	7.9	94	--	700	80
JUL											
08...	1050	--	294	8.1	24.0	1.0	8.1	96	12	330	80
12...	1100	--	293	7.9	23.5	1.5	8.2	102	--	80	20
22...	0900	--	298	8.2	23.5	1.8	8.2	98	10	20	20
26...	1245	--	295	8.4	24.5	1.7	8.9	106	--	230	80
AUG											
05...	1005	--	278	8.2	22.5	1.2	7.7	88	13	170	8
09...	1115	--	296	8.4	23.0	1.6	9.6	112	--	220	17
18...	1135	--	294	8.1	22.5	1.0	8.1	92	9	130	13
22...	1320	--	287	8.2	24.5	1.0	8.4	100	--	240	13
30...	1130	--	298	8.0	25.0	.70	8.0	96	1	350	130
SEP											
06...	1120	--	293	8.1	24.5	.70	8.5	101	--	1600	1600
15...	1130	--	292	8.2	21.0	.30	8.6	97	12	920	2
20...	1115	--	300	7.9	20.0	.60	8.5	93	--	920	110
30...	0850	--	327	7.8	18.0	.40	6.3	66	0	170	--

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
06...	33	160	460	--	--	--	--	--	--	--
10...	100	100	240	<.10	--	--	--	--	--	--
20...	45	160	23	--	--	--	--	--	--	--
24...	22	35	93	.18	--	--	--	--	--	--
31...	--	--	23	--	--	--	--	--	--	--
JUN										
10...	43	99	43	<.10	--	--	--	--	--	--
14...	B250	69	460	--	--	--	--	--	--	--
24...	44	28	240	.00	.01	.02	.00	.01	.01	.06
28...	22	B21	50	--	--	--	--	--	--	--
JUL										
08...	B8	14	40	.01	.00	.00	.00	.01	.00	.01
12...	20	18	<20	--	--	--	--	--	--	--
22...	28	19	90	.02	.01	.01	.00	.03	.01	.00
26...	B32	14	7	--	--	--	--	--	--	--
AUG										
05...	B6	53	4	.00	.00	.01	.00	.00	.00	.00
09...	16	24	49	--	--	--	--	--	--	--
18...	25	16	70	.01	.00	.00	.00	.01	.00	.01
22...	B8	12	7	--	--	--	--	--	--	--
30...	15	21	540	.00	.01	.01	.00	.01	.01	.01
SEP										
06...	>60	22	33	--	--	--	--	--	--	--
15...	B4	32	540	.01	.01	.01	.00	.02	.01	.00
20...	B39	46	79	--	--	--	--	--	--	--
30...	B5	16	<2	.00	.01	.00	.00	.00	.01	.00

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

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11467002 RUSSIAN RIVER AT JOHNSON'S BEACH, CA--Continued

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
MAY										
06...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	1.7	--	--	.69	2.1	--	--
20...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	.42	--	--	.33	1.0	--	--
31...	--	--	--	--	--	--	--	--	--	--
JUN										
10...	--	--	--	.30	--	--	<.33	<1.0	--	--
14...	--	--	--	--	--	--	--	--	--	--
24...	.00	.10	.15	.16	.15	.17	.29	--	.18	.55
28...	--	--	--	--	--	--	--	--	--	--
JUL										
08...	.00	.00	.00	.00	.00	.01	.11	--	.10	.31
12...	--	--	--	--	--	--	--	--	--	--
22...	.01	.09	.09	.09	.10	.12	.14	--	.12	.37
26...	--	--	--	--	--	--	--	--	--	--
AUG										
05...	.01	.20	.22	.20	.23	.20	.15	--	.11	.34
09...	--	--	--	--	--	--	--	--	--	--
18...	.00	.11	.10	.12	.10	.13	.06	--	.04	.12
22...	--	--	--	--	--	--	--	--	--	--
30...	.01	.21	.16	.22	.17	.23	.07	--	.05	.15
SEP										
06...	--	--	--	--	--	--	--	--	--	--
15...	.02	.03	.00	.03	.02	.05	.03	--	.04	.12
20...	--	--	--	--	--	--	--	--	--	--
30...	.00	.03	.06	.03	.06	.03	.09	--	.06	.18

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
June 10	1040	4.5	36.7	24.7	0.039	0.001	307700
July 8	1050	1.5	54.0	53.0	.044	.063	22730
Aug. 5	1005	3.4	--	--	.003	.005	--
Aug. 30	1130	2.7	51.0	49.5	.108	.001	13890
Sept. 30	0850	1.5	37.3	36.7	.159	.041	3774

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Sept. 20	43	2.05	1.42	0.965	0.242	653	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11467006 RUSSIAN RIVER AT VACATION BEACH, CA

LOCATION.--Lat 38°29'03", long 123°00'41", unsurveyed, Sonoma County, from right bank 0.4 mi (0.6 km) south of Vacation Beach, 1.1 mi (1.8 km) downstream from Hulburt Creek, and 1.5 mi (2.4 km) southwest of Guerneville.
DRAINAGE AREA.--1,371 (3,551 km²).
PERIOD OF RECORD.--Water year 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY											
06...	1345	6.5	344	9.0	20.0	7.0	10.2	112	--	<30	<30
10...	1040	50	390	9.4	15.5	15	12.3	124	20	4600	40
20...	1125	49	324	9.2	21.0	6.7	10.8	121	--	430	<30
24...	1020	21	328	8.5	19.0	5.8	9.2	99	16	430	<30
31...	1145	41	324	7.8	23.0	3.4	7.8	91	--	430	40
JUN											
10...	1255	13	311	8.3	20.5	4.1	7.2	79	3	230	<30
14...	1040	8.2	311	7.8	18.5	3.8	8.1	85	--	210	40
24...	1110	14	304	7.8	25.0	3.0	7.4	89	22	230	<30
28...	1100	13	320	8.1	23.0	3.1	7.2	84	--	1300	80
JUL											
08...	1210	48	299	8.2	24.0	1.9	8.2	98	10	170	<20
12...	1005	27	297	7.8	22.0	1.8	7.7	88	--	110	50
22...	0945	28	296	8.0	23.0	2.2	7.6	88	19	20	<20
26...	1100	24	296	8.0	23.0	2.4	7.3	85	--	700	50
AUG											
05...	1100	7.9	302	8.2	21.0	2.9	7.8	88	13	540	13
09...	1015	29	294	8.1	21.5	2.3	8.0	91	--	920	33
18...	1250	45	291	8.1	23.0	2.0	8.4	98	12	140	17
22...	1150	45	290	8.2	24.0	1.6	8.3	99	--	170	6
30...	1030	36	296	8.0	24.0	1.4	7.8	93	2	170	2
SEP											
06...	1020	31	297	8.0	23.0	1.5	7.9	92	--	140	23
15...	1300	14	299	8.2	20.0	1.5	8.8	97	11	110	5
20...	1010	54	297	8.0	19.5	1.9	8.3	91	--	1600	1600
30...	1020	38	333	7.8	18.5	1.3	7.7	81	0	790	--

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
06...	83	>1000	93	--	--	--	--	--	--	--
10...	43	89	1100	<.10	--	--	--	--	--	--
20...	88	B16	93	--	--	--	--	--	--	--
24...	86	87	43	<.01	--	--	--	--	--	--
31...	15	B15	23	--	--	--	--	--	--	--
JUN										
10...	13	87	23	<.10	--	--	--	--	--	--
14...	87	87	23	--	--	--	--	--	--	--
24...	12	27	210	.00	.01	.02	.00	.01	.01	.04
28...	B98	150	330	--	--	--	--	--	--	--
JUL										
08...	20	27	20	.00	.00	.00	.00	.00	.00	.00
12...	36	38	50	--	--	--	--	--	--	--
22...	88	26	20	.00	.00	.01	.00	.00	.00	.00
26...	88	38	<2	--	--	--	--	--	--	--
AUG										
05...	88	110	17	.00	.00	.01	.00	.01	.00	.00
09...	14	51	23	--	--	--	--	--	--	--
18...	11	10	21	.00	.00	.01	.01	.00	.01	.01
22...	85	28	350	--	--	--	--	--	--	--
30...	88	12	190	.00	.02	.01	.00	.01	.02	.01
SEP										
06...	B29	27	21	--	--	--	--	--	--	--
15...	85	22	14	.00	.01	.01	.00	.01	.01	.00
20...	B170	B230	540	--	--	--	--	--	--	--
30...	84	28	60	.00	.01	.00	.00	.00	.01	.00

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

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11467006 RUSSIAN RIVER AT VACATION BEACH, CA--Continued

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
MAY										
06...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	1.2	--	--	.69	2.1	--	--
20...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	.30	--	--	.66	2.0	--	--
31...	--	--	--	--	--	--	--	--	--	--
JUN										
10...	--	--	--	.40	--	--	<.33	<1.0	--	--
14...	--	--	--	--	--	--	--	--	--	--
24...	.01	.20	.16	.24	.17	.25	.30	--	.21	.64
28...	--	--	--	--	--	--	--	--	--	--
JUL										
08...	.01	.07	.08	.07	.09	.07	.16	--	.13	.40
12...	--	--	--	--	--	--	--	--	--	--
22...	.01	.30	.08	.30	.09	.30	.16	--	.15	.46
26...	--	--	--	--	--	--	--	--	--	--
AUG										
05...	.01	.30	.12	.30	.13	.31	.18	--	.14	.43
09...	--	--	--	--	--	--	--	--	--	--
18...	.03	--	--	--	--	--	.06	--	.06	.18
22...	--	--	--	--	--	--	--	--	--	--
30...	.01	.16	.09	.17	.10	.18	.08	--	.05	.15
SEP										
06...	--	--	--	--	--	--	--	--	--	--
15...	.02	.36	.01	.36	.03	.37	.07	--	.07	.21
20...	--	--	--	--	--	--	--	--	--	--
30...	.01	.11	.08	.11	.09	.11	.11	--	.07	.21

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (µg/L)	Chlorophyll b (µg/L)	Biomass pigment ratio
May 10	1040	--	--	--	1.25	0.169	--
June 10	1255	1.9	72.7	69.3	.282	.010	12060
July 8	1210	1.8	60.5	59.0	.057	.040	26320
Aug. 5	1100	2.8	107	106	.010	.001	100000
Aug. 30	1030	2.1	108	105	.619	.011	4847
Sept. 30	1020	1.6	39.3	37.7	.074	.014	21620

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
May 31	22	--	--	0.000	0.001	--	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11467210 RUSSIAN RIVER AT DUNCAN MILLS, CA

LOCATION.--Lat 38°27'13", long 123°02'54", in Bodega Grant, Sonoma County, from left bank 100 ft (30 m) downstream from bridge at Duncan Mills, 1.1 mi (1.8 km) downstream from Austin Creek, and 4.4 mi (7.1 km) southwest of Guerneville.
DRAINAGE AREA.--1,461 mi^2 (3,784 km^2).
PERIOD OF RECORD.--Water year 1977.
CHEMICAL ANALYSES: Water year 1977.
BIOLOGICAL DATA: Water year 1977.
COOPERATION.--Chemical-quality samples and biological data were collected by California Regional Water Quality Control Board, North Coast Region.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CONFIRMED COLIFORM (MPN)	FECAL COLIFORM (EC BROTH) (MPN)
MAY										
06...	1550	1820	9.0	18.0	7.0	9.3	98	--	40	40
10...	0920	793	8.4	15.5	4.7	8.0	81	12	230	<30
20...	1510	700	9.3	19.0	5.1	8.3	89	--	210	<30
24...	0915	460	8.9	18.0	6.0	6.4	67	22	230	<30
31...	1045	407	8.1	19.0	6.3	8.8	95	--	90	40
JUN										
10...	1415	410	9.2	18.5	5.8	7.0	74	17	230	40
14...	0930	414	8.1	18.0	4.5	8.0	84	--	430	<30
24...	1255	1380	8.1	22.5	6.8	8.9	101	20	430	90
28...	0935	756	8.4	21.0	3.9	8.1	91	--	700	20
JUL										
08...	1335	339	8.3	22.0	4.9	8.3	94	0	70	20
12...	0915	405	8.4	20.0	3.9	8.4	92	--	50	<20
22...	1100	1020	8.7	21.5	3.2	8.3	94	14	20	20
26...	0950	505	8.3	20.0	2.2	8.2	90	--	80	<20
AUG										
05...	1205	594	8.4	21.0	--	8.5	96	20	49	8
09...	0830	888	8.4	20.0	1.6	8.1	89	--	33	7
18...	1400	355	8.3	21.5	3.0	8.5	97	9	240	27
22...	1120	359	8.4	21.0	3.0	8.1	91	--	46	5
30...	0915	324	8.2	22.0	3.0	7.5	85	15	>2400	17
SEP										
06...	0930	540	8.4	21.0	2.7	8.1	91	--	130	2
15...	1400	655	8.3	20.0	2.2	8.5	93	16	540	2
20...	0920	334	8.0	19.5	3.2	7.5	82	--	>2400	350
30...	1215	333	8.2	18.5	1.6	8.7	92	0	1800	--

DATE	FECAL COLIFORM .7UM-MF (COL./ 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
MAY										
06...	B7	--	7	--	--	--	--	--	--	--
10...	15	19	4	<.10	--	--	--	--	--	--
20...	B3	B4	3	--	--	--	--	--	--	--
24...	16	B5	7	<.10	--	--	--	--	--	--
31...	31	25	43	--	--	--	--	--	--	--
JUN										
10...	38	B89	43	<.10	--	--	--	--	--	--
14...	53	37	43	--	--	--	--	--	--	--
24...	B140	B390	240	.01	.03	.02	.00	.03	.03	.07
28...	40	36	20	--	--	--	--	--	--	--
JUL										
08...	B11	22	20	.00	.00	.01	.00	.01	.00	.01
12...	10	13	<20	--	--	--	--	--	--	--
22...	B8	14	<20	.00	.01	.01	.00	.00	.01	.00
26...	10	B10	7	--	--	--	--	--	--	--
AUG										
05...	B6	42	13	.00	.00	.01	.00	.00	.00	.00
09...	B5	15	14	--	--	--	--	--	--	--
18...	20	37	17	.01	.00	.00	.01	.01	.01	.01
22...	B6	10	17	--	--	--	--	--	--	--
30...	12	B19	280	.00	.01	.01	.00	.01	.01	.01
SEP										
06...	B5	19	13	--	--	--	--	--	--	--
15...	B3	B7	49	.00	.01	.01	.00	.01	.01	.00
20...	B130	70	79	--	--	--	--	--	--	--
30...	B61	38	<2	.00	.01	.00	.00	.00	.01	.00

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

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN--Continued
11467210 RUSSIAN RIVER AT DUNCAN MILLS, CA--Continued

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
MAY										
06...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	.50	--	--	<.33	<1.0	--	--
20...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	.60	--	--	.73	2.2	--	--
31...	--	--	--	--	--	--	--	--	--	--
JUN										
10...	--	--	--	.40	--	--	.56	1.7	--	--
14...	--	--	--	--	--	--	--	--	--	--
24...	.01	.72	.27	.79	.28	.82	.33	--	.24	.74
28...	--	--	--	--	--	--	--	--	--	--
JUL										
08...	.00	.27	.01	.28	.01	.29	.34	--	.29	.89
12...	--	--	--	--	--	--	--	--	--	--
22...	.02	.43	.24	.43	.26	.43	.24	--	.21	.64
26...	--	--	--	--	--	--	--	--	--	--
AUG										
05...	.01	.41	.34	.41	.35	.41	.25	--	.21	.64
09...	--	--	--	--	--	--	--	--	--	--
18...	.03	.47	.07	.48	.10	.49	.21	--	.15	.46
22...	--	--	--	--	--	--	--	--	--	--
30...	.01	.24	.18	.25	.19	.26	.17	--	.11	.34
SEP										
06...	--	--	--	--	--	--	--	--	--	--
15...	.02	.01	.03	.01	.05	.02	.16	--	.12	.37
20...	--	--	--	--	--	--	--	--	--	--
30...	.01	.24	.11	.24	.12	.24	.10	--	.06	.18

PHYTOPLANKTON

Date	Time	Potential algal growth bottle test (mg/L)	Biomass (mg/L) Dry weight	Biomass (mg/L) Ash weight	Chlorophyll a (mg/L)	Chlorophyll b (mg/L)	Biomass pigment ratio
May 10	0920	--	--	--	0.036	0.021	--
June 10	1415	1.2	114	108	.405	.015	14810
July 8	1335	2.7	85.3	84.0	.071	.055	18310
Aug. 5	1205	3.7	116	114	.130	.001	15390
Aug. 30	0915	1.9	110	107	.265	.016	11320
Sept. 30	1215	1.8	50.5	49.0	2.78	.152	540

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Sept. 20	43	11.1	8.11	0.091	0.013	32860	Polyethylene strip

FORT ROSS CREEK BASIN
11467230 FORT ROSS CREEK AT FORT ROSS, CA

LOCATION.--Lat 38°31'04", long 123°14'26", in Muniz Grant, Sonoma County, 100 ft (30 m) upstream from culvert on State Highway 1, 0.2 mi (0.3 km) northeast of Fort Ross.
DRAINAGE AREA.--1.52 mi^2 (3.94 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 15...	1200	.01	537	7.9	13.5	10.0	220	0	57

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 15...	19	37	27	1.1	2.1	330	0	270	4.0

FORT ROSS CREEK BASIN--Continued
11467230 FORT ROSS CREEK AT FORT ROSS, CA--Continued

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG 15...	7.1	.2	11	301	.41	.00	.13	180	20

GUALALA RIVER BASIN
11467555 NORTH FORK GUALALA RIVER AT MOUTH, NEAR GUALALA, CA

LOCATION.--Lat 38°46'47", long 123°29'56", in SE¼SE¼ sec.23, T.11 N., R.15 W., Mendocino County, 500 ft (152 m) upstream from confluence with South Fork Gualala River, 1.8 mi (2.9 km) northeast of town of Gualala.
DRAINAGE AREA.--48.0 mi² (124.3 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
AUG 15...	1405	1.8	190	7.7	19.0	10.1	73	0	19

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG 15...	6.2	13	28	.7	1.2	110	0	89	6.8

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG 15...	5.1	.1	17	123	.17	.60	.01	90	40

ELK CREEK BASIN
11467710 ELK CREEK AT STATE HIGHWAY 1, NEAR ELK, CA

LOCATION.--Lat 39°06'08", long 123°42'02", in SW¼SW¼ sec.1, T.14 N., R.17 W., Mendocino County, at bridge on State Highway 1, 0.4 mi (0.6 km) upstream from mouth, 2 mi (3 km) southeast of town of Elk.
DRAINAGE AREA.--27.3 mi² (70.7 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
AUG 15...	1600	1.3	227	7.4	16.5	8.7	83	0	21

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG 15...	7.3	18	32	.9	1.5	120	0	95	5.6

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG 15...	9.6	.1	12	135	.18	.47	.01	210	50

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

GREENWOOD CREEK BASIN
11467750 GREENWOOD CREEK AT ELK, CA

LOCATION.--Lat 39°07'41", long 123°42'32", in SW¼SE¼ sec.26, T.15 N., R.17 W., Mendocino County, 800 ft (244 m) upstream from State Highway 1, 0.5 mi (0.8 km) upstream from mouth, and 0.4 mi (0.6 km) southeast of Elk.
DRAINAGE AREA.--24.3 mi² (62.9 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 15...	1640	.13	302	7.1	18.5	7.4	120	0	34

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 15...	9.5	18	24	.7	1.4	160	0	130	13

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 15...	10	.1	8.4	174	.24	.06	.01	220	50

NAVARRO RIVER BASIN
11467990 NORTH FORK NAVARRO RIVER NEAR NAVARRO, CA

LOCATION.--Lat 39°09'24", long 123°38'15", in NW¼SW¼ sec.16, T.15 N., R.16 W., Mendocino County, 200 ft (61 m) upstream from mouth and 5.1 mi (8.2 km) west of Navarro.
DRAINAGE AREA.--73.6 mi² (190.6 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 11...	1055	.35	266	7.0	17.0	7.4	100	0	27

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 11...	9.0	18	27	.8	1.9	160	0	130	3.5

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 11...	10	.1	19	168	.23	.16	.01	340	50

BIG RIVER BASIN
11468100 BIG RIVER NEAR MENDOCINO, CA

LOCATION.--Lat 39°18'48", long 123°41'14", in NW¼NE¼ sec.30, T.17 N., R.16 W., Mendocino County, at road ford, 1.6 mi (2.6 km) upstream from Little North Fork Big River, and 5.9 mi (9.5 km) east of Mendocino.
DRAINAGE AREA.--151 mi² (381 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1959-66, 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 16...	1450	.72	205	7.5	21.0	9.6	78	0	20

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 16...	6.7	14	28	.7	1.6	120	0	96	4.6

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 16...	8.5	.1	11	126	.17	.24	.01	630	70

TENMILE RIVER BASIN
11468600 MIDDLE FORK TENMILE RIVER NEAR FORT BRAGG, CA

LOCATION.--Lat 39°34'22", long 123°41'57", in NE¼NE¼ sec.25, T.20 N., R.17 W., Mendocino County, 0.8 mi (1.3 km) upstream from confluence with North Fork Tenmile River, and 10 mi (16 km) northeast of Fort Bragg.
DRAINAGE AREA.--32.9 mi² (85.2 km²).
PERIOD OF RECORD.--Water years 1965-73, 1977.
CHEMICAL ANALYSIS: Water year 1977.
WATER TEMPERATURES: Water years 1965-73.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1964 to September 1973.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 16...	1005	.89	162	7.2	15.5	8.5	63	0	17

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 16...	5.1	10	25	.5	1.4	95	0	78	3.1

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 16...	5.8	.1	7.9	97	.13	.23	.01	200	10

TENMILE RIVER BASIN--Continued

11468650 NORTH FORK TENMILE RIVER NEAR FORT BRAGG, CA

LOCATION.--Lat 39°34'24", long 123°42'26", in NE¼NW¼ sec.25, T.20 N., R.17 W., Mendocino County, 800 ft (244 m) upstream from confluence with Middle Fork Tenmile River, and 10.2 mi (16.4 km) northeast of Fort Bragg.
DRAINAGE AREA.--39.1 mi^2 (101.3 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 16...	1100	1.5	179	7.4	16.0	8.9	68	0	18

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 16...	5.6	11	26	.6	1.3	99	0	81	3.5

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 16...	5.0	.1	14	108	.15	.44	.01	390	30

11468710 SOUTH FORK TENMILE RIVER AT MOUTH, NEAR FORT BRAGG, CA

LOCATION.--Lat 39°32'06", long 123°44'49", in SW¼SW¼ sec.3, T.19 N., R.17 W., Mendocino County, 3,000 ft (914 m) upstream from mouth and 6.8 mi (10.9 km) northeast of Fort Bragg.
DRAINAGE AREA.--38.7 mi^2 (100.2 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 16...	1230	.44	188	7.3	17.5	9.4	71	0	19

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 16...	5.7	14	30	.7	1.4	100	0	85	2.5

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 16...	8.6	.1	13	114	.16	.14	.03	270	90

EEL RIVER BASIN

11472800 MIDDLE FORK EEL RIVER ABOVE BLACK BUTTE RIVER, NEAR COVELO, CA

LOCATION.--Lat 39°49'45", long 123°04'11", in SE¼SW¼ sec.22, T.23 N., R.11 W., Mendocino County, 1.2 mi (1.9 km) upstream from Black Butte River and 9.8 mi (15.8 km) northeast of Covelo.
DRAINAGE AREA.--204 mi^2 (528 km^2).
PERIOD OF RECORD.--Water years 1966-70, 1977.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1966-70.
SEDIMENT RECORDS: Water years 1968-70.
TURBIDITY: Water year 1968.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May to October 1966, October 1967 to September 1970.
SEDIMENT RECORDS: October 1967 to September 1970.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 24...	1745	1.0	364	8.8	24.5	9.6	120	46	38

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 24...	7.0	21	27	.8	1.6	90	0	74	31

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 24...	52	.0	8.6	204	.28	.57	.00	480	20

11472900 BLACK BUTTE RIVER NEAR COVELO, CALIF.

LOCATION.--Lat 39°49'15", long 123°04'50", in SE¼ sec.28, T.23 N., R.11 W., Mendocino County, on right bank 10 ft (3 m) upstream from highway bridge, 0.5 mi (0.8 km) upstream from mouth, and 9.5 mi (15.3 km) east of Covelo.
DRAINAGE AREA.--162 mi^2 (420 km^2).
PERIOD OF RECORD.--Water years 1964-75, 1977.
CHEMICAL ANALYSIS: Water years 1965-66, 1977.
SPECIFIC CONDUCTANCE: Water years 1967-68.
WATER TEMPERATURES: Water years 1964-75.
SEDIMENT RECORD: Water years 1966-73.
TURBIDITY: Water years 1966-68.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1966 to September 1968.
WATER TEMPERATURES: May 1964 to September 1975.
SEDIMENT RECORDS: December 1966 to September 1973.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 24...	1630	.11	294	8.8	26.0	10.0	130	46	41

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 24...	6.3	6.8	10	.3	1.3	100	1	84	64

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 24...	2.6	.1	10	183	.25	.05	.01	100	50

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

EEL RIVER BASIN--Continued

11474500 NORTH FORK EEL RIVER NEAR MINA, CA

LOCATION.--Lat 39°56'18", long 123°20'36", in SW¼ sec.8 , T.24 N., R.13 W., Mendocino County, on right bank 0.2 mi (0.3 km) upstream from county road bridge, 1.4 mi (2.3 km) upstream from Asbill Creek, and 2 mi (3 km) south of Mina.
DRAINAGE AREA.--248 mi^2 (642 km^2).
PERIOD OF RECORD.--Water years 1966-67, 1973-77.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1973-75.
SEDIMENT RECORDS: Water years 1966-67, 1973-76.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to September 1975.
SEDIMENT RECORDS: October 1972 to September 1975.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 25...	0945	.22	307	8.0	22.0	6.4	130	32	36

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 25...	8.6	11	16	.4	1.4	120	0	96	37

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 25...	14	.1	9.5	177	.24	.11	150	20

11475100 DOBBYN CREEK NEAR FORT SEWARD, CA

LOCATION.--Lat 40°14'14", long 123°38'05", in NW¼NE¼ sec.5, T.3 S., R.5 E., Humboldt County, on left bank at downstream side of county road bridge, 0.2 mi (0.3 km) upstream from Conley Creek, 1.2 mi (1.9 km) northeast of Fort Seward, and 1.6 mi (2.6 km) upstream from mouth.
DRAINAGE AREA.--61.4 mi^2 (159.0 km^2).
PERIOD OF RECORD.--Water years 1973-77.
CHEMICAL ANALYSIS: Water year 1977.
WATER TEMPERATURES: Water years 1973-76.
SEDIMENT RECORDS: Water years 1973-76.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to September 1976.
SEDIMENT RECORDS: October 1972 to September 1976.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 23...	1000	3.6	302	8.5	19.5	9.5	140	16	41

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 23...	9.4	9.2	12	.3	1.4	150	1	120	40

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 23...	4.4	.1	8.0	189	.26	1.84	.02	120	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

EEL RIVER BASIN--Continued

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.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1961-70.
SEDIMENT RECORDS: Water years 1957-70.
TURBIDITY: Water years 1966-68.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1960 to September 1970.
SEDIMENT RECORDS: October 1962 to September 1970.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 24...	0945	.46	157	7.8	19.5	7.5	48	0	13

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 24...	3.7	14	38	.9	1.3	90	0	74	2.4

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 24...	5.3	.1	5.3	90	.12	.11	.01	580	40

11475940 EAST BRANCH SOUTH FORK EEL RIVER NEAR GARBERVILLE, CA

LOCATION.--Lat 40°04'27", long 123°46'08", in SE¼NE¼ sec.31, T.4 S., R.4 E., Humboldt County, just upstream from Panther Canyon, 1.9 mi (3.1 km) upstream from mouth, and 2.3 mi (3.7 km) southeast of Garberville.
DRAINAGE AREA.--74.3 mi² (192.4 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
AUG 23...	1500	.95	289	8.3	26.0	9.2	140	4	36	11

DATE	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
AUG 23...	10	14	.4	1.8	160	0	130	24	6.6	.1

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 23...	10	179	.24	.46	.01	.01	.01	70	20

EEL RIVER BASIN--Continued

11476700 LARABEE CREEK NEAR HOLMES, CA

LOCATION.--Lat 40°24'30", long 123°54'00", in SW¼ sec.1, T.1 S., R.2 E., Humboldt County, 50 ft (15 m) downstream from Balcom Creek, 2.8 mi (4.5 km) upstream from mouth, and 2.8 mi (4.5 km) east of Holmes.
DRAINAGE AREA.--84.1 mi^2 (217.8 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1964, 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 12...	1235	3.5	273	8.8	20.5	10.1	120	5	34

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP 12...	8.4	10	15	.4	1.4	140	0	110	21

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP 12...	5.5	.1	7.9	157	.21	1.48	.01	50	20

11477700 LITTLE VAN DUZEN RIVER NEAR BRIDGEVILLE, CA

LOCATION.--Lat 40°26'40", long 123°39'15", in SE¼ sec.19, T.1 N., R.5 E., Humboldt County, 0.2 mi (0.3 km) upstream from Butte Creek, 3 mi (5 km) upstream from mouth, and 7.8 mi (12.6 km) east of Bridgeville.
DRAINAGE AREA.--36.2 mi^2 (93.8 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 15...	1410	2.3	245	9.0	24.5	9.5	120	8	31

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 15...	9.8	5.3	9	.2	.8	130	2	110	17

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 15...	4.1	.0	8.2	142	.19	.88	.00	70	10

EEL RIVER BASIN--Continued
11479000 YAGER CREEK NEAR CARLOTTA, CA

LOCATION.--Lat 40°34'15", long 124°02'55", in SW¼NE¼ sec.10, T.2 N., R.1 E., Humboldt County, 0.8 mi (1.3 km) upstream from Cooper Mill Creek, and 2.4 mi (3.9 km) north of Carlotta.
DRAINAGE AREA.--127 mi² (329 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 10...	1430	3.0	281	8.4	22.0	9.4	120	6	36

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 10...	7.6	13	19	.5	1.4	140	0	110	17

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 10...	14	.1	8.7	167	.23	1.35	.00	130	10

ELK RIVER BASIN
11479700 ELK RIVER NEAR FALK, CA

LOCATION.--Lat 40°42'10", long 124°09'20", in NW¼ sec.26, T.4 N., R.1 W., 500 ft (152 m) downstream from Clapp Gulch, 1,300 ft (396 m) downstream from confluence of North and South Forks, 2 mi (3 km) northwest of Falk, and 5 mi (8 km) south of Eureka.
DRAINAGE AREA.--44.2 mi² (114.5 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 16...	1015	1.3	264	7.3	14.0	7.6	89	8	16

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 16...	12	22	34	1.0	2.1	99	0	81	10

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 16...	29	.1	15	156	.21	.55	.08	80	730

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

JACOBY CREEK BASIN
11480000 JACOBY CREEK NEAR FRESHWATER, CA

LOCATION.--Lat 40°47'30", long 124°00'10", in NW¼ sec.30, T.5 N., R.2 E., Humboldt County, 3.7 mi (6.0 km) northeast of Freshwater.
DRAINAGE AREA.--6.05 mi² (15.67 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 08...	1045	5.4	176	8.3	12.5	10.2	68	0	18

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP 08...	5.7	9.1	22	.5	1.2	86	0	71	7.0

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP 08...	7.2	.1	13	104	.14	1.52	.10	40	20

MAD RIVER BASIN
11480390 MAD RIVER ABOVE RUTH RESERVOIR, NEAR FOREST GLEN, CA

LOCATION.--Lat 40°18'51", long 123°21'44", in NW¼NW¼ sec.11, T.2 S., R.7 E., Trinity County, Six Rivers National Forest, at bridge on Zenia road, 0.5 mi (0.8 km) southeast of Ruth, and 4.6 mi (7.4 km) southwest of Forest Glen.
DRAINAGE AREA.--103 mi² (267 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSIS: Water years 1971-73, 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 07...	1410	.38	109	6.3	25.5	7.0	50	0	15

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP 07...	3.0	4.3	16	.3	.8	61	0	50	10

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP 07...	1.6	.1	9.6	75	.10	.08	.15	10	10

MAD RIVER BASIN--Continued

11480410 MAD RIVER BELOW RUTH RESERVOIR, NEAR FOREST GLEN, CA

LOCATION (REVISED).--Lat 40°22'16", long 123°26'06", in SW¼SW¼ sec.18, T.1 N., R.7 E., Trinity County, Six Rivers National Forest, 1,200 ft (366 m) downstream from Robert W. Matthews Dam, 5.3 mi (8.4 km) northwest of Ruth, and 5.8 mi (9.3 km) west of Forest Glen.
DRAINAGE AREA.--121 mi² (313 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water years 1971-72, 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 07...	1640	67	96	6.5	21.0	7.6	49	6	15

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP 07...	2.8	3.1	12	.2	.7	52	0	43	7.7

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP 07...	1.2	.1	3.6	60	.08	10.9	.02	10	60

11480750 MAD RIVER NEAR KNEELAND, CA

LOCATION.--Lat 40°45'50", long 123°53'20", in NW¼NW¼ sec.6, T.4 N., R.3 E., Humboldt County, at mouth of Maple Creek, 30 ft (9 m) upstream from bridge, and 5.4 mi (8.7 km) east of Kneeland.
DRAINAGE AREA.--351 mi² (909 km²).
PERIOD OF RECORD.--Water years 1966-74, 1977.
CHEMICAL ANALYSES: Water years 1971-74, 1977.
WATER TEMPERATURES: Water years 1966-74.
SEDIMENT RECORDS: Water years 1971-74.
TURBIDITY: Water years 1971-74.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1965 to September 1974.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 11...	1215	75	186	8.2	21.0	9.0	81	3	26

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 11...	3.8	4.4	11	.2	.9	95	0	78	10

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 11...	2.3	.0	6.5	101	.14	20.5	.01	70	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

MAD RIVER BASIN--Continued

11480780 MAD RIVER NEAR BLUE LAKE, CA

LOCATION.--Lat 40°50'47", long 123°58'54", in NW¼ sec.5, T.5 N., R.2 E., Humboldt County, on right bank 0.3 mi (0.5 km) upstream from small left-bank tributary, and 2.4 mi (3.9 km) south of town of Blue Lake.
DRAINAGE AREA.--393 mi² (1,018 km²).
PERIOD OF RECORD.--Water years 1972-77.
CHEMICAL ANALYSES: Water years 1972-74, 1977.
WATER TEMPERATURES: Water years 1973-76.
SEDIMENT RECORDS: Water years 1973-74.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1972 to September 1976.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 12...	1030	73	220	8.3	19.0	9.3	99	9	32

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 12...	4.7	5.1	10	.2	1.0	110	0	93	15

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 12...	2.6	.0	7.1	122	.17	24.2	.00	90	10

11480820 NORTH FORK MAD RIVER AT KORBEL, CA

LOCATION.--Lat 40°52'12", long 123°57'35", in SE¼SW¼ sec.28, T.6 N., R.2 E., Humboldt County, at Korbel, 100 ft (30 m) downstream from bridge, 200 ft (61 m) upstream from Sullivan Gulch.
DRAINAGE AREA.--44.4 mi² (115.0 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 26...	1030	2.2	253	7.6	18.0	8.5	100	18	34

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 26...	4.8	7.8	14	.3	2.3	100	0	85	31

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 26...	9.1	.0	4.5	143	.19	.85	.01	40	50

BIG LAGOON BASIN
BIG LAGOON NEAR BIG LAGOON, CA

LOCATION.--Lat 41°10'33", long 124°06'56", Humboldt County, at town of Big Lagoon.
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	SAMPLING DEPTH (METER) 1/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
SEP						
09...	1200	.5	10200	8.3	19.8	8.8
09...	1201	1.0	10200	8.3	19.8	8.8
09...	1202	1.5	10200	8.3	19.8	8.8
09...	1203	2.0	10200	8.3	19.8	8.8
09...	1204	2.5	10200	8.3	19.8	8.8
09...	1205	3.0	10200	8.3	19.8	8.8
09...	1206	3.5	10200	8.3	19.8	8.8
09...	1207	4.0	10200	8.2	19.8	8.7
09...	1208	4.5	10200	8.2	19.8	8.7
09...	1209	5.0	10200	8.2	19.8	8.7
09...	1210	5.5	10300	8.2	19.6	8.4
09...	1211	6.0	10200	8.2	19.6	8.4

DATE	TIME	SAMPLING DEPTH (METER) 1/	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM
SEP											
09...	1215	1.0	8.3	20.0	8.8	1300	1200	79	270	1800	74

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
SEP											
09...	22	76	79	0	65	430	3400	.3	2.2	6100	8.30

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP										
09...	.00	.00	.00	.21	.21	.21	.00	.00	840	30

REDWOOD CREEK BASIN
11482140 HIGH-SLOPE SCHIST CREEK NEAR ORICK, CA

LOCATION.--Lat 41°07'25", long 123°56'51", unsurveyed, Humboldt County, on right bank 100 ft (30 m) upstream from mouth, 13 mi (21 km) southeast of Orick.
DRAINAGE AREA.--0.53 mi^2 (1.37 km^2).
PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974 to current year.
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	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						
01...	1200	.08	13.0	--	--	--
JAN						
19...	1500	.16	6.5	1	.00	--
19...	1530	.16	6.5	--	--	--
FEB						
14...	1240	.03	8.0	--	--	--
MAR						
04...	1145	.34	7.0	--	--	--
09...	1100	.55	--	304	.45	40

1/ To convert meters to feet, multiply by 3.281.

REDWOOD CREEK BASIN--Continued

11482210 BRIDGE CREEK NEAR ORICK, CA

LOCATION.--Lat 41°11'32", long 123°58'52", unsurveyed, Humboldt County, 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 to current year.
SEDIMENT RECORDS: Water years 1974-76.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)
FEB			
23...	1450	18	9.0
MAR			
09...	1220	77	8.5

11482225 HARRY WIER CREEK NEAR ORICK, CA

LOCATION.--Lat 41°11'53", long 123°59'32", unsurveyed, Humboldt County, Redwood National Park, on right bank 150 ft (46 m) upstream from mouth, 7.1 mi (11.4 km) southeast of Orick.
DRAINAGE AREA.--2.96 mi² (7.67 km²).
PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1973-76.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)
MAR			
09...	1430	23	8.5

11482230 TOM MCDONALD CREEK NEAR ORICK, CA

LOCATION.--Lat 41°12'16", long 124°00'53", in SE¼NW¼ sec.1, T.9 N., R.1 E., Humboldt County, Redwood National Park, on right bank 0.4 mi (0.6 km) upstream from mouth, 6.1 mi (9.8 km) southeast of Orick.
DRAINAGE AREA.--6.86 mi² (17.77 km²).
PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1974-76.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)
FEB			
04...	1400	2.4	5.5

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, 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 to current year.
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	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SEDIMENT BEDLOAD DISCHARGE (T/DAY)
MAR							
09...	1100	63	--	787	134	46	--
15...	1200	6.2	7.5	--	--	--	--
15...	1215	6.2	7.5	42	.70	33	.00

REDWOOD CREEK BASIN--Continued

11482295 GANS SOUTH CREEK NEAR ORICK, CA

LOCATION.--Lat 41°15'46", long 124°00'49", in SE¼SW¼ sec.12, T.10 N., R.1 E., Humboldt County, Redwood National Park, on right bank 250 ft (76 m) upstream from mouth, 2.9 mi (4.7 km) southeast of Orick.
DRAINAGE AREA.--0.52 mi² (1.35 km²).
PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL ANALYSES: Water year 1975.
SEDIMENT RECORDS: Water year 1975, 1977.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Number 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 09...	1100	20	10	.54	56

11482305 GANS WEST CREEK NEAR ORICK, CA

LOCATION.--Lat 41°16'30", long 124°01'32", in SW¼SE¼ sec.2, T.10 N., R.1 E., Humboldt County, Redwood National Park, on left bank 200 ft (61 m) upstream from mouth, 1.9 mi (3.1 km) southeast of Orick.
DRAINAGE AREA.--0.27 mi² (0.70 km²).
PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL ANALYSES: Water years 1975 to current year.
SEDIMENT RECORDS: Water year 1975.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Number 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)
FEB 21...	1330	.15	9.0

11482320 LOW-SLOPE SCHIST CREEK NEAR ORICK, CA

LOCATION.--Lat 41°16'53", long 124°01'49", in NE¼SW¼ sec.2, T.10 N., R.1 E., Humboldt County, Redwood National Park, on right bank 200 ft (61 m) upstream from mouth, 1.6 mi (2.6 km) southeast of Orick.
DRAINAGE AREA.--0.19 mi² (0.49 km²).
PERIOD OF RECORD.--Water years 1974 to current year.
CHEMICAL ANALYSES: Water years 1974 to current year.
SEDIMENT RECORDS: Water years 1974-75.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)
FEB 21...	1230	.08	--
MAR 16...	1345	.20	7.0

11482330 HAYES CREEK NEAR ORICK, CA

LOCATION.--Lat 41°17'24", long 124°01'36", in SE¼SW¼ sec.35, T.11 N., R.1 E., Humboldt County, Redwood National Park, on right bank 500 ft (152 m) upstream from mouth, 1.7 mi (2.7 km) east of Orick.
DRAINAGE AREA.--0.58 mi² (1.50 km²).
PERIOD OF RECORD.--Water years 1973 to current year.
CHEMICAL ANALYSES: Water years 1973 to current year.
SEDIMENT RECORDS: Water years 1974-76.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Numbers 1 and 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)
FEB 21...	1105	.23	9.0

REDWOOD CREEK BASIN--Continued

11482455 LOST MAN CREEK TRIBUTARY NEAR ORICK, CA

LOCATION.--Lat 41°19'20", long 123°59'52", in SE¼SE¼ sec.24, T.11 N., R.1 E., Humboldt County, Redwood National Park, on left bank 100 ft (30 m) upstream from mouth, 4.1 mi (6.6 km) northeast of Orick.
DRAINAGE AREA.--0.44 mi² (1.14 km²).
PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL ANALYSES: Water years 1975 to current year.
SEDIMENT RECORDS: Water years 1975-76.
REMARKS.--Prior to October 1975, published in Geological Survey open-file report, "Redwood National Park Studies", Data Release Number 2.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)
MAR 15...	1515	1.4	8.5

KLAMATH RIVER BASIN

11522300 SOUTH FORK SALMON RIVER NEAR FORKS OF SALMON, CA

LOCATION.--Lat 41°13'20", long 123°15'00", in SE¼ sec.30, T.39 N., R.12 W., Siskiyou County, 100 ft (30 m) downstream from Methodist Creek and 4.5 mi (7.2 km) southeast of town of Forks of Salmon.
DRAINAGE AREA.--252 mi² (653 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 29...	1445	23	159	8.4	21.0	8.9	84	10	23

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
AUG 29...	6.5	3.5	8	.2	.9	90	74	5.3	4.3

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 29...	.0	11	99	.13	6.15	.01	20	30

11522400 NORTH FORK SALMON RIVER NEAR FORKS OF SALMON, CA

LOCATION.--Lat 41°16'02", long 123°18'12", in NE¼ sec.18, T.10 N., R.8 E., Siskiyou County, 0.4 mi (0.6 km) downstream from Pollocks Gulch, 1.2 mi (1.9 km) upstream from Forks of Salmon, and 1.3 mi (2.1 km) upstream from mouth.
DRAINAGE AREA.--203 mi² (526 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSIS: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 29...	1645	22	124	8.4	23.0	8.9	54	0	16

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 29...	3.4	3.0	11	.2	1.0	67	2	55	3.2

KLAMATH RIVER BASIN--Continued

11522400 NORTH FORK SALMON RIVER NEAR FORKS OF SALMON, CA--Continued

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG 29...	2.2	.0	11	75	.10	4.45	.00	9	10

11523030 RED CAP CREEK NEAR ORLEANS, CA

LOCATION.--Lat 41°14'25", long 123°32'35", in SW¼ sec.19, T.10 N., R.6 E., Humboldt County, Six Rivers National Forest, 0.5 mi (0.8 km) downstream from Leary Creek, 4.4 mi (7.1 km) south of Orleans, and 4.9 mi (7.9 km) upstream from mouth.
DRAINAGE AREA.--56.1 mi² (145.3 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
AUG 30...	1730	9.5	205	8.6	21.0	8.8	93	3	26

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG 30...	6.7	6.4	13	.3	.6	110	0	87	11

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG 30...	8.0	.0	16	129	.18	3.31	.00	170	10

11523050 BLUFF CREEK NEAR WEITCHPEC, CA

LOCATION.--Lat 41°14'25", long 123°39'25", in SW¼ sec.19, T.10 N., R.5 E., Humboldt County, Six Rivers National Forest, 0.8 mi (1.3 km) upstream from Aikens Creek, 1.2 mi (1.9 km) upstream from mouth, and 4.4 mi (7.1 km) northeast of Weitchpec.
DRAINAGE AREA.--74.6 mi² (193.2 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
AUG 31...	1345	38	182	8.4	19.0	9.0	91	16	15

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG 31...	13	2.9	6	.1	.5	95	0	78	12

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
AUG 31...	3.0	.0	12	104	.14	10.5	.01	60	20

KLAMATH RIVER BASIN--Continued

11527400 NEW RIVER AT DENNY, CA

LOCATION.--Lat 40°56'45", long 123°22'55", in NE¼ sec.33, T.7 N., R.7 E., Trinity County, Trinity National Forest, at private road bridge, 0.3 mi (0.5 km) northeast of Denny, and 0.5 mi (0.8 km) downstream from Quinby Creek.
DRAINAGE AREA.--173 mi^2(448 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 09...	1140	15	229	8.2	18.0	8.6	110	3	32

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP 09...	7.3	3.5	6	.1	1.0	130	0	110	10

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP 09...	3.3	.0	14	135	.18	5.50	.01	60	20

11528400 HAYFORK CREEK NEAR HAYFORK, CA

LOCATION.--Lat 40°31'10", long 123°05'05", in SW¼ sec.23, T.31 N., R.11 W., Trinity County, Trinity National Forest, 5.8 mi (9.3 km) southwest of Hayfork.
DRAINAGE AREA.--86.7 mi^2 (224.6 km^2).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 09...	0940	.18	777	8.4	19.5	8.7	230	120	52

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 09...	25	50	32	1.4	1.2	130	4	110	9.9

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 09...	160	.1	23	390	.53	.19	.09	110	20

KLAMATH RIVER BASIN--Continued

11528500 HAYFORK CREEK NEAR HYAMPOM, CA

LOCATION.--Lat 40°37'34", long 123°26'01", in SE¼NW¼ sec.19, T.3 N., R.7 E., Trinity County, Trinity National Forest, 1.2 mi (1.9 km) upstream from mouth, and 1.3 mi (2.1 km) northeast of Hyampom.
DRAINAGE AREA.--378 mi² (979 km²).
PERIOD OF RECORD.--Water years 1961-74, 1977.
CHEMICAL ANALYSES: Water year 1977.
WATER TEMPERATURES: Water years 1961-74.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1960 to September 1974.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 09...	1215	6.1	325	8.6	24.5	10.8	140	17	32

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 09...	15	17	21	.6	.8	150	1	120	7.0

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 09...	29	.0	22	198	.27	3.26	.00	70	10

11529000 SOUTH FORK TRINITY RIVER NEAR SALYER, CA

LOCATION.--Lat 40°50'30", long 123°34'00", in SE¼ sec.1, T.5 N., R.5 E., Humboldt County, Six Rivers National Forest, 4 mi (6 km) south of Salyer, and 8 mi (13 km) upstream from mouth.
DRAINAGE AREA.--898 mi² (2,326 km²).
PERIOD OF RECORD.--Water years 1955-67, 1977.
CHEMICAL ANALYSES: Water years 1959, 1977.
WATER TEMPERATURES: Water years 1957-67.
SEDIMENT RECORDS: Water years 1955-67.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1956 to September 1967.
SEDIMENT RECORDS: November 1956 to September 1967.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 02...	1015	35	272	8.1	20.0	8.9	130	28	34

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP 02...	12	6.6	10	.2	.7	130	0	110	27

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP 02...	7.6	.1	12	164	.22	15.5	.00	80	30

KLAMATH RIVER BASIN--Continued

11529800 WILLOW CREEK NEAR WILLOW CREEK, CA

LOCATION.--Lat 40°56'50", long 123°39'35", in SE¼SW¼ sec.30, T.7 N., R.5 E., Humboldt County, 0.1 mi (0.2 km) upstream from Boise Creek, 1.5 mi (2.4 km) northwest of town of Willow Creek, and 1.8 mi (2.9 km) upstream from mouth.
DRAINAGE AREA.--41.0 mi² (106.2 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
SEP 02...	1250	7.7	228	8.2	18.5	9.3	120	22	22

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP 02...	16	3.6	6	.1	.7	120	0	99	17

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
SEP 02...	2.5	.0	16	137	.19	2.85	.01	60	20

SMITH RIVER BASIN

11532000 SOUTH FORK SMITH RIVER NEAR CRESCENT CITY, CA

LOCATION.--Lat 41°47'28", long 124°01'29", unsurveyed, Del Norte County, Six Rivers National Forest, on left bank, 0.1 mi (0.2 km) downstream from Craigs Creek, 2.0 mi (3.2 km) upstream from mouth, and 9.2 mi (14.8 km) northeast of Crescent City.
DRAINAGE AREA.--291 mi² (754 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 17...	1150	105	170	8.2	18.5	9.3	78	4	13

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
AUG 17...	11	2.5	7	.1	.5	90	0	74	5.0

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 17...	2.6	.0	12	91	.12	25.8	.00	10	20

SMITH RIVER BASIN--Continued

11532690 DOMINIE CREEK AT SMITH RIVER, CA

LOCATION.--Lat 41°55'54", long 124°08'43", in SE¼SW¼ sec.23, T.18 N., R.1 W., Del Norte County, 700 ft (213 m) upstream from bridge on U.S. Highway 101, 0.2 mi (0.3 km) upstream from mouth, and 0.2 mi (0.3 km) north of town of Smith River.
DRAINAGE AREA.--3.62 mi² (9.38 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
AUG 18...	0940	1.3	85	7.5	13.5	10.0	29	0	8.3	2.1

DATE	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
AUG 18...	4.2	23	.3	.5	37	0	30	5.4	4.9	.1

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 18...	8.7	53	.07	.19	.21	.00	.21	10	90

11532700 ROWDY CREEK AT SMITH RIVER, CA

LOCATION.--Lat 41°55'18", long 124°08'45", in NE¼SW¼ sec.26, T.18 N., R.1 W., Del Norte County, 0.4 mi (0.6 km) downstream from Dominie Creek, 0.6 mi (1.0 km) south of town of Smith River, and 12.2 mi (19.6 km) north of Crescent City.
DRAINAGE AREA.--33.3 mi² (86.2 km²).
PERIOD OF RECORD.--
CHEMICAL ANALYSES: Water year 1977.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
AUG 17...	1740	4.4	105	9.1	18.0	10.5	40	0	6.7	5.6

DATE	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
AUG 17...	4.7	20	.3	.4	50	9	41	3.5	5.8

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED IRON (FE) (UG/L)
AUG 17...	.0	9.1	70	.10	.83	.00	10	96	40

Del Norte County

Smith River Basin

414643124115601. Local number 16N/1W-17K1 H.
LOCATION.Lat 41°46'43", long 124°11'56", about 1.5 mi (2.4 km) north of Crescent City.
Owner: Josephene Strouse.
AQUIFER.--Battery Formation of Pleistocene age.
WELL CHARACTERISTICS.--Drilled domestic water-table well, diameter 6 in (0.15 m), depth 40 ft (12.2 m), perforated 34-39 ft (10.3-11.9 m).
DATUM.--Altitude of land-surface datum is 48 ft (14.6 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.3 ft (2.23 m) below land-surface datum, Mar. 28, 1961; lowest measured, 24.00 ft (7.315 m) below land-surface datum, Jan. 27, 1960.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 25, 1976	22.5	APR. 5, 1977	23.5				

415322124084701. Local number 17N/1W-2P1 H.
LOCATION.--Lat 41°53'22", long 124°08'47", about 1.6 mi (2.6 km) north of Fort Dick.
Owner: Homer Martin.
AQUIFER.--Flood-plain deposits of Quaternary age.
WELL CHARACTERISTICS.--Drilled domestic water-table well, diameter 8 in (0.20 m), depth 26 ft (7.9 m), casing information not available.
DATUM.--Altitude of land-surface datum is 31 ft (9.4 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1952, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.9 ft (3.32 m) below land surface datum, Mar. 30, 1960; lowest measured, 23.43 ft (7.141 m) below land-surface datum, Oct. 14, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 25, 1976	22.0	APR. 5, 1977	18.5				

Humboldt County

Eureka-Fortuna Area

403550124093101. Local number 3N/1W-34J1 H.
LOCATION.--Lat 40°35'50", long 124°09'31", in the southwest corner of the city of Fortuna in the Eel River Valley. Owner: City of Fortuna.
AQUIFER.--Carlotta Formation of Ogle (1953) of Pliocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (0.30 m), depth 496 ft (151.2 m), perforated 182-226 ft (55.47-68.88 m), 285-365 ft (86.87-111.2 m).
DATUM.--Altitude of land-surface datum is 60 ft (18.3 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1951-53, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.3 ft (7.10 m) below land-surface datum, Sept. 5, 1952; lowest measured, 36.4 ft (11.09 m) below land-surface datum, Oct. 26, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 26, 1976	36.4	APR. 6, 1977	35.4				

Mendocino County

Laytonville Area

393837123281801. Local number 21N/14W-30M1 M.
LOCATION.--Lat 39°38'37", long 123°28'18", about 2 mi (3 km) south of Laytonville.
Owner: Howard Winton.
AQUIFER.--Alluvium of Holocene age.
WELL CHARACTERISTICS.--Dug domestic and irrigation water-table well, size 5x5 ft (2x2 m), depth 29 ft (8.8 m), casing information not available.
DATUM.--Altitude of land-surface datum is 1,688 ft (514.5 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1952-55, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.68 ft (0.817 m) below land-surface datum, Apr. 23, 1963; lowest measured, 20.0 ft (6.10 m) below land-surface datum, Aug. 25, 1959.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 27, 1976	17.1	APR. 6, 1977	9.0				

Mendocino County--Continued

Little Lake Valley

392459123210301. Local number 18N/13W-18E1 M.
LOCATION.--Lat 39°24'59", long 123°21'03", at Willits.
Owner: Northwestern Pacific Railroad.
AQUIFER.--Alluvium of Holocene age and continental deposits of Pliocene and Pleistocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (0.30 m), depth 493 ft (150.3 m), casing information not available.
DATUM.--Altitude of land-surface datum is 1,350 ft (411.5 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.8 ft (5.43 m) below land-surface datum, Apr. 18, 1974; lowest measured, 37.6 ft (11.46 m) below land-surface datum, Oct. 24, 1960.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 27, 1976	23.2	APR. 4, 1977	21.2				

Potter Valley

391944123065701. Local number 17N/11W-18J1 M.
LOCATION.--Lat 39°19'44", long 123°06'57", about 2.5 mi (4.0 km) southeast of Potter Valley.
Owner: Orvil Watkins.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 8 in (0.20 m), depth 36 ft (11.0 m), casing information not available.
DATUM.--Altitude of land-surface datum is 955 ft (291.1 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1951-55, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.33 ft (0.405 m) above land-surface datum, Mar. 22, 1966; lowest measured, 5.20 ft (1.585 m) below land-surface datum, Oct. 13, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	1.0	MAR. 11, 1977	.4				

Sanel Valley

385800123064801. Local number 13N/11W-19P1 M.
LOCATION.--Lat 38°58'00", long 123°06'48", about 0.4 mi (0.6 km) south of Hopland.
Owner: Hansen Ranch.
AQUIFER.--Alluvium of Holocene age.
WELL CHARACTERISTICS.--Dug and drilled irrigation water-table well, size 4x5 ft (1.2x1.5 m), depth 44 ft (13.4 m), 12 in (0.30 m) casing to 44 ft (13.4 m), perforated 24-44 ft (7.31-13.4 m).
DATUM.--Altitude of land-surface datum is 488 ft (148.7 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1953-55, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.3 ft (0.40 m) below land-surface datum, Feb. 9, 1960; lowest measured, 21.0 ft (6.40 m) below land-surface datum, Oct. 2, 1958.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1976	19.9	MAR. 10, 1977	14.0				

385831123052201. Local number 13N/11W-20G1 M.
LOCATION.--Lat 38°58'31", long 123°05'22", about 0.5 mi (0.8 km) east of East Hopland.
Owner: I. Bliss.
AQUIFER.--Alluvium of Holocene age.
WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 6 in (0.15 m), depth 135 ft (41.1 m), casing information not available.
DATUM.--Altitude of land-surface datum is 515 ft (157.0 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1953-55, 1958-77 (discontinued).
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.3 ft (0.70 m) below land-surface datum, Feb. 8, 1960; lowest measured, 64.21 ft (19.571 m) below land-surface datum, Oct. 4, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1976	12.9						

Mendocino County--Continued

Ukiah Area

391026123123201. Local number 15N/12W-8L1 M.
LOCATION.--Lat 39°10'26", long 123°12'32", about 1 mi (2 km) north of Ukiah.
Owner: Arnold Bogner.
AQUIFER.--Terrace deposits of Holocene age.
WELL CHARACTERISTICS.--Drilled domestic water-table well, diameter 12 in (0.30 m), depth 62 ft (18.9 m), casing information not available.
DATUM.--Altitude of land-surface datum is 665 ft (202.7 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1951-55, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.10 ft (3.078 m) below land-surface datum, Mar. 9, 1962; lowest measured, 30.6 ft (9.33 m) below land-surface datum, Dec. 5, 1959.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	28.3	MAR. 10, 1977	25.2				

Napa County

Napa Valley

381730122163201. Local number 5N/4W-11M1 M.
LOCATION.--Lat 38°17'30", long 122°16'32", Napa.
Owner: DeWitt Machine Shop.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (0.20 m), depth 77 ft (23.5 m), casing information not available.
DATUM.--Altitude of land-surface datum is 13 ft (4.0 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1950 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.56 ft (0.780 m) below land-surface datum, Jan. 22, 1951; lowest measured, 10.5 ft (3.20 m) below land-surface datum, Sept. 8, 1950.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	8.7	MAR. 11, 1977	8.9				

382218122190101. Local number 6N/4W-17A1 M.
LOCATION.--Lat 38°22'18", long 122°19'01", about 4 mi (6 km) north of Napa.
Owner: L. N. Bianchini.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 12 in (0.30 m), depth 250 ft (76.2 m), cased to 250 ft (76.2 m).
DATUM.--Altitude of land-surface datum is 67 ft (20.4 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.6 ft (0.18 m) below land-surface datum, Feb. 21, 1969; lowest measured, 49.9 ft (15.21 m) below land-surface datum, Mar. 11, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	25.4	MAR. 11, 1977	49.9				

382750122250401. Local number 7N/5W-16B2 M.
LOCATION.--Lat 38°27'50", long 122°25'04", about 0.25 mi (0.40 km) northeast of Rutherford.
Owner: Lamont Morton.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in (0.25 m), depth 232 ft (70.7 m), casing information not available.
DATUM.--Altitude of land-surface datum is 155 ft (47.2 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1949-53, 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.0 ft (1.22 m) below land-surface datum, Mar. 27, 1952; lowest measured, 28.3 ft (8.63 m) below land-surface datum, Sept. 7, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	23.1	MAR. 11, 1977	26.7				

Napa County--Continued

Napa Valley--Continued

383326122311801. Local number 8N/6W-10Q1 M.
LOCATION.--Lat 38°33'26", long 122°31'18", about 3.5 mi (5.6 km) southeast of Calistoga.
Owner: Marloff Bros.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled stock and irrigation water-table well, diameter 10 in (0.25 m), depth 184 ft (56.1 m), casing information not available.
DATUM.--Altitude of land-surface datum is 290 ft (88.4 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.1 ft (0.03 m) above land-surface datum, Mar. 20, 1967; lowest measured, 40.8 ft (12.44 m) below land-surface datum, Sept. 14, 1950.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	8.4	MAR. 11, 1977	6.0				

Siskiyou County

Butte Valley

415105121545901. Local number 46N/1E-6N1 M.
LOCATION.--Lat 41°51'05", long 121°54'59", about 4 mi (6 km) east-northeast of Macdoel.
Owner: Leo Luzzi.
AQUIFER.--Lake deposits.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 18 in (45.7 cm), depth 200 ft (61 m), casing information not available.
DATUM.--Altitude of land-surface datum is 4,242.0 ft (1,292.96 m), previously reported, 4,242.4 ft (1,293.08 m), above mean sea level. Measuring point: Top of concrete base, east side, 1.0 ft (0.30 m) above land-surface datum.
REMARKS.--Measurements after Mar. 3, 1966, by California Department of Water Resources, and U.S. Bureau of Reclamation.
PERIOD OF RECORD.--1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.03 ft (4.89 m) below land-surface datum, Sept. 17, 1964; lowest, 43.3 ft (13.20 m) below land-surface datum, June 6, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1976	24.5	MAR. 29, 1977	21.0				

415523121563801. Local number 47N/1W-14B1 M.
LOCATION.--Lat 41°55'23", long 121°56'38", about 3.4 mi (5.5 km) southwest of Dorris.
Owner: U.S. Department of Interior, Bureau of Reclamation.
AQUIFER.--Lake deposits.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in (5.1 cm), depth 50 ft (15.2 m), casing information not available.
DATUM.--Altitude of land-surface datum, 4,233.7 ft (1,290.4 m) above mean sea level.
REMARKS.--Measurements after Mar. 3, 1966, by California Department of Water Resources, and U.S. Bureau of Reclamation.
PERIOD OF RECORD.--1951-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.1 ft (1.86 m) below land-surface datum, June 3, 1974; lowest, 18.5 ft (5.6 m) below land-surface datum, Nov. 26, 1951.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 6, 1977	8.1	JULY 20, 1977	N	AUG. 16, 1977	N	SEP. 15, 1977	N
JUNE 13	10.2						

N No measurement.

Siskiyou County--Continued

Scott Valley

412722122522501. Local number 42N/9W-27N1 M.
LOCATION.--Lat 41°27'22", long 122°52'25", about 1 mi (2 km) east of Etna.
Owner: J. Starr.
AQUIFER.--Alluvium (previously reported younger alluvium) of Quaternary age.
WELL CHARACTERISTICS.--Dug unused water-table well, size 5 x 5 ft (1.5 x 1.5 m), depth, 19 ft (5.8 m), casing information not available.
DATUM.--Altitude of land-surface datum, 2,930 ft (893.1 m) above mean sea level. Measuring point: Top of old pump base, 2.0 ft (0.61 m) above land-surface datum.
REMARKS.--Measurements after Mar. 4, 1966, by California Department of Water Resources.
PERIOD OF RECORD.--1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.84 ft (0.26 m) below land-surface datum, May 22, 1963; lowest, 9.8 ft (3.0 m) below land-surface datum, Sept. 23, 1959.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1976	8.7	MAR. 29, 1977	6.3				

413746122532401. Local number 44N/9W-28P1 M.
LOCATION.--Lat 41°37'46", long 122°53'24", about 3 mi (5 km) northeast of Ft. Jones.
Owner: R. H. Dilley.
AQUIFER.--Alluvium (previously reported younger alluvium) of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (20.3 cm), depth 65 ft (19.8 m), casing information not available.
DATUM.--Altitude of land-surface datum is 2,711 ft (826.3 m) above mean sea level. Measuring point: Top of casing, 0.5 ft (0.15 m) above land-surface datum.
REMARKS.--Measurements after Mar. 4, 1966, by California Department of Water Resources.
PERIOD OF RECORD.--1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.0 ft (0.91 m) below land-surface datum, Apr. 10, 1974; lowest, 26.7 ft (8.14 m) below land-surface datum, Dec. 17, 1959, Jan. 28, 1960.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1976	25.5	MAR. 29, 1977	16.9				

Shasta Valley

412955122310501. Local number 42N/6W-10J1 M.
LOCATION.--Lat 41°29'55", long 122°31'05", about 8 mi (13 km) northwest of Weed.
Owner: G. G. Maxwell.
AQUIFER.--Pyroclastics.
WELL CHARACTERISTICS.--Drilled domestic water-table well, diameter 6 in (15.24 cm), depth 110 ft (33.5 m), casing information not available.
DATUM.--Altitude of land-surface datum is 2,835 ft (864.1 m) above mean sea level. Measuring point: Top of casing, 0.3 ft (0.09 m) above land-surface datum.
REMARKS.--Measurements after Mar. 4, 1966, by California Department of Water Resources.
PERIOD OF RECORD.--1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.42 ft (0.43 m) below land-surface datum, Apr. 27, 1962; lowest, 15.9 ft (4.85 m) below land-surface datum, Sept. 21, 1960.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1976	13.7	MAR. 30, 1977	8.7				

413710122235601. Local number 44N/5W-34H1 M.
LOCATION.--Lat 41°37'10", long 122°23'56", about 1.8 mi (2.9 km) north of Big Springs.
Owner: Henry Silva.
AQUIFER.--Plutos Cave Basalt of Holocene age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (40.64 cm), depth, 96 ft (29.3 m), casing information not available.
DATUM.--Altitude of land-surface datum is 2,637 ft (803.8 m) above mean sea level. Measuring point: Pump base, north side, at land-surface datum.
REMARKS.--Measurements after Mar. 4, 1966, by California Department of Water Resources.
PERIOD OF RECORD.--1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.46 ft (7.15 m) below land-surface datum, Sept. 28, 1961; lowest, 32.6 ft (9.94 m) below land-surface datum, Apr. 28, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1976	32.0	MAR. 30, 1977	A				

A Well being pumped.

Sonoma County

Cloverdale Area

384717123004801. Local number 11N/10W-19F2 M.
LOCATION.--Lat 38°47'17", long 123°00'48", about 1 mi (2 km) south of Cloverdale.
Owner: California Division of Forestry.
AQUIFER.--Franciscan Formation of Late Jurassic to Late Cretaceous age, and Knoxville Formation of Late Jurassic age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (0.20 m), depth 160 ft (48.8 m), cased to 135 ft (41.1 m), perforated 116-135 ft (35.4-41.1 m).
DATUM.--Altitude of land-surface datum is 346 ft (105.5 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1952-55, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.55 ft (0.168 m) below land-surface datum, Apr. 17, 1963; lowest measured, 17.32 ft (5.279 m) below land-surface datum, Sept. 15, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1976	9.3	MAR. 10, 1977	6.6				

Healdsburg Area

383535122521301. Local number 9N/9W-28N1 M.
LOCATION.--Lat 38°35'35", long 122°52'13", about 1 mi (2 km) south of Healdsburg.
Owner: G. P. Brown.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 10 in (0.25 m), depth 53 ft (16.2 m), casing information not available.
DATUM.--Altitude of land-surface datum is 90 ft (27.4 m).
PERIOD OF RECORD.--Water years 1953-54, 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.6 ft (2.32 m) below land-surface datum, Feb. 9, 1960; lowest measured, 29.94 ft (9.120 m) below land-surface datum, Sept. 29, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 29, 1977	20.42	SEP. 29, 1977	29.94				

Santa Rosa-Petaluma Area

382229122473101. Local number 6N/8W-7P2 M.
LOCATION.--Lat 38°22'29", long 122°47'31", about 5 mi (8 km) southwest of Santa Rosa.
Owner: Joseph Kardohely.
AQUIFER.--Merced Formation of Pliocene age.
WELL CHARACTERISTICS.--Drilled domestic and irrigation water-table well, diameter 8 in (0.20 m), depth 120 ft (36.6 m), casing information not available.
DATUM.--Altitude of land-surface datum is 95 ft (29.0 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1945, 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.6 ft (3.23 m) below land-surface datum, Mar. 22, 1950; lowest measured, 49.0 ft (14.94 m) below land-surface datum, Oct. 8, 1970.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 6, 1976	26.7	APR. 26, 1977	23.7	JUNE 28, 1977	34.2	AUG. 24, 1977	34.7
MAR. 16, 1977	25.4 A	MAY 24	25.4	JULY 28	33.1	SEP. 29	38.9 B
MAR. 29	24.4 A						

Sonoma Valley

381700122261401. Local number 5N/5W-17C1 M.
LOCATION.--Lat 38°17'00", long 122°26'14", about 0.5 mi (0.8 km) north of Vineburg.
Owner: Virginia Raab.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled domestic water-table well, diameter 6 in (0.15 m), depth 64 ft (19.5 m), casing information not available.
DATUM.--Altitude of land-surface datum is 85 ft (25.9 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.9 ft (2.71 m) below land-surface datum, Mar. 20, 1973; lowest measured, 28.0 ft (8.53 m) below land-surface datum, Oct. 23, 1967.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1976	16.3	MAR. 14, 1977	20.7				

A Well being pumped.
B Well pumped recently.

Sonoma County--Continued

Sonoma Valley--Continued

381452122264801. Local number 5N/5W-29N1 M.
LOCATION.--Lat 38°14'52", long 122°26'48", about 2.8 mi (4.5 km) south of Sonoma.
Owner: Moll.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 10 in (0.25 m), depth 100 ft (30.5 m), casing information not available.
DATUM.--Altitude of land-surface datum is 16 ft (4.9 m).
COOPERATION.--Measurements were furnished by California Department of Water Resources.
PERIOD OF RECORD.--Water years 1951 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.0 ft (0.30 m) below land-surface datum, Apr. 24, 1967; lowest measured, 19.60 ft (5.974 m) below land-surface datum, Jan. 2, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1976	15.6	MAR. 14, 1977	13.2				

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

ALAMEDA CREEK BASIN

Livermore-Amador Valley
Alameda County

STATION NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
373734121525901	37 37 34	121 52 59	01	003S001E32K02M	112LVRM	76-10-12	1100	1520	7.0
						77-01-06	0830	1580	6.7
						77-04-07	0900	1600	6.9
373840121532901	37 38 40	121 53 29	01	003S001E29E03M	110ALVM	76-10-12	1300	1560	6.9
						77-01-06	1200	1780	7.0
						77-04-07	1000	1790	6.8
						77-08-17	1300	1490	7.0
374027121462601	37 40 27	121 46 26	01	003S002E17G01M	111ALVM	77-01-07	1200	764	7.1
						77-04-08	1100	785	7.0
						77-08-15	1200	735	7.0
374102121493201	37 41 02	121 49 32	01	003S001E11J01M	110ALVM	76-10-12	1600	1040	6.8
						77-01-07	0800	1050	7.0
						77-04-07	1400	1260	6.9
						77-08-18	1500	1050	--
374105121521301	37 41 05	121 52 13	01	003S001E09L02M	110ALVM	76-10-12	1400	1590	6.8
						77-01-06	1300	1640	7.0
						77-04-07	1200	1680	6.9
374112121485001	37 41 12	121 48 50	01	003S001E12F01M	110ALVM	76-10-13	1000	957	7.1
						77-01-07	1000	1000	7.1
						77-04-08	0900	1020	7.2
						77-08-15	0900	783	6.8

DATE OF SAMPLE	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
76-10-12	17.0	15	640	--	130	76	--	--	--	--	--	--
77-01-06	16.5	19	650	260	130	79	83	22	1.4	3.6	470	380
77-04-07	17.0	15	--	--	--	--	--	--	--	--	--	--
76-10-12	17.0	15	580	--	130	61	--	--	--	--	--	--
77-01-06	17.0	21	590	110	130	65	140	34	2.5	2.5	580	480
77-04-07	17.0	11	--	--	--	--	--	--	--	--	--	--
77-08-17	18.0	--	--	--	--	--	--	--	--	--	--	--
77-01-07	19.0	14	340	53	47	54	32	17	.8	1.8	350	290
77-04-08	19.0	--	--	--	--	--	--	--	--	--	--	--
77-08-15	19.0	--	--	--	--	--	--	--	--	--	--	--
76-10-12	17.0	15	490	--	65	79	--	--	--	--	--	--
77-01-07	17.0	18	460	150	61	75	38	15	.8	1.9	380	310
77-04-07	17.0	7	--	--	--	--	--	--	--	--	--	--
77-08-18	17.0	--	--	--	--	--	--	--	--	--	--	--
76-10-12	17.0	11	560	--	97	78	--	--	--	--	--	--
77-01-06	16.0	28	550	120	91	78	140	36	2.6	3.0	520	430
77-04-07	17.0	10	--	--	--	--	--	--	--	--	--	--
76-10-13	17.5	8	420	--	54	70	--	--	--	--	--	--
77-01-07	17.0	17	430	85	55	70	50	20	1.1	1.9	420	340
77-04-08	17.5	4	--	--	--	--	--	--	--	--	--	--
77-08-15	17.5	--	--	--	--	--	--	--	--	--	--	--

Geological unit (aquifer):

110ALVM - Alluvium, Quaternary age.
111ALVM - Alluvium, Holocene age.
112LVRM - Livermore Gravel, Pleistocene and Holocene age.
Chemical-quality samples collected by Alameda County Flood Control and Water Conservation Dist.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

ALAMEDA CREEK BASIN
Livermore-Amador Valley--Continued
Alameda County--Continued

DATE OF SAMPLE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
76-10-12	--	270	.3	--	899	--	--	.04	.00	.04	.01	--
77-01-06	92	270	.2	29	918	921	1.25	.02	.00	.02	.01	--
77-04-07	--	260	.2	--	916	--	1.25	.06	.00	.06	.06	0
76-10-12	--	230	.1	--	927	--	--	.27	.00	.27	.03	--
77-01-06	64	270	.1	27	1010	988	1.37	.11	.00	.11	.05	--
77-04-07	--	270	.1	--	991	--	1.35	.15	.00	.15	.02	0
77-08-17	--	--	--	--	926	--	--	.11	--	--	--	--
77-01-07	49	39	.1	33	450	454	.61	5.7	.01	5.7	.06	--
77-04-08	--	39	.1	--	434	--	.59	5.7	.00	5.7	.06	0
77-08-15	--	--	--	--	420	--	--	5.2	--	--	--	--
76-10-12	--	120	.1	--	595	--	.81	9.0	.00	9.0	.08	--
77-01-07	46	120	.1	27	599	595	.81	8.6	.00	8.6	.07	--
77-04-07	--	140	.2	--	730	--	--	10	.00	10	.05	0
77-08-18	--	--	--	--	678	--	--	8.8	--	--	--	--
76-10-12	--	250	.1	--	939	--	--	6.5	.00	6.5	.04	--
77-01-06	88	220	.2	25	933	932	1.27	6.6	.01	6.6	.04	--
77-04-07	--	220	.1	--	942	--	--	6.4	.00	6.4	.02	0
76-10-13	--	75	.1	--	538	--	--	10	.00	10	.06	--
77-01-07	45	81	.1	27	571	582	.78	10	.00	10	.07	--
77-04-08	--	81	.1	--	556	--	--	9.4	.00	9.4	.04	0
77-08-15	--	--	--	--	460	--	--	6.1	--	--	--	--

DATE OF SAMPLE	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
76-10-12	--	2200	--	--	--	--	--	--	--	--	--
77-01-06	--	1500	--	--	--	2100	--	--	--	--	--
77-04-07	1100	2200	1	0	0	3800	0	.0	0	0	20
76-10-12	--	1800	--	--	--	--	--	--	--	--	--
77-01-06	--	3000	--	--	--	190	--	--	--	--	--
77-04-07	400	3200	<10	10	<10	100	<100	.0	0	<10	30
77-08-17	--	--	--	--	--	--	--	--	--	--	--
77-01-07	--	360	--	--	--	140	--	--	--	--	--
77-04-08	300	350	<10	10	10	50	<100	.0	1	<10	40
77-08-15	--	--	--	--	--	--	--	--	--	--	--
76-10-12	--	350	--	--	--	--	--	--	--	--	--
77-01-07	--	330	--	--	--	50	--	--	--	--	--
77-04-07	500	410	<10	20	<10	100	<100	.0	1	<10	20
77-08-18	--	--	--	--	--	--	--	--	--	--	--
76-10-12	--	1800	--	--	--	--	--	--	--	--	--
77-01-06	--	1900	--	--	--	50	--	--	--	--	--
77-04-07	400	1800	<10	10	<10	50	<100	.0	10	<10	20
76-10-13	--	460	--	--	--	--	--	--	--	--	--
77-01-07	--	470	--	--	--	40	--	--	--	--	--
77-04-08	400	460	<10	20	<10	50	<100	.0	1	<10	20
77-08-15	--	--	--	--	--	--	--	--	--	--	--

Niles Cone
Alameda County--Continued

STATION NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
373349121585701	37 33 49	121 58 57	01	004S001W28D09M	111ALVF	77-01-26	1420	684	7.2
						77-04-27	1455	696	8.2
						77-09-21	1410	684	7.8
373355121583801	37 33 55	121 58 38	01	004S001W21P06M	111ALVF	76-10-21	1410	632	8.4
						77-01-26	1410	714	7.5
						77-06-22	1350	--	7.6
						77-07-27	1410	746	7.9
373357121591401	37 33 57	121 59 14	01	004S001W20R02M	111ALVF	76-10-21	1430	632	7.8
						77-01-26	1440	649	7.0
						77-06-22	1430	777	7.4
						77-07-27	1500	791	7.5
373424121584501	37 34 24	121 58 45	01	004S001W21F01M	111ALVF	76-10-21	1335	666	--
						77-04-27	1410	927	7.9
						77-06-22	1325	--	7.1
						77-07-27	1345	986	7.3

Geological unit (aquifer):
111ALVF - Alluvial Fan Deposits, Holocene age.
Chemical-quality samples collected by Alameda County Water District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

ALAMEDA CREEK BASIN
Niles Cone--Continued
Alameda County--Continued

DATE OF SAMPLE	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	HARDNESS (CA+MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
77-01-26	17.0	5	220	--	50	23	--	--	--	--
77-04-27	17.5	8	200	--	47	21	--	--	--	--
77-09-21	18.5	--	230	88	53	23	57	35	1.6	1.8
76-10-21	18.0	7	240	--	55	24	--	--	--	--
77-01-26	16.5	8	240	--	56	25	--	--	--	--
77-06-22	22.0	7	280	--	68	27	--	--	--	--
77-07-27	19.0	--	280	87	66	27	53	29	1.4	2.0
76-10-21	18.0	6	190	--	43	19	--	--	--	--
77-01-26	17.0	6	180	--	41	19	--	--	--	--
77-06-22	20.0	6	220	--	51	22	--	--	--	--
77-07-27	19.0	--	240	130	55	24	71	39	2.0	2.1
76-10-21	20.0	6	190	--	45	20	--	--	--	--
77-04-27	19.0	3	270	--	62	28	--	--	--	--
77-06-22	21.0	6	280	--	65	28	--	--	--	--
77-07-27	19.0	--	310	150	74	30	80	36	2.0	3.0

DATE OF SAMPLE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
77-01-26	--	--	--	--	79	--	--	407	--	--	2.4	.00
77-04-27	--	--	--	--	90	--	--	398	--	--	2.3	.00
77-09-21	170	0	140	68	93	.2	15	411	406	.56	2.5	.00
76-10-21	--	--	--	--	62	--	--	377	--	--	--	--
77-01-26	--	--	--	--	74	--	--	403	--	--	2.0	.00
77-06-22	--	--	--	--	110	--	--	475	--	--	3.4	.00
77-07-27	230	0	190	65	93	.2	16	464	445	.63	2.0	.00
76-10-21	--	--	--	--	80	--	--	352	--	--	--	--
77-01-26	--	--	--	--	86	--	--	343	--	--	1.4	.00
77-06-22	--	--	--	--	130	--	--	438	--	--	2.8	.00
77-07-27	130	0	110	74	140	.2	13	476	457	.65	2.8	.00
76-10-21	--	--	--	--	86	--	--	379	--	--	--	--
77-04-27	--	--	--	--	160	--	--	570	--	--	5.6	.00
77-06-22	--	--	--	--	150	--	--	556	--	--	5.2	.01
77-07-27	190	0	160	82	160	.2	15	623	563	.85	5.9	.00

DATE OF SAMPLE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)
77-01-26	2.4	--	--	--	--	--	--	--	--	--	--	--
77-04-27	2.3	--	--	--	--	--	--	--	--	--	--	--
77-09-21	2.5	2.5	0	0	450	<10	10	20	20	<100	.0	0
76-10-21	2.0	--	--	--	--	--	--	--	--	--	--	--
77-01-26	2.0	--	--	--	--	--	--	--	--	--	--	--
77-06-22	3.4	--	--	--	--	--	--	--	--	--	--	--
77-07-27	2.0	2.1	0	400	500	<10	0	10	10	<100	.0	0
76-10-21	1.8	--	--	--	--	--	--	--	--	--	--	--
77-01-26	1.4	--	--	--	--	--	--	--	--	--	--	--
77-06-22	2.8	--	--	--	--	--	--	--	--	--	--	--
77-07-27	2.8	2.9	0	400	450	10	0	10	20	<100	.0	0
76-10-21	2.5	--	--	--	--	--	--	--	--	--	--	--
77-04-27	5.6	--	--	--	--	--	--	--	--	--	--	--
77-06-22	5.2	--	--	--	--	--	--	--	--	--	--	--
77-07-27	5.5	5.6	0	400	460	10	0	20	10	<100	.0	0

ALAMEDA CREEK BASIN
Niles Cone--Continued
Alameda County--Continued

DATE OF SAMPLE	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
77-01-26	--	--	--
77-04-27	--	--	--
77-09-21	<10	80	.7
76-10-21	--	--	--
77-01-26	--	--	--
77-06-22	--	--	--
77-07-27	<10	10	.7
76-10-21	--	--	--
77-01-26	--	--	--
77-06-22	--	--	--
77-07-27	<10	20	1.5
76-10-21	--	--	--
77-04-27	--	--	--
77-06-22	--	--	--
77-07-27	<10	30	1.6

RUSSIAN RIVER BASIN

DRY CREEK
Sonoma County

STATION	NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
383104122523001		38 31 04	122 52 30	01	008N009W20R01M	111ALVM	77-01-04	1400	258	6.9
							77-03-17	1000	302	6.8
							77-05-17	1130	322	7.8
							77-09-29	0900	311	7.8
383310122511801		38 33 10	122 51 18	01	008N009W09J01M	111ALVM	77-03-29	0930	324	6.9
							77-09-29	0935	343	6.9
383536122520401		38 35 36	122 52 04	01	009N009W28N02M	111ALVM	77-03-29	1025	358	7.0
							77-09-29	1020	380	7.1
383655122530702		38 36 55	122 53 07	02	009N009W20E03M	111ALVM	77-01-04	1110	232	6.9
							77-03-17	1150	243	6.6
							77-05-17	1130	245	7.4
							77-09-29	1055	276	7.3
383958122554801		38 39 58	122 55 48	01	010N010W35R01M	111ALVM	77-03-29	1225	130	6.6
							77-09-29	1135	136	6.2
384221122574401		38 42 21	122 57 44	01	010N010W22D02M	111ALVM	77-03-29	1255	269	7.1
							77-09-29	1220	309	7.0

DATE OF SAMPLE	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
77-01-04	13.0	1	130	7	25	16	8.5	13	.3	.8	150	0
77-03-17	16.0	1	150	19	27	19	9.1	12	.3	.9	160	0
77-05-17	23.0	0	150	12	31	18	12	15	.4	1.4	170	0
77-09-29	22.0	0	150	7	29	18	11	14	.4	1.1	170	0
77-03-29	16.5	1	170	0	34	21	9.0	10	.3	1.3	210	0
77-09-29	18.0	1	170	18	35	21	8.0	9	.3	1.2	190	0
77-03-29	13.5	1	180	0	24	28	13	14	.4	.7	220	0
77-09-29	17.0	2	180	7	24	29	13	14	.4	.6	210	0
77-01-04	12.0	6	110	0	18	15	12	20	.5	.6	150	0
77-03-17	13.5	4	110	0	18	15	12	20	.5	.6	150	0
77-05-17	15.0	2	110	0	18	16	13	20	.5	.8	150	0
77-09-29	17.0	2	120	0	20	17	13	19	.5	.6	150	0
77-03-29	12.5	2	45	12	8.9	5.5	7.8	27	.5	.4	40	0
77-09-29	18.5	2	54	18	12	5.8	7.7	24	.5	.4	44	0
77-03-29	12.5	7	120	0	24	15	14	20	.6	.8	150	0
77-09-29	20.0	5	130	0	24	17	15	20	.6	.7	160	0

Geological unit (aquifer):
111ALVM - Alluvium, Holocene age.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RUSSIAN RIVER BASIN
DRY CREEK--Continued
Sonoma County--Continued

DATE OF SAMPLE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)
77-01-04	120	12	6.3	.1	13	157	.21	.12	2	420	0	0
77-03-17	130	19	7.2	.1	15	178	.25	.27	0	410	0	0
77-05-17	140	19	9.2	.2	14	189	--	--	0	500	1	0
77-09-29	140	13	7.7	.1	17	182	.25	.13	0	600	0	0
77-03-29	170	18	5.5	.1	22	217	.29	.44	--	260	--	--
77-09-29	160	13	6.1	.1	23	203	.28	.38	--	290	--	--
77-03-29	180	19	7.5	.1	26	230	.31	.71	--	150	--	--
77-09-29	170	18	7.8	.2	26	225	.32	.60	--	150	--	--
77-01-04	120	3.4	5.5	.1	25	154	.21	.02	2	250	0	0
77-03-17	120	6.1	5.7	.2	22	154	.21	.07	0	250	0	0
77-05-17	120	4.6	7.3	.2	22	157	--	.10	0	200	0	10
77-09-29	120	7.9	6.2	.1	25	164	.22	.00	0	260	0	0
77-03-29	33	12	6.1	.1	22	95	.13	2.7	--	20	--	--
77-09-29	36	10	6.4	.2	24	100	.14	2.7	--	20	--	--
77-03-29	120	19	6.4	.1	23	178	.24	.26	--	250	--	--
77-09-29	130	22	6.7	.2	23	189	.26	.17	--	300	--	--

DATE OF SAMPLE	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
77-01-04	5	20	0	.6	10	.5
77-03-17	3	10	0	.0	20	.2
77-05-17	3	30	3	.0	8	.3
77-09-29	1	40	0	.0	20	.5
77-03-29	--	30	--	--	--	.4
77-09-29	--	40	--	--	--	.3
77-03-29	--	30	--	--	--	.2
77-09-29	--	50	--	--	--	.4
77-01-04	0	130	1	.4	300	.3
77-03-17	0	50	0	.0	270	.2
77-05-17	0	50	3	.0	180	.3
77-09-29	0	60	1	.0	130	.4
77-03-29	--	50	--	--	--	.4
77-09-29	--	70	--	--	--	.3
77-03-29	--	20	--	--	--	.3
77-09-29	--	50	--	--	--	.3

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FACTORS FOR CONVERTING U.S. CUSTOMARY UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the U.S. customary units published herein to the International System of Units (SI). Subsequent reports will contain both the U.S. customary and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply U.S. customary units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
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)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

U.S. DEPARTMENT OF THE INTERIOR
Geological Survey
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10 days